15th INTERNATIONAL CONFERENCE on RENEWABLE ENERGY RESEARCH and APPLICATIONS

(ICRERA 2026)



Paris/France

ICRERA2026, October 12-15, 2026

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GENERAL INFORMATION

Conference	15th International Conference on Renewable Energy Research and Applications (ICRERA 2026)
Dates	October 12-15, 2026
Tutorials	October 12, 2026 (one day before the opening ceremony)
City / Country	Créteil, Paris — France
Venue	Monday, October 12: Euro Hotel Paris Creteil Tuesday, October 13: FIAP
Venue address	Euro Hotel Paris Creteil: 12 Rue Fernand Pouillon, 94000 Créteil, France FIAP: 30 Rue Cabanis, 75014 Paris, France
Welcome Party	Monday, October 12, 2026, 17:30-19:30 — Euro Hotel Paris Creteil, 12 Rue Fernand Pouillon, 94000 Créteil, France
Gala Dinner	Wednesday, October 14, 2026, 19:00-22:00 — Angelina Rivoli, 226 Rue de Rivoli, 75001 Paris, France
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E-mail	icrera@gmail.com
Paper submission	https://cmt3.research.microsoft.com/ICRERA2026

ICRERA 2026 is held at two venues: the Euro Hotel Paris Creteil in Créteil on Monday, October 12, and the FIAP in Paris on Tuesday, October 13.

IMPORTANT DEADLINES

3 to 5 Pages Long Digest Submission Deadline	**September 01, 2026**
Notification of Acceptance	**September 20, 2026**
Final Submissions Due	**September 25, 2026**
Conference	**October 12-15, 2026**

PAPER SUBMISSION

Long Digest Submission: IEEE format, around 3 to 5 pages, single column, including figures and references.

Selected papers will be proposed for possible publication in the following journals:

- IEEE Transactions on Industry Applications (SCI-Expanded)
- International Journal of Renewable Energy Research – IJRER (ESCI)
- International Journal of Smart Grid – ijSmartGrid (Scopus, Google Scholar)
- International Journal of Artificial Intelligence Research and Applications – IJAIRA (Google Scholar)
- International Journal of Digitalization – IJDIGIT (Google Scholar)
- International Journal of Environmental, Social and Economic Sustainability – IJESES (Google Scholar)

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TOPICS

The coverage of the Conference on Renewable Energy Research and Applications includes the following areas, but is not limited to:

- Renewable (Green) Energy Systems and Sources (RESSs) such as Wind Power, Hydropower, Solar Energy, Biomass, Biofuel, Geothermal Energy, Wave Energy, Tidal Energy, Hydrogen & Fuel Cells, Energy Storage
- New Trends and Technologies for RESSs
- Policies and Strategies for RESSs
- Energy Transformation from Renewable Energy Systems (RES) to Grid
- Novel Energy Conversion Studies for RESs
- Power Devices and Driving Circuits for RESs
- Control Techniques for RESs
- Grid Interactive Systems Used in Hybrid RESs
- Performance Analysis of RESs
- Hybrid RESSs
- Decision Support Systems for RESSs
- Renewable Energy Research and Applications for Industries
- RESSs for Electrical Vehicles and Components
- Artificial Intelligence and Machine Learning Studies for RESs and Applications
- Computational Methods for RESSs
- Energy Savings for Power Electronics, Vehicular Technology, Electric Machinery and Control, etc.
- New Approaches in Lightings
- Public Awareness and Education for Renewable Energy and Systems
- Reliability and Maintenance in RESSs
- Smart Grids and RESSs
- Safety and Security of RESSs
- Renewable Energy Systems in Smart Cities
- Future Challenges and Directions for RESSs
- IoT for RESSs
- Energy Management, VPP (Virtual Power Plant) and ERAB (Energy Resource Aggregation Businesses) for RESSs
- Model Based Design and Digital Twin for RESSs

LANGUAGE

The working language of the ICRERA 2026 conference is English.

WELCOME to ICRERA 2026

Dear Colleague,

The purpose of the International Conference on Renewable Energy Research and Applications (ICRERA 2026) is to bring together researchers, engineers, manufacturers, practitioners and customers from all over the world to share and discuss advances and developments in renewable energy research and applications.

After the successes of the previous editions of ICRERA in Nagasaki (2012), Madrid (2013), Milwaukee (2014), Palermo (2015), Birmingham (2016), San Diego (2017), Paris (2018), Brasov (2019), Glasgow (2020), Istanbul (2021), Istanbul (2022), Oshawa (2023), Nagasaki (2024) and Vienna (2025), the fifteenth International Conference on Renewable Energy Research and Applications is being organised in Paris, France, on October 12-15, 2026, with the technical co-sponsorship of IEEE IES and IAS. Attending ICRERA 2026 will benefit you to meet well-known expert keynote speakers, tutorial organisers and special session organisers, as well as young researchers and many other colleagues coming from more than 60 countries.

ICRERA will continue promoting and disseminating the knowledge concerning several topics and technologies related to renewable energy systems and sources. It is therefore intended to assist researchers, scientists, manufacturers, companies, communities, agencies, associations and societies to keep abreast of new developments in their specialties and to unite in finding alternative energy solutions to current issues such as the greenhouse effect, sustainability and clean energy challenges.

It is our happiness to share with you that 137 selected papers out of 310 papers presented at ICRERA 2025 have been proposed for possible publication in IEEE Transactions on Industry Applications (34 papers, indexed in SCI-Expanded), the International Journal of Renewable Energy Research (37 papers, indexed in ESCI), the International Journal of Smart Grid (37 papers, indexed in Scopus and Google Scholar) and the International Journal of Artificial Intelligence Research and Applications (29 papers, cited in Google Scholar). Up to 2025, all papers presented at ICRERA have been indexed in IEEE Xplore, Scopus and Web of Science (Clarivate Analytics).

You will find the detailed information about this activity on the conference official website. Please visit https://icrera.org/

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KEYNOTE SPEAKERS

Keynote 1: Professor Kazuhiro Umetani, Kyushu University, Japan

Date: October 13, 2026 Tuesday, 08.30-09.10 (40 min)



Kazuhiro Umetani received the M.S. and Ph.D. degrees in geophysical fluid dynamics from Kyoto University, Japan, in 2004 and 2007, respectively, and the second Ph.D. degree in electrical engineering from Shimane University, Japan, in 2015. From 2007 to 2008, he was a Circuit Design Engineer with Toshiba Corporation. From 2008 to 2014, he was with the Power Electronics Group, DENSO Corporation. From 2014 to 2020, he was an Assistant Professor with Okayama University, Japan. From 2020 to 2021, he was an Associate Professor with Tohoku University, Japan. From 2021 to 2025, he was an Associate Professor with Okayama University, Japan. He is currently a Professor with Kyushu University, Fukuoka, Japan. His research interests include new circuit configurations in power electronics and power magnetics for applications in various industries.

Controllable Resonant Converters: A Potential Key Technology for DC Power Systems

Summary: Throughout the history of DC-DC power conversion research, resonant converters have consistently demonstrated high efficiency and compact size due to their inherent soft-switching capability. However, their commercial adoption remains limited, rarely replacing traditional topologies like buck or boost converters, primarily due to their limited controllability. Unlike conventional converters, resonant converters exhibit a highly nonlinear voltage response to operating frequency or duty cycle, which strongly depends on load conditions and hinders optimal controller design. Resolving this challenge is now crucial for future innovation. While the commercialization of next-generation power devices enables resonant converters to handle higher power at higher frequencies, modern high-power systems, such as AI datacenters, increasingly demand them to improve power density. To address this issue, this talk introduces a novel control approach that achieves linear control characteristics in resonant converters. Although some aspects of this concept have been independently explored by several research groups, its technical foundation and future vision remain poorly shared among engineers. This presentation aims to provide a comprehensive introduction to our development of highly controllable resonant converters.

Keynote 2: Professor Kan Akatsu, Yokohama National University, Japan

Date: October 13, 2026 Tuesday, 09.10-09.50 (40 min)



Kan Akatsu received B.S., M.S., and Ph.D. degrees in electrical engineering from Yokohama National University, Yokohama, Japan, in 1995, 1997 and 2000 respectively. He joined Nissan Research Center, Yokosuka, Japan, in 2000, where he contributed to the design and analysis of new concept permanent magnet machines. In 2003, he joined the Department of Electrical and Electric Engineering at Tokyo University of Agriculture and Technology, Tokyo, Japan, as an assistant professor. From 2005 to 2007, he was a JSPS Postdoctoral Fellow for Research Abroad and a visiting professor in WEMPEC (Wisconsin Electric Machines and Power Electronics Consortium), University of Wisconsin-Madison. From 2009, he was an associate professor and then a full professor at Shibaura Institute of Technology, Tokyo, Japan. Since October 2019, he has been a professor at Yokohama National University.

High Frequency (MHz), High Power (10 kW), and Long Distance (1 m) Wireless Power Transfer

Summary: Wireless power transfer (WPT) is entering a new phase in which higher power levels and longer transmission distances are increasingly required for next-generation mobility and distributed energy systems. While 85-kHz WPT technologies have already reached the stage of field demonstrations, their deployment still demands substantial infrastructure and careful alignment. To address these limitations, this keynote introduces a MHz-band WPT architecture designed to deliver 10 kW over a distance of 1 meter, aiming to significantly reduce installation constraints and expand the practical applicability of WPT in real environments.

Operating in the MHz range opens new opportunities for long-distance energy transfer due to higher resonant quality factors and more flexible coupler geometries. However, it also introduces several technical challenges that must be overcome for high-power operation. This presentation highlights two key development areas: (1) MHz high-power inverter design, including strategies to suppress ringing and ensure stable switching under large reactive currents; and (2) high-frequency transmitter/receiver coupler engineering, where skin effect, proximity effect, and parasitic components become dominant and must be carefully managed to maintain efficiency.

By addressing these challenges, MHz-band WPT can evolve into a practical and scalable solution for electric vehicles, robotics, logistics systems, and future smart infrastructure. The keynote will discuss the design principles, experimental insights, and remaining research directions toward realizing robust long-distance, high-power wireless energy transfer.

Keynote 3: Professor Xavier Guillaud, École Centrale de Lille & L2EP, Lille, France

Date: October 14, 2026 Wednesday, 09.00-10.00 (60 min)



Xavier Guillaud is Professor at École Centrale de Lille since 2002 and researcher at L2EP. He works on power converter modeling and control, HVDC systems, integration of renewable energy into power systems and stability of AC power systems.

He started his activity on HVDC in 2010 with two main topics — multiterminal DC grid (MTDC) dynamics and Modular Multilevel Converter (MMC) modeling and control — within several European projects and RTE-funded projects. Deep work on energy control in the MMC was conducted, and the principle of the virtual capacitor was introduced to improve MTDC stability.

Then grid-forming control became the central axis of his research. Several PhDs were carried out within various projects to study different aspects of this control: general principles on a simplified power converter, application to HVDC and wind turbines, and behavior under large power-system disturbances inducing current limitation. More recently, the question of power system stability under massive integration of power electronic converters has emerged as a continuation of these previous topics.

All this work has been conducted in close cooperation with the main stakeholders in power systems: transmission system operators (RTE in France, ENTSO-E, Elia), distribution system operators (Enedis), electric power producers (EDF), and HVDC manufacturers. Xavier Guillaud is a member of IEEE and Cigré, and an expert for the IEC.

Why Grid-Forming Control is Needed to Continue the Integration of Renewable Energy in Power Systems?

Summary: As power systems shift from conventional synchronous generation toward wind and solar power connected through power electronic converters, the dynamic of the grid is fundamentally changing. Indeed, the classical electromechanical behaviour that used to drive the main dynamics of a classical power system is progressively being replaced by the fundamentally different behaviour of power-electronics-based power sources, whose dynamics are fully driven by the control.

In a first step, the grid-following mode was chosen, meaning that the power sources behave mostly as synchronized current sources. With the increase of this kind of power source on the power system, this type of control reaches its limits. Nowadays, grid-forming control, behaving as a synchronized voltage source, is progressively being introduced into the power system, driven by transmission system operators.

The talk will start by recalling the fundamental dynamic characteristics of voltage sources and current sources, and will then explain the limitations of current sources. Then, the main principles of grid-forming control will be introduced, along with its main advantages — possible inertial effect, increased small-signal stability — but also its drawbacks.

Keynote 4: Professor Khaled H. Ahmed, University of Strathclyde, Glasgow, UK

Date: October 14, 2026 Wednesday, 10.10-11.10 (60 min)



Prof. Khaled Ahmed received the B.Sc. and M.Sc. degrees from Alexandria University, Egypt, in 2002 and 2004, respectively. He received the Ph.D. degree in power electronics applications from the Electronic and Electrical Engineering Department, University of Strathclyde, UK, in 2008. In 2011, he was appointed as a Lecturer in Power Electronics at the University of Aberdeen, and was promoted to Senior Lecturer in 2015. Currently, he is a Professor of power electronics and the Head of the Power Electronics, Drives, and Energy Conversion (PEDEC) research group at the University of Strathclyde, Glasgow, UK. He has over 20 years of research experience in power electronics, renewable energy integration, solar energy systems, offshore wind energy conversion systems, smart grids, DC/DC converters and HVDC.

He has won funding of £8.2 million as Primary and Co-Investigator on projects funded by EPSRC, the EU, KTP, the British Council, the Royal Society, the Carnegie Trust, the Scottish Funding Council, the Oil and Gas Technology Centre, and industry (Rolls-Royce, Scottish Power, and Scottish and Southern Energy). He has supervised 25 PhD students, and has published over 190 technical papers in refereed journals and conferences, 1 book, 1 book chapter, and a patent (PCT/GB2017/051364), with a total of 7641 citations and an h-index of 38. Two of his journal papers are rated in the top 1% of those cited in the academic field of Engineering (Web of Science).

He is a senior member of the IEEE Industrial Electronics and Power Electronics Societies, an IET Fellow, a Chartered Engineer, and a Senior Fellow of the Higher Education Academy (HEA). He serves as a Co Editor-in-Chief of the Elsevier Alexandria Engineering Journal, and as an Associate Editor of IEEE Transactions on Power Electronics, IET Generation, Transmission & Distribution and IEEE Access.

How Grid-Forming Power Converters are Solving the Stability Crisis of the Renewable Era

Summary: The global energy transition is accelerating, with wind and solar photovoltaic installations breaking records year after year. Yet beneath this promising narrative lies a deeply unsettling technical reality: our power grids were never designed to operate without synchronous machines. For over a century, grid stability has been anchored by the physical inertia of large rotating generators. This stored kinetic energy acted as a natural buffer against disturbances, buying the system precious seconds to respond and recover.

Today, that foundation is eroding. As synchronous generators are retired and replaced by converter-interfaced renewables, the grid is losing its mechanical inertia. Worse still, conventional "grid-following" converters are inherently dependent on a stable grid to function. They can inject power, but they cannot create voltage or frequency. They are followers, not leaders. We are dismantling the pillars of grid stability while adding more variable generation. The result is a looming stability crisis that threatens to slow down the clean energy transition.

This keynote presents the definitive solution: Grid-Forming (GFM) converters. Unlike grid-following converters, GFM converters operate as voltage sources. They do not follow the grid; they establish it. They can set voltage and frequency references, provide synthetic inertia, ride through disturbances, and enable black-start capabilities. In essence, they teach power electronics to behave like the synchronous machines they replace but with far greater speed, flexibility, and control. This talk will provide a comprehensive overview of grid-forming technology, covering:

- The Stability Challenge: Why grid-following inverters are insufficient for high-renewable grids, the concept of weak grids, and real-world examples of stability issues linked to declining system strength.
- GFM Principles and Control: Fundamental differences from grid-following converters, core control strategies including droop control, virtual synchronous machines (VSM), and virtual oscillator control (VOC), and how GFM converters provide synthetic inertia and fast frequency response.
- Capabilities and Benefits: Black-start capability, islanded operation, seamless mode transitions, enhanced resilience, and improved hosting capacity for renewables in weak grid areas.
- Real-World Deployment: Early adopters, pilot projects, lessons learned from field deployments in Europe and North America, and evolving grid codes.
- Challenges and the Road Ahead: Technical challenges, standardisation efforts, the role of energy storage, and research gaps.
- The Bigger Picture: How GFM technology is transforming renewables from passive participants to active grid leaders and the path to a 100% inverter-based grid.

Keynote 5: Mr. Kensuke MIYANO, Executive Officer, Vice President of Power Electronics Systems Division, TMEIC, Japan

Date: October 15, 2026 Thursday, 09.00-10.00 (60 min)



Kensuke Miyano serves as the Executive Officer and Vice President of the Power Electronics Systems Division, a role he assumed in April 2026. Miyano began his career with TMEIC Corporation in October 2003, during the formation of the joint venture between Toshiba and Mitsubishi Electric. Miyano was responsible for the design and development of motor drive systems in the Power Electronics Systems Division from 1990, and became involved in the design and development of uninterruptible power supply (UPS) systems in 2001. In October 2017, Miyano was appointed the first Plant Manager of TMEIC Industrial Systems India Private Limited. In April 2019, Miyano returned to TMEIC Corporation in Japan and was appointed Vice President of the Industrial Systems, Renewable Energy & New Technology Division. Miyano was born in Nagasaki City, Nagasaki Prefecture, and graduated from Kyushu University with a BS in Electrical Engineering. His current focus is to guide the further development and future growth of TMEIC's Power Electronics business.

Power Electronics Technology to Realize the Carbon-Neutral Society

Summary: This summer, many regions around the world have experienced record-breaking heat. The UN attributes these unprecedented temperatures to long-term global warming amplified by the El Niño phenomenon. The UN stresses the need to accelerate efforts toward carbon neutrality through measures such as renewable energy expansion and the transition to clean energy. These technologies are essential for reducing emissions and improving resilience to extreme weather.

TMEIC continues to advance power electronics technology under the concept of "PEiE: Power Electronics in Everything." This presentation introduces our latest development activities toward a carbon-neutral society, focusing on applications for large-scale industries.

The first topic is high-capacity power electronics for expanding renewable energy. Renewable energy is expected to become a primary source of electricity generation, replacing fossil-fuel-based generation. Energy storage systems will also play important roles in future energy networks. Power electronics enables grid-forming functions in renewable energy and energy storage systems and facilitates power transmission from remote renewable energy resources.

The second topic addresses green hydrogen. In fossil-fuel-dependent and hard-to-electrify sectors, switching to clean fuels, including green hydrogen, is essential. Large-scale green hydrogen production requires high-capacity power electronics compatible with future power networks. This presentation introduces recent power-electronics applications in development projects in Japan.

The third topic addresses digital networks for information and communication. Digital networks will play a key role in the dynamic management and operation of future energy networks. Today, another major trend is the rapid growth of AI, which requires large data centers with high and variable power consumption. This presentation highlights the need for secure large-scale power supply and power consumption leveling to support digital networks. Power electronics provides the necessary solutions.

The final topic introduces power electronics technologies for industrial applications. To achieve a carbon-neutral society, conventional electrification solutions are often inadequate for large-scale industries. High-capacity power electronics enables the electrification of facilities rated at tens of MW and improves energy efficiency through optimal management of MW-scale systems.

Keynote 6: Professor João Martins, NOVA School of Sciences and Technology, Universidade Nova de Lisboa & UNINOVA-CTS, Portugal

Date: October 15, 2026 Thursday, 10.10-11.10 (60 min)



Prof. Martins received his M.Sc. in 1996 and his Ph.D. in 2003 from Instituto Superior Técnico (IST), Technical University of Lisbon, Portugal. Currently he is a Full Professor at the Department of Electrical and Computer Engineering, NOVA School of Sciences and Technology, Universidade Nova de Lisboa, Portugal. João Martins is senior researcher at UNINOVA-CTS, Portugal, where he coordinates the Energy Efficiency Group and integrates the Board of Directors. He is the co-author of more than 100 scientific articles in refereed journals and books and more than 200 articles in refereed conference proceedings. João Martins is an active member in various program committees of scientific conferences and serves as an associate editor of IEEE IES Industrial Electronics Magazine, Elsevier Sustainable Cities, IET Power Electronics and Society, and Electric Power Components and Systems. He was and is involved as member and/or project coordinator in several national and international research projects. In addition, he is an evaluator of research proposals and projects for several national and European funding agencies. João Martins is a senior member of IEEE, member of CIGRE, effective member of the Engineers Association (Portugal) and founding member of the Portuguese Society for Education in Engineering (SPEE). His research interests are mainly in energy efficiency, alternative energies and power quality, intelligent and energy efficient buildings, heritage buildings, energy awareness, and smart grid renewables integration.

Enhancing Electrical Grid Robustness Against Climate Extremes

Summary: The increasing frequency and severity of climate extremes is placing unprecedented strain on the robustness of power grids worldwide. Ensuring the reliability and robustness of these critical infrastructures has become a paramount concern for utility operators, policymakers, and other stakeholders. Enhancing grid robustness against phenomena such as hurricanes, floods, heatwaves, and ice storms requires multifaceted strategies, including the hardening of physical infrastructure, the integration of advanced grid technologies, the implementation of robust grid management practices, and the adoption of adaptive, proactive maintenance protocols. The deployment of distributed energy resources, alongside the enhancement of microgrids and renewable energy systems, offers great potential to increase localised power stability during centralised grid failures. Real-data-based impact forecasting is a valuable tool to help Distribution System Operators better plan their long-term investments and further strengthen grid robustness against climate extremes.

TUTORIALS

Tutorials are held on October 12, 2026, one day before the opening ceremony, and are open to all registered participants. Each tutorial is given by an expert in the field and offers both the conceptual background and the practical know-how of its subject.

Speaker 1: Prof. Dr. Halil Ibrahim BULBUL, Gazi University, Ankara, Türkiye

Date: October 12, 2026 — Time: 09:00-09:40



Halil Ibrahim BULBUL is currently working as a Prof. Dr. at the Department of Computer and Instructional Technologies of Gazi Education Faculty, Gazi University. He has been teaching various graduate and undergraduate level computer courses within the department.

He received his Ph.D. degree from Ankara University, Ankara, Turkey and his M.Sc. degree from California University of PA, U.S.A., in 1997 and 1990 respectively, and his B.S. degree from Gazi University, Ankara, Turkey, in 1985.

His research interests include computer networks, computer hardware, educational technologies, e-learning, web based education, distance education, educational software design, database management systems, machine learning, data mining, information security, information security policies and standards, smart grid security, renewable energy systems, occupational standards and the vocational qualifications system.

He has published several books and various indexed articles and conference papers. He has joined and completed various projects at national and international levels supported by government and private sectors.

In addition to serving as an executive for various foundations and associations, and holding positions such as rector's advisor, dean, and department head, he has served on the organizing committees of international conferences such as ICRERA, ICSMARTGRID, ICAIRA, and ICMLA.

He is currently working as the Director of the Distance Education Center of Ahmet Yesevi University, Türkiye.

How Can We Make Computing Systems Consume Less Energy and Intelligently Adapt Their Workloads to Renewable Energy Availability?

Summary: The rapid growth of cloud computing, artificial intelligence, and data-intensive applications has significantly increased the energy consumption of computing infrastructures. Modern servers and data centers require substantial electrical power not only for computation but also for cooling, networking, storage, and supporting infrastructure. Therefore, improving the energy efficiency of computing systems has become an important challenge for both sustainable computing and renewable energy integration.

This tutorial provides a comprehensive introduction to techniques for reducing the energy consumption and environmental impact of computers, servers, and data centers. It covers energy-efficient hardware and software design, dynamic power management, virtualization and containerization, workload consolidation, energy-aware scheduling, and resource optimization.

Special attention will be given to the increasing energy requirements of artificial intelligence workloads, including GPU-based computing, AI model training, and inference. The tutorial will also demonstrate how artificial intelligence itself can be employed to predict workloads and optimize server resource allocation and energy consumption.

Finally, the tutorial introduces renewable-aware and carbon-aware computing, where computational workloads are dynamically scheduled according to renewable energy availability, electricity demand, and carbon intensity. Practical examples and case studies will demonstrate how computing workloads can be shifted in time or location to improve energy efficiency and increase the utilization of renewable energy.

The tutorial aims to provide participants with both conceptual foundations and practical approaches for designing more energy-efficient, intelligent, and sustainable computing infrastructures.

Speaker 2: Prof. V. Fernão PIRES, Polytechnic Institute of Setúbal & INESC-ID, Lisbon, Portugal

Date: October 12, 2026 — Time: 09:55-10:35



V. Fernão Pires (M'96–SM'09) received the B.S. degree in Electrical Engineering from the Instituto Superior de Engenharia de Lisboa, Portugal, in 1988, and the M.S. and Ph.D. degrees in Electrical and Computer Engineering from the Technical University of Lisbon, Portugal, in 1995 and 2000, respectively.

Since 1991, he has been a member of the teaching staff of the Electrical Engineering Department, Superior Technical School of Setúbal — Polytechnic Institute of Setúbal. He is currently a Professor teaching power electronics and control of power converters. He is also a Researcher with the Instituto de Engenharia de Sistemas e Computadores — Investigação e Desenvolvimento em Lisboa (INESC-ID).

His work has resulted in more than 300 publications. He has been a member of IEEE since 1996 and a Senior Member since 2009, and he currently serves on the IEEE IES Technical Committee on Power Electronics. He is an evaluator of research proposals for several international funding agencies.

He was the General Chair of the international conferences icSmartGrids 2021 and icSmartGrids 2024, and General Co-Chair of IEEE CPE-POWERENG 2020. He was also one of the founders of the IEEE POWERENG conference series. He has been a Program Committee and/or Track Chair member of several international conferences (IECON, ISIE, CPE, ICELIE, POWERENG, ICMLA, INTELEC, ICRERA, ICPEA, PEMC, TENSYMP, BEC, ICEEEP, SMARTGREENS, GreenCom).

DC-DC Converters Based on the Differential Connections

Summary: DC–DC converters based on differential connections have attracted increasing interest for applications requiring flexible voltage conversion, improved modularity, and enhanced power-processing capability. In these configurations, two or more converter modules are interconnected through differential input or output connections, enabling voltage and current sharing while allowing the overall system to achieve operating characteristics that are difficult to obtain with a single converter.

This presentation provides an overview of the operating principles, main topological arrangements, and control requirements of differential-connected DC–DC converters. Particular attention is given to voltage conversion ratio, power distribution between modules, semiconductor voltage stress, efficiency, dynamic response, and the influence of parameter mismatches.

A particularly relevant feature of some differential-connected configurations is the possibility of partial power processing. In this operating mode, the converter processes only a fraction of the total load power, typically corresponding to the voltage or power difference between the source and load, while the remaining power is transferred directly through an appropriate connection path. Consequently, the processed power, semiconductor ratings, conduction losses, and converter volume can be reduced compared with conventional full-power-processing architectures.

The challenges associated with balancing currents, maintaining stable operation, and coordinating the switching actions of the interconnected converters are also discussed. Finally, the advantages and limitations of these converters are discussed in terms of efficiency, voltage gain, current sharing, isolation, regulation range, and fault tolerance.

Speaker 3: Prof. Dr. Erdal IRMAK, Head of the Smart Grids Graduate Program, Gazi University, Ankara, Türkiye

Date: October 12, 2026 — Time: 10:50-11:30



Prof. Dr. Erdal Irmak, IEEE Senior Member, is a Professor of Electrical Engineering at Gazi University, Türkiye. His research interests include power system operation and control, renewable energy integration, smart grids, microgrids, energy storage systems, and the cybersecurity of critical infrastructures.

He has authored more than 170 scientific publications, most of which are indexed in the Web of Science, and has led or participated in numerous national and international research and industrial projects. His recent work focuses on smart grid control, distributed energy resources, digital twin technologies, real-time energy management, and advanced power quality monitoring systems.

Prof. Irmak serves as Editor or Associate Editor for several international journals and has held key organizational and technical roles in numerous IEEE-sponsored conferences.

He currently serves as Head of the Smart Grids Graduate Program at Gazi University and teaches undergraduate and graduate courses in Electric Power Systems, Smart Grids, and Electrical Energy Distribution.

Power System Stability and Control with Increasing Renewable Energy Integration

Summary: Power systems have evolved over more than a century from relatively small and isolated networks into large, interconnected systems designed around centralized generation and synchronous machines. Their reliable operation has traditionally relied on well-established principles of generation–demand balance, frequency regulation, voltage control, reactive power management, and system stability. However, the growing integration of renewable energy resources and power-electronic-interfaced generation is gradually changing the fundamental characteristics and dynamic behaviour of modern power systems.

This tutorial begins with the historical development, basic structure, operating principles, and key dynamics of conventional power grids, with particular emphasis on frequency and voltage stability and their associated control mechanisms.

It then explores the transition toward renewable-rich power systems and discusses the technical challenges introduced by variable generation, reduced system inertia, changing power flows, and increasing reliance on power electronic converters.

Finally, the tutorial introduces the role of smart grid technologies, advanced monitoring and control, energy storage, and flexible resources in addressing these emerging challenges and supporting the stable, reliable, and sustainable operation of future power systems.

Speaker 4: Prof. Dr. Erdal BEKIROGLU, Faculty of Technology, Department of Electrical and Electronics Engineering, Gazi University, Ankara, Türkiye

Date: October 12, 2026 — Time: 13:00-13:40



Prof. Dr. Erdal Bekiroglu completed his undergraduate studies in Electrical Education at Gazi University in 1994 and received his M.Sc. and Ph.D. degrees from the Institute of Science and Technology, Gazi University, in 1998 and 2004, respectively.

He served as a Research Assistant at Gazi University between 1996 and 2003. From 2004 to 2024, he worked as an Assistant Professor, Associate Professor, and Professor in the Department of Electrical and Electronics Engineering, Faculty of Engineering, Bolu Abant Izzet Baysal University. In February 2024, he joined Gazi University, initially with the Faculty of Engineering, Department of Software Engineering. He is currently a Professor at the Faculty of Technology, Department of Electrical and Electronics Engineering, Gazi University.

His research interests include computer-controlled systems, electrical machine drives and control, smart grids, renewable energy systems, and artificial intelligence.

He has served as Program Chair for the International Conference on Renewable Energy Research and Applications (ICRERA) and the International Conference on Smart Grid (icSmartGrid). He is a member of the Editorial Board of the International Journal of Smart Grid. Prof. Dr. Bekiroglu has published numerous journal and conference papers in his research areas.

His key qualifications include expertise in vocational and technical education, the design and management of scientific projects, and academic leadership. He has also served as Head of the Department of Electrical and Electronics Engineering and as Secretary General of Bolu Abant Izzet Baysal University.

Artificial Intelligence for Renewable Energy Systems: From Forecasting to Autonomous Operation

Summary: The rapid expansion of renewable energy is transforming modern power systems while introducing significant technical challenges associated with intermittency, uncertainty, nonlinear characteristics, changing environmental conditions, and real-time operation. Artificial Intelligence (AI) has emerged as a powerful enabling technology for addressing these challenges through improved forecasting, monitoring, fault diagnosis, optimization, control, and decision-making.

This tutorial provides a technically oriented overview of AI applications in renewable energy systems, with particular emphasis on photovoltaic (PV) and wind energy conversion systems. The evolution from conventional machine learning and deep learning toward emerging approaches such as explainable AI, edge intelligence, generative AI, and agentic AI will be introduced in the context of practical renewable energy applications.

Key AI applications in PV systems, including solar irradiance and power forecasting, PV performance prediction, maximum power point tracking (MPPT), fault and anomaly detection, condition monitoring, predictive maintenance, and AI-assisted converter control, will be presented and discussed. Similarly, major AI applications in wind energy systems, such as wind speed and power forecasting, wind turbine performance assessment, maximum power extraction, fault diagnosis, condition monitoring, predictive maintenance, and intelligent control of wind energy conversion systems, will be addressed. The role of AI in energy storage, power electronic interfaces, and coordinated renewable energy management will also be discussed.

Particular emphasis will be placed on the progression from data-driven forecasting and condition monitoring toward intelligent optimization, adaptive control, and autonomous operation. The tutorial will demonstrate how advanced AI techniques can move beyond prediction to support real-time operational decisions, optimize energy conversion, adapt control strategies to changing environmental and operating conditions, and coordinate renewable generation and storage.

Finally, key challenges including data quality and availability, model generalization, explainability, computational requirements, real-time implementation, reliability, cybersecurity, and trustworthy AI will be discussed. Future research directions toward self-monitoring, self-optimizing, adaptive, and increasingly autonomous PV and wind energy systems will be highlighted.

Speaker 5: Dr. Fabio VIOLA, Department of Electrical, Electronic and Telecommunication Engineering, University of Palermo, Italy

Date: October 12, 2026 — Time: 13:55-14:35



Dr. Fabio Viola received the "Laurea" degree in Electrical Engineering from the Università degli Studi di Palermo, Palermo, Italy, in 2002, and the Ph.D. in Electrical Engineering from the same institute in 2006.

In 2008 he joined the Department of Electrical, Electronic and Telecommunication Engineering of the University of Palermo as a researcher. He began his research in October 2002 at the same department as a Ph.D. student.

His research interests are in the field of Electromagnetic Compatibility and Energy. In particular, during his activities he has collaborated in national and international research programs on "Numerical Analysis" and "Electrical Systems for Energy".

Dr. Viola has developed research methods in various aspects of electromagnetic compatibility in industrial environments, with particular reference to the development of analytical and numerical models for the determination of the electromagnetic field and electromagnetic interference between systems. He has developed models to predict the energy production of photovoltaic systems and has also designed energy harvesting with microwatts of power. He has further developed models to study the behaviour of systems in high voltage, in AC and in DC.

He has been included in the "World's top 2% of Scientists" list since 2020, drawn up by Stanford University, in both the career and single year categories.

When Green Energy Burns: Understanding Electrical Fire Risks in Renewable Energy Systems

Summary: The rapid growth of renewable energy technologies is transforming electrical power systems toward a cleaner and more sustainable future. However, photovoltaic installations, battery energy storage systems, power electronic converters, and high-voltage DC networks introduce new electrical stresses and failure mechanisms that may increase the risk of fire.

This tutorial explores the "other side" of renewable energy generation, focusing on the mechanisms that can initiate and sustain electrical fires. Particular attention is devoted to DC arc faults, insulation degradation, connector failures, hot spots and ground faults.

Through real failure scenarios and practical examples, the tutorial discusses how electrical fires develop, why conventional protection devices may sometimes be insufficient, and how monitoring, protection, proper installation, and fault diagnosis can reduce these risks.

The objective is not to question the safety or value of renewable energy technologies, but to understand the emerging risks associated with their large-scale deployment and how electrical engineering can address them.

Speaker 6: Prof. Massimo CARUSO, Department of Engineering, University of Palermo, Italy

Date: October 12, 2026 — Time: 14:50-15:30



Massimo Caruso is currently an Associate Professor of Power Converters, Electrical Machines and Drives at the Department of Engineering, University of Palermo, Italy. In 2026, he obtained the Italian National Scientific Qualification for Full Professor in Electrical Energy Engineering. He received the M.S. degree with honors and the Ph.D. degree in Electrical Engineering from the University of Palermo in 2008 and 2012, respectively.

In 2011, he joined the MEMS Sensors and Actuators Laboratory at the University of Maryland, College Park, MD, USA, where he contributed to the development of electric micromotors, drives, and power-supply systems for biomedical microsensors aimed at in vivo bacterial biofilm detection and treatment.

Since 2012, he has been a member of the Sustainable Development and Energy Saving Laboratory (SDESLab) at the University of Palermo, where he has conducted research on power converters, electrical machines, and drives for industrial and sustainable-energy applications.

His research interests include the modeling, design, control, and experimental validation of electrical machines and drives, with particular emphasis on loss-model-based techniques for high-efficiency induction motor and permanent-magnet synchronous motor drives. His research activities also cover sensorless and fault-tolerant control, multiphase electrical machines, multilevel converters, electric mobility, smart grids, and renewable-energy applications.

He has authored or co-authored more than 120 scientific publications and serves as Associate Editor for several international journals. He has received several international paper awards and has served as a member of organizing and advisory committees for numerous international conferences. He also teaches undergraduate, graduate, and Ph.D. courses on electrical machines, drives, and electric powertrains.

Loss Model Techniques for Energy-Efficient Electrical Drives: From Fundamentals to Adaptive and System-Level Optimization

Summary: The increasing demand for energy-efficient electrical drive systems has stimulated extensive research on advanced control strategies aimed at reducing power losses while maintaining satisfactory dynamic performance. This aspect is particularly relevant in variable-speed electrical drives, which frequently operate over wide speed and load ranges where conventional control strategies do not necessarily ensure maximum efficiency.

This tutorial provides a comprehensive overview of loss minimization techniques for electrical drives, starting from the fundamental relationship between machine operating conditions, electromagnetic torque, and the main loss components. The basic principles of loss minimization are initially introduced with particular reference to induction motor drives, where the trade-off between copper and iron losses determines an optimal magnetization level for each operating condition. The discussion is then extended to permanent-magnet synchronous motor drives, highlighting how the same general loss-minimization principle can be applied to different machine topologies through the appropriate selection of the optimization variables.

The main families of efficiency optimization strategies are then introduced and compared, including Loss Model Control, Search Control, and Hybrid Control approaches. Their operating principles, advantages, limitations, computational requirements, convergence properties, and dependence on machine parameters are discussed, together with the evolution of loss minimization techniques and their integration into modern drive control systems.

Special attention is devoted to Loss Model Algorithms and to the main challenges associated with their practical implementation, including magnetic saturation, parameter uncertainties, frequency-dependent iron losses, thermal variations, and real-time computational constraints.

Finally, the tutorial presents the evolution from conventional model-based approaches toward adaptive and system-level loss minimization. Experimental studies are discussed to illustrate how the optimal operating point may change with load, speed, and machine thermal state. A self-adaptive reticular loss model approach is then introduced to dynamically refine the minimum-loss operating point while remaining suitable for implementation on low-cost embedded controllers. The analysis is finally extended beyond the electrical machine by considering power-converter losses, addressing the more general question of whether efficiency optimization should target the electrical machine alone or the complete drive system.

Speaker 7: Dr. Abdérafi CHARKI, LARIS, Polytech Angers, University of Angers, France

Date: October 12, 2026 — Time: 15:45-16:25



Abdérafi Charki, PhD, is a Professor at the University of Angers (France) in the Quality and Reliability Department of the Polytech engineering school, where he teaches industrial and systems engineering, and mechanical engineering.

His research at LARIS (Laboratory of Research in Systems Engineering) focuses on the assessment of the performance and dependability of complex systems, particularly renewable energy systems.

He coordinates the DIA-SOLAIRE project, funded by the French National Research Agency, which aims to develop artificial intelligence-based tools for the diagnosis and performance forecasting of operating photovoltaic power plants.

Time Series Analysis: Anomaly Detection, Drift Detection, and Diagnostics - Supervised and Unsupervised Approaches

Summary: Time series play a central role in monitoring energy systems, where the early detection of anomalies and drifts is essential to operational reliability. This tutorial offers a structured overview of methods for anomaly detection, concept drift detection, and diagnostics, covering both unsupervised and supervised approaches.

The unsupervised part covers statistical methods (rolling z-score, control charts, EWMA, CUSUM), distance- and density-based approaches (k-nearest neighbors, Local Outlier Factor, Dynamic Time Warping), reconstruction (PCA, Autoencoder), prediction (ARIMA/SARIMA residuals), as well as Isolation Forest and One-Class SVM. Drift detection is addressed through ADWIN, Page-Hinkley, DDM/EDDM, and KSWIN. The supervised part covers anomaly classification and the metrics adapted to strong class imbalance (precision, recall, F1, AUC-PR).

Particular attention is paid to diagnostics: temporal localization of change points (PELT) and explainability (SHAP), turning a statistical alert into actionable information for the domain expert. All concepts are illustrated and put into practice through a reproducible, hands-on notebook built around a running case study, intended for PhD students and faculty.

Speaker 8: Dr. Giuseppe Sorrentino, Department of Engineering, University of Palermo, Italy

Date: October 12, 2026 — Time: 16:40-17:20



Giuseppe Sorrentino received the M.S. and Ph.D. degrees in electrical engineering from the University of Palermo, Palermo, Italy, in 2023 and 2026, respectively.

He is currently a Postdoc Researcher with the Sustainable Development and Energy Saving Laboratory, University of Palermo. His research interests include design of novel grid-following and grid-forming control strategies for grid-connected multilevel inverters.

Enhanced Electric Grid Support by Advanced Grid-Following and Grid-Forming Strategies with LCL-filtered Cascaded H-Bridge Inverters

Summary: Inverter-Based Resources represent a key technology to achieve carbon-free electrical energy production. Since they must comply with power quality standards, they require power filters to mitigate the harmonics which propagate into the grid. However, the optimal power filter design when Multilevel Inverters are considered, i.e. choosing the lowest filter parameters, resulting in the power quality standards compliance represents an open challenge in literature.

Moreover, since the control strategy has a great impact on the output voltage harmonic spectrum, novel inverter control techniques are currently investigated in literature. In addition, in literature, new inverter control strategies are emerging, named Grid-Forming, aim to manage the active and reactive power injection to fulfill the power grid requirements and are often based on the emulation of Synchronous Generators. However, in case of a grid short circuit, since the power electronics devices can withstand an overcurrent which is way less than the one of Synchronous Generators, current limitation methods of Grid-Forming inverters during these abnormal conditions are currently under study.

Given the above, the topics investigated in this thesis aim to fill these literature gaps and are the following: Optimal LCL filter design for grid-connected Cascaded H-Bridge Multilevel Inverters; Enhancing low switching frequency performance using Finite-Control-Set Model Predictive Control for grid-connected Cascaded H-Bridge Multilevel Inverters; Enhanced ride-through method for Grid-Forming Cascaded H-Bridge Multilevel Inverters under symmetrical and asymmetrical grid faults and phase jumps.

PROGRAM SUMMARY

Program Summary of ICRERA 2026, Paris/France, October 12-15, 2026

OCTOBER 12, 2026 (MONDAY) · 169 papers · 34 sessions

09:00-10:40	Online Session-O1 5 PAPERS (5*20=100 Min) Chair: Abdelhakim Belkaid (University of Béjaïa) Chair: Reddaiah Kasturi (Sri Krishnadevaraya University)	Online Session-O2 5 PAPERS (5*20=100 Min) Chair: Fabio Viola (Palermo University) Chair: Anil Guntupalli (JNTU, Jawaharlal Nehru Technological University)	Online Session-O3 5 PAPERS (5*20=100 Min) Chair: Onder Eyecioglu (Bolu Abant Izzet Baysal Univ.) Chair: Deepika Paturu (GITAM University)	Online Session-O4 5 PAPERS (5*20=100 Min) Chair: Ramazan Bayindir (Gazi University)	Online Session-O5 5 PAPERS (5*20=100 Min) Chair: Orhan Kaplan (Gazi University)	Online Session-O6 5 PAPERS (5*20=100 Min) Chair: Nuri Alper Metin (Kirikkale University)			
10:40-10:50	COFFEE BREAK								
10:50-12:30	Online Session-O7 5 PAPERS (5*20=100 Min) Chair: Nuri Alper Metin (Kirikkale University)	Online Session-O8 5 PAPERS (5*20=100 Min) Chair: Seshendranath Balla Venkata (University of Central Missouri)	Online Session-O9 5 PAPERS (5*20=100 Min) Chair: Fabio Viola (Palermo University)	Online Session-O10 5 PAPERS (5*20=100 Min) Chair: Halil Ibrahim Bulbul (Gazi University)	Online Session-O11 5 PAPERS (5*20=100 Min) Chair: Massimo Caruso (Palermo University) Chair: Anil Guntupalli (JNTU, Jawaharlal Nehru Technological University)	Online Session-O12 5 PAPERS (5*20=100 Min) Chair: Abdelhakim Belkaid (University of Béjaïa) Chair: Deepika Paturu (GITAM University)			
12:30-12:40	COFFEE BREAK								
12:40-14:20	Online Session-O13 5 PAPERS (5*20=100 Min) Chair: Septi Belkacem (University of Batna 2) Chair: Raghavendar Nellikondi (University of the Cumberlands)	Online Session-O14 5 PAPERS (5*20=100 Min) Chair: Massimo Caruso (Palermo University) Chair: Mugunth Chandran (CSU Global)	Online Session-O15 5 PAPERS (5*20=100 Min) Chair: Reddaiah Kasturi (Sri Krishnadevaraya University)	Online Session-O16 5 PAPERS (5*20=100 Min) Chair: Omer Faruk Bay (Gazi University) Chair: Anil Guntupalli (JNTU, Jawaharlal Nehru Technological University)	Online Session-O17 5 PAPERS (5*20=100 Min) Chair: Halil Ibrahim Bulbul (Gazi University)	Online Session-O18 5 PAPERS (5*20=100 Min) Chair: Srikanth Goud B (Anurag University)			
14:20-14:30	COFFEE BREAK								
14:30-16:10	Online Session-O19 5 PAPERS (5*20=100 Min) Chair: Ipek Cetinbas (Eskisehir Osman Gazi Univ.) Chair: Raghavendar Nellikondi (University of the Cumberlands)	Online Session-O20 5 PAPERS (5*20=100 Min) Chair: Septi Belkacem (University of Batna 2) Chair: Mugunth Chandran (CSU Global)	Online Session-O21 5 PAPERS (5*20=100 Min) Chair: Srikanth Goud B (Anurag University) Chair: Seshendranath Balla Venkata (University of Central Missouri)	Online Session-O22 5 PAPERS (5*20=100 Min) Chair: Vitor Pires (ESTSetubal)	Online Session-O23 5 PAPERS (5*20=100 Min) Chair: Erdal Irmak (Gazi University)	Online Session-O24 5 PAPERS (5*20=100 Min) Chair: Erdal Bekiroglu (Gazi University)	Online Session-O25 5 PAPERS (5*20=100 Min) Chair: Mehmet Demirtas (Gazi University)		
16:10-16:20	COFFEE BREAK								
16:20-18:00	Online Session-O26 5 PAPERS (5*20=100 Min) Chair: Ipek Cetinbas (Eskisehir Osman Gazi Univ.) Chair: Raghavendar Nellikondi (University of the Cumberlands)	Online Session-O27 5 PAPERS (5*20=100 Min) Chair: Omer Faruk Bay (Gazi University) Chair: Mugunth Chandran (CSU Global)	Online Session-O28 5 PAPERS (5*20=100 Min) Chair: Fabio Viola (Palermo University) Chair: Seshendranath Balla Venkata (University of Central Missouri)	Online Session-O29 5 PAPERS (5*20=100 Min) Chair: Mehmet Demirtas (Gazi University)	Online Session-O30 5 PAPERS (5*20=100 Min) Chair: Korhan Kayisli (Gazi University)	Online Session-O31 5 PAPERS (5*20=100 Min) Chair: Erdal Bekiroglu (Gazi University)	Online Session-O32 5 PAPERS (5*20=100 Min) Chair: Halil Ibrahim Bulbul (Gazi University)	Online Session-O33 5 PAPERS (5*20=100 Min) Chair: Deepika Paturu (GITAM University)	Poster Session-P1 4 PAPERS (4*20=80 Min) Chair: Mustapha Karkri (University of Paris-Est Creteil)

OCTOBER 12, 2026 (MONDAY)		
TUTORIALS		
09:00-09:40	**TUTORIAL 1**	How Can We Make Computing Systems Consume Less Energy and Intelligently Adapt Their Workloads to Renewable Energy Availability? Prof. Dr. Halil Ibrahim BULBUL Gazi University, Ankara, Türkiye
09:40-09:55	BREAK	
09:55-10:35	**TUTORIAL 2**	DC-DC Converters Based on the Differential Connections Prof. V. Fernão PIRES Polytechnic Institute of Setúbal & INESC-ID, Lisbon, Portugal
10:35-10:50	BREAK	
10:50-11:30	**TUTORIAL 3**	Power System Stability and Control with Increasing Renewable Energy Integration Prof. Dr. Erdal IRMAK Head of the Smart Grids Graduate Program, Gazi University, Ankara, Türkiye
12:20-13:00	BREAK	
13:00-13:40	**TUTORIAL 4**	Artificial Intelligence for Renewable Energy Systems: From Forecasting to Autonomous Operation Prof. Dr. Erdal BEKIROGLU Faculty of Technology, Department of Electrical and Electronics Engineering, Gazi University, Ankara, Türkiye
13:40-13:55	BREAK	
13:55-14:35	**TUTORIAL 5**	When Green Energy Burns: Understanding Electrical Fire Risks in Renewable Energy Systems Dr. Fabio VIOLA Department of Electrical, Electronic and Telecommunication Engineering, University of Palermo, Italy
14:35-14:50	BREAK	
14:50-15:30	**TUTORIAL 6**	Loss Model Techniques for Energy-Efficient Electrical Drives: From Fundamentals to Adaptive and System-Level Optimization Prof. Massimo CARUSO Department of Engineering, University of Palermo, Italy
15:30-15:45	BREAK	
15:45-16:25	**TUTORIAL 7**	Time Series Analysis: Anomaly Detection, Drift Detection, and Diagnostics - Supervised and Unsupervised Approaches Dr. Abdérafi CHARKI LARIS, Polytech Angers, University of Angers, France
16:25-16:40	BREAK	
16:40-17:20	**TUTORIAL 8**	Enhanced Electric Grid Support by Advanced Grid-Following and Grid-Forming Strategies with LCL-filtered Cascaded H-Bridge Inverters Dr. Giuseppe Sorrentino Department of Engineering, University of Palermo, Italy
17:30-19:30	**Welcome Party (Euro Hotel Paris Creteil, 12 Rue Fernand Pouillon, 94000 Créteil, France)**	

OCTOBER 13, 2026 (TUESDAY) · 55 papers · 14 sessions			
08:00-08:30	Opening Ceremony and Speeches		
08:30-09:10	Keynote Speech-I (40 Min) Professor Kazuhiro Umetani Title: Controllable Resonant Converters: A Potential Key Technology for DC Power Systems Kyushu University, Japan Session Chair: Nobumasa Matsui (Nagasaki Institute of Applied Science)		
09:10-09:50	Keynote Speech-II (40 Min) Professor Kan Akatsu Title: High frequency (MHz), High Power (10kW), and Long Distance (1m) Wireless Power Transfer Yokohama National University, Japan Session Chair: Erdal Irmak (Gazi University)		
09:50-10:10	Industrial Session · JR East		
10:10-10:30	Industrial Session · NXTEC		
10:40-11:40	Room 1 · Face to Face Session-F1 4 PAPERS (4*15=60 Min) Chair: Erdal Bekiroglu (Gazi University)	Room 2 · Face to Face Session-F2 4 PAPERS (4*15=60 Min) Chair: Alvaro Llaria (Institute of Technology ESTIA)	
11:40-12:40	Room 1 · Face to Face Session-F3 4 PAPERS (4*15=60 Min) Chair: Massimo Caruso (Palermo University)	Room 2 · Face to Face Session-F4 4 PAPERS (4*15=60 Min) Chair: Pierre-Olivier Logerais (University of Paris-Est Creteil)	
12:40-13:10	LUNCH		
13:10-14:10	Room 1 · Face to Face Session-F5 4 PAPERS (4*15=60 Min) Chair: João Martins (Universidade Nova de Lisboa)	Room 2 · Face to Face Session-F6 4 PAPERS (4*15=60 Min) Chair: Abdérafi Charki (University of Angers)	
14:10-15:10	Room 1 · Face to Face Session-F7 4 PAPERS (4*15=60 Min) Chair: Halil Ibrahim Bulbul (Gazi University)	Room 2 · Face to Face Session-F8 4 PAPERS (4*15=60 Min) Chair: Nobumasa Matsui (Nagasaki Institute of Applied Science)	

15:10-16:10	Room 1 · Face to Face Session-F9 4 PAPERS (4*15=60 Min) Chair: Adel Nasiri (University of South Carolina)	Room 2 · Face to Face Session-F10 4 PAPERS (4*15=60 Min) Chair: Mahamadou Abdou Tankari (University of Paris Est Creteil)							
16:10-17:10	Room 1 · Face to Face Session-F11 4 PAPERS (4*15=60 Min) Chair: Armando Pires (Setúbal Polytechnic University)	Room 2 · Face to Face Session-F12 4 PAPERS (4*15=60 Min) Chair: Vitor Pires (Setúbal Polytechnic University)							
17:10-18:10	Room 1 · Face to Face Session-F13 4 PAPERS (4*15=60 Min) Chair: Fabio Viola (Palermo University)	Room 2 · Face to Face Session-F14 3 PAPERS (3*15=45 Min) Chair: Tito Amaral (Setúbal Polytechnic University)							
OCTOBER 14, 2026 (WEDNESDAY) · 74 papers · 20 sessions									
09:00-10:00	Keynote Speech-III (60 Min) Professor Xavier Guillaud Title: Why grid-forming control is needed to continue the integration of renewable energy in power systems? École Centrale de Lille, France Session Chair: Adel Nasiri (University of South Carolina)								
10:00-10:10	BREAK								
10:10-11:10	Keynote Speech-IV (60 Min) Professor Khaled H. Ahmed Title: Unlocking Stability and Control for VSC-HVDC in Ultra-Weak Grids University of Strathclyde, Glasgow, UK Session Chair: João Martins (Universidade Nova de Lisboa)								
11:10-11:20	MORNING COFFEE BREAK								
11:20-12:40	Face to Face Session-F16 4 PAPERS (4*20=80 Min) Chair: Erdal Bekiroglu (Gazi University)	Face to Face Session-F17 4 PAPERS (4*20=80 Min) Chair: Erdal Irmak (Gazi University)	Face to Face Session-F18 4 PAPERS (4*20=80 Min) Chair: Massimo Caruso (Palermo University)	Face to Face Session-F19 4 PAPERS (4*20=80 Min) Chair: Mariacristina Roscia (University of Bergamo)	Face to Face Session-F20 4 PAPERS (4*20=80 Min) Chair: João Martins (Universidade Nova de Lisboa)				
12:40-13:30	LUNCH								
13:30-14:50	Face to Face Session-F21 4 PAPERS (4*20=80 Min) Chair: Nobumasa Matsui (Nagasaki Institute of Applied Science)	Face to Face Session-F22 4 PAPERS (4*20=80 Min) Chair: Halil Ibrahim Bulbul (Gazi University)	Face to Face Session-F23 4 PAPERS (4*20=80 Min) Chair: Vitor Pires (Setúbal Polytechnic University)	Face to Face Session-F24 4 PAPERS (4*20=80 Min) Chair: Adel Nasiri (University of South Carolina)	Face to Face Session-F25 4 PAPERS (4*20=80 Min) Chair: Mustapha Karkri (University of Paris-Est Creteil)				
14:50-15:30	BREAK								

15:30-15:40	AFTERNOON COFFEE BREAK								
15:40-17:00	Face to Face Session-F26 4 PAPERS (4*20=80 Min) Chair: Fabio Viola (Palermo University)	Face to Face Session-F27 4 PAPERS (4*20=80 Min) Chair: Erdal Bekiroglu (Gazi University)	Face to Face Session-F28 3 PAPERS (3*20=60 Min) Chair: Armando Pires (Setúbal Polytechnic University)	Face to Face Session-F29 4 PAPERS (4*20=80 Min) Chair: Tito Amaral (Setúbal Polytechnic University)	Face to Face Session-F30 4 PAPERS (4*20=80 Min) Chair: Khaled Ahmed (Strathclyde University)				
17:00-18:00	Face to Face Session-F31 3 PAPERS (3*20=60 Min) Chair: Massimo Caruso (Palermo University)	Face to Face Session-F32 3 PAPERS (3*20=60 Min) Chair: Erdal Irmak (Gazi University)	Face to Face Session-F33 3 PAPERS (3*20=60 Min) Chair: Halil Ibrahim Bulbul (Gazi University)	Face to Face Session-F34 3 PAPERS (3*20=60 Min) Chair: Mahamadou Abdou Tankari (University of Paris Est Creteil)	Face to Face Session-F35 3 PAPERS (3*20=60 Min) Chair: Korhan Kayisli (Gazi University)				
19:00-22:00	**Gala Dinner (Angelina Rivoli, 226 Rue de Rivoli, 75001, Paris)**								

OCTOBER 15, 2026 (THURSDAY) · 49 papers · 13 sessions									
09:00-10:00	Keynote Speech-V (60 Min) Mr. Kensuke Miyano Title: Power Electronics Technology to Realize the Carbon-Neutral Society TMEIC, Japan Session Chair: Khaled Ahmed (Strathclyde University)								
10:00-10:10	BREAK								
10:10-11:10	Keynote Speech-VI (60 Min) Professor João Martins Title:Enhancing Electrical Grid Robustness Against Climate Extremes Universidade Nova de Lisboa, Portugal Session Chair: Armando Pires (Setúbal Polytechnic University)								
11:10-11:20	MORNING COFFEE BREAK								
11:00-12:20	Face to Face Session-F36 3 PAPERS (3*20=60 Min) Chair: Tito Amaral (Setúbal Polytechnic University)	Face to Face Session-F37 4 PAPERS (4*20=80 Min) Chair: Vitor Pires (Setúbal Polytechnic University)	Face to Face Session-F38 4 PAPERS (4*20=80 Min) Chair: Halil Ibrahim Bulbul (Gazi University)	Face to Face Session-F39 3 PAPERS (3*20=60 Min) Chair: Jura Arkhangelski (University of Paris-Est Creteil)	Face to Face Session-F40 4 PAPERS (4*20=80 Min) Chair: Fabio Viola (Palermo University)				
12:20-12:40	BREAK								
12:40-13:30	LUNCH								
13:30-14:50	Face to Face Session-F41 4 PAPERS (4*20=80 Min) Chair: Armando Pires (Setúbal Polytechnic University)	Face to Face Session-F42 4 PAPERS (4*20=80 Min) Chair: Khaled Ahmed (Strathclyde University)	Face to Face Session-F43 4 PAPERS (4*20=80 Min) Chair: Nobumasa Matsui (Nagasaki Institute of Applied Science)	Face to Face Session-F44 4 PAPERS (4*20=80 Min) Chair: Erdal Irmak (Gazi University)					
14:50-15:30	BREAK								
15:30-15:40	AFTERNOON COFFEE BREAK								
15:40-17:00	Face to Face Session-F45 4 PAPERS (4*20=80 Min) Chair: João Martins (Universidade Nova de Lisboa)	Face to Face Session-F46 4 PAPERS (4*20=80 Min) Chair: Aurélien Hazan (University of Paris-Est Creteil)	Face to Face Session-F47 4 PAPERS (4*20=80 Min) Chair: Massimo Caruso (Palermo University)	Face to Face Special Session-SS1 3 PAPERS (3*20=60 Min) Chair: Andrea Di Martino (Politecnico di Milano)					
17:15-18:00	**Closing Ceremony**								

MONDAY, OCTOBER 12

	ONLINE AND POSTER PRESENTATIONS								
	ONLINE SESSION O1 Session Chair: Abdelhakim Belkaid (University of Béjaïa) Session Chair: Reddaiah Kasturi (Sri Krishnadevaraya University)	ONLINE SESSION O2 Session Chair: Fabio Viola (Palermo University) Session Chair: Anil Guntupalli (JNTU, Jawaharlal Nehru Technological University)	ONLINE SESSION O3 Session Chair: Onder Eyecioglu (Bolu Abant Izzet Baysal Univ.) Session Chair: Deepika Paturu (GITAM University)	ONLINE SESSION O4 Session Chair: Ramazan Bayindir (Gazi University)	ONLINE SESSION O5 Session Chair: Orhan Kaplan (Gazi University)	ONLINE SESSION O6 Session Chair: Nuri Alper Metin (Kirikkale University)			
09:00-09:20	**ID: 3** Title: Strength and Stability in IBR-Rich Power Systems: Review of Metrics and Impedance-Based Methods Toby Farkas (Boise State University)*	**ID: 36** Title: Mitigation of SSR Oscillations in Series Capacitor-Compensated Power System with Hybrid PV-BESS-Thermal Power Station FAWZI ALJowder (Retired)*	**ID: 88** Title: Multi-scale assessment and nonlinear response analysis of water ecological resilience in coal resource-based cities Xuesen Zhang (Anhui University of Science and Technology)*	**ID: 142** Title: Grid-Connected Hybrid Energy Storage Systems for Renewable Integration: Sizing, Control, Deployment, and Research Priorities Alperen Mustafa Colak (Nagasaki Universiy)*	**ID: 466** Title: Optimization and Techno-Economic Analysis of a Hybrid PV/T System for Arid Climates: A Case Study for Kuwait Abeer Al Anazi (Australian University (AU))*	**ID: 279** Title: Cycle-Level Capacity Tracking and Trajectory Smoothing for Lithium-Ion Batteries Using an Auto-Regressive ANFIS buse öğretir (ITU)*; Gulcihan Ozdemir (Istanbul Technical University)			
09:20-09:40	**ID: 4** Title: Islanding Performance Assessment of Microgrids Based on Simulation and Testbed Validation Toby Farkas (Boise State University)*	**ID: 66** Title: Feedforward-assisted PI control for DC bus voltage stabilization in a hybrid DC/AC microgrid Mahamadou AMADOU HAMADOU (UMR ESPACE-DEV, University of French Guiana)*; Chabakata Mahamat (UMR ESPACE-DEV, University of French Guiana); Abdellatif Elmouatamid (UMR ESPACE-DEV, University of French Guiana); Idris Sadli (UMR ESPACE-DEV, University of French Guiana); Abdessamad Boussafa (UMR ESPACE-DEV, University of French Guiana); Antoine Primerose (UMR ESPACE-DEV, University of French Guiana)	**ID: 107** Title: Proactive RoCoF Assessment in Power Systems Using Physics-Informed Neural Networks Miguel Ramirez-Gonzalez (ZHAW)*; Artjoms Obusevs (ZHAW, IEFE); Felix Rafael Segundo Sevilla (ZHAW, IEFE); Petr Korba (ZHAW, IEFE)	**ID: 423** Title: Influence of Grid-Connected DFIG-Based Wind Turbines on Torque Contributions and Transient Stability of Thermal Power Plant FAWZI ALJowder (Retired)*"	**ID: 220** Title: Experimental Verification of a DC-DC Converter Composed of Multilevel Converter and Linear Circuit With Analog Current Feedback Control Daisuke Kamizuru (Institute of science Tokyo)*; Ryoji Tsuruta (Advanced Technology R & D Center Mitsubishi Electric Corporation); Takahiro Urakabe (Institute of science Tokyo)	**ID: 285** Title: Comparative Analysis of GaN and Si-Based Ironless PMSM Motor Drives with Output Filters: Thermal, EMI, and Efficiency erdal sehirli (Silicon Austria Labs GmbH)*; Martin Scheffauer (Silicon Austria Labs GmbH); Johann Krenn (Silicon Austria Labs GmbH); Roberto Petrella (Silicon Austria Labs GmbH)			
09:40-10:00	**ID: 308** Title: Replacement Reserve Sizing for the Italian Power System with High NPRES Penetration Silvia Canevese (Ricerca sul Sistema Energetico - RSE)*; Gaia Ceresa (Ricerca sul Sistema Energetico - RSE S.p.A.); Emanuele Ciapessoni (Ricerca sul Sistema Energetico - RSE S.p.A.); Diego Cirio (Ricerca sul Sistema Energetico - RSE S.p.A.); Antonio Gatti (Ricerca sul Sistema Energetico - RSE S.p.A.)"	**ID: 76** Title: Joint Workload Routing and Energy Dispatch with Latency Constraints for Data Center Networks Powered by Renewable Energy in China Xiaoheng Zhang (Anhui University of Science and Technology)*	**ID: 274** Title: Particle Image Velocimetry Analysis of Wake Modification in a Channel-Based NACA 0012 Airfoil Shiva Om Bade Shrestha (Western Michigan University)*; Tianshu Liu (Western Michigan University); Rishav Mishra (Western Michigan University)	**ID: 263** Title: Traffic-Induced Airflow for Renewable Energy Harvesting from Road Vehicle Flow: A Theoretical Modeling and Techno-Economic Assessment for Road Tunnels Alessandro Michele Polizzi (STMicroelectronics)*	**ID: 244** Title: EnergyPlus-Trained Surrogates for Hourly Heating and Cooling Demand of the Vienna Building Stock Philipp Thunshirn (FH Technikum Wien)*; José Baptista (UTAD); Tiago Pinto (UTAD)	**ID: 428** Title: Combined Control of Electric Vehicles and Stationary Batteries for Frequency and Voltage Regulation in Isolated System Kosei Hasegawa (Sophia University)*			

10:00-10:20	**ID: 347** Title: Assessing Agreement Between Feature Ablation and SHAP in Spatial-Holdout SEVIRI-Based GHI Estimation Attila Knolmajer (University of Pannonia)*; Attila Fodor (University of Pannonia); Ágnes Vathy-Fogarassy (University of Pannonia)	**ID: 164** Title: Adaptive Grid-Forming Control for Islanded Microgrids: Benchmarking, Frequency Regulation, and Fault Ride-Through Ammar Abdelwahab (Budapest university of economic and technology)*; Vokony Istvan (Budapest university of technology and economics)	**ID: 443** Title: Physics-Guided and Data-Driven PMSM Loss Modeling Irin Jose (Georgia Institute of Technology)*	**ID: 156** Title: Machine Learning Prediction Models for Photovoltaic Power Generation: A Case Study at the University of Johannesburg Johan Venter (University of Johannesburg)*; Daniel van Niekerk (University of Johannesburg)	**ID: 287** Title: Probabilistic Load Forecasting for Renewable-Rich Distribution Grids: Multi-Horizon Evaluation and Early Warning of Critical Events Abdullah Öztoprak (Turkish-German University); Fulya Yenilmez (Turkish-German University)*; Nihal Zuhal Kayalı (Turkish-German University)	**ID: 561** Title: Cyber-Physical Replay Attacks on Closed-Loop DC-DC Boost Converters Şahin Coşkun (Gazi University)*; Seyfettin Vadi (Gazi University); Erdal Bekiroğlu (Gazi University); Erdal Irmak (Gazi University)			
10:20-10:40	**ID: 237** Title: Analyzing the Impacts of Electric Vehicle Charging Load on Electricity Prices: A Finnish Case Study Juha Koskela (University of Vaasa)*; Toni Simolin (Tampere University)	**ID: 78** Title: Application of Large Language Models in Power Quality Disturbance Classification Murat Aydoğan (Fırat University); Cem Haydaroğlu (Dicle University)*; Heybet Kılıç (Dicle University); Oğuzhan Katar (Fırat University); Özal Yıldırım (Fırat University)	**ID: 119** Title: Urban low carbon transportation travel mode selection method based on Bayesian DSGE model Jiaying Geng (Anhui University of Science and Technology)*	**ID: 218** Title: A Deep Learning Dynamic Framework for Hourly Probabilistic Community Net-Load Forecasting in Local Electricity Markets Anas ABUZNAID (International Energy Research Center Tyndall National Institute, UCC, Cork)*; shafi khadem (International Energy Research Center Tyndall National Institute, UCC, Cork); padraig lyons (International Energy Research Centre (IERC), Tyndall National Institute)*	**ID: 171** Title: Adaptive Grid-Forming Control for Enhanced Stability of Renewable-Dominated Microgrids Under Photovoltaic Power Fluctuations Ammar Abdelwahab (Budapest university of economic and technology)*; Vokony Istvan (Budapest university of technology and economics)	**ID: 155** Title: Characterisation and Analysis of Photovoltaic Solar Performance with Active Forced Ventilation Cooling – A Case Study in Johannesburg, South Africa Johan Venter (University of Johannesburg)*; Rodger Nunes (University of Johannesburg); Daniel van Niekerk (University of Johannesburg)			
10:40-10:50 COFFEE BREAK									
	ONLINE SESSION O7 Session Chair: Nuri Alper Metin (Kirikkale University)	ONLINE SESSION O8 Session Chair: Seshendranath Balla Venkata (University of Central Missouri)	ONLINE SESSION O9 Session Chair: Fabio Viola (Palermo University)	ONLINE SESSION O10 Session Chair: Halil Ibrahim Bulbul (Gazi University)	ONLINE SESSION O11 Session Chair: Massimo Caruso (Palermo University) Session Chair: Anil Guntupalli (JNTU, Jawaharlal Nehru Technological University)	ONLINE SESSION O12 Session Chair: Abdelhakim Belkaid (University of Béjaïa) Session Chair: Deepika Paturu (GITAM University)			
10:50-11:10	**ID: 307** Title: Design, Modelling, and CFD Analysis of a Diffuser Augmented Wind Turbine for Enhanced Power Extraction Soukaina Saddougui (Al Akhawayn University)*; Az-eddine Bouterfak (Al Akhawayn University); Lhoussaine Tenghiri (Al Akhawayn University)	**ID: 22** Title: Enhanced Hybrid P&O–Fuzzy Logic MPPT with Field-Oriented Control for Grid-Connected Wind Energy Systems Djamila REKIOUA (Laboratoire LTII)*; Toufik REKIOUA (Université de Bejaia); Pierre-Olivier Logerais (Univ Paris Est Créteil, CERTES, IUT de Sénart-Fontainebleau,); Mahamadou Abdou TANKARI (Univ Paris Est Créteil, CERTES, IUT de Créteil-Vitry)	**ID: 369** Title: Design and Performance Analysis of A SEPIC-Based PFC Converter for Harmonic Suppression in Arc Welding Power Supplies Badreddine Babes (1Research Center in Industrial Technologies CRTI)*; Oualid Aissa (LPMRN Laboratory, Faculty of Sciences and Technology University Mohamed El Bachir El Ibrahimi of Bordj Bou Arreridj, Algeria); Noureddine Hamouda (Research Center in Industrial Technologies CRTI); Ilhami Colak (Depart. of Electrical and Electronics Eng., Faculty of Engineering and Natural Sciences Istinye University Istanbul, Turkiye); Uwe Rädel (Technische Universität Ilmenau Ilmenau, Germany); Cherif Hamouda (ALCIOM Company, Yvelines, 3 rue des vignes 78220 Yvelines)	**ID: 377** Title: A Cloud-to-AI Operating Model for Renewable Energy Enterprise Management Sai Kiran Meda (MetLife Legal Plans)*	**ID: 381** Title: Multi-Objective Optimal Sizing of Hybrid Solar-Wind-Battery Renewable Energy Systems Bachina Harishbabu (VNR vignana jyothi institute of Engineering and Technology)*	**ID: 386** Title: Vulnerability and Patch Management Strategies for Renewable Energy Infrastructure Krishnaveni Musku (Absolute Assistance)*			

11:10-11:30	**ID: 309** Title: Conditional Public Acceptance of Waste Incineration: What Shapes Public Support? Muhammad Ali Haider (LUT University)*; Elizaveta Girshova (LUT University); Leonid Chechurin (LUT University)	**ID: 344** Title: Advanced Active Filtering and Third-Order Sliding Mode Control for Power Quality Enhancement FATIHA BOUAHDJI (Laboratoire Génie Electrique et Energies Renouvelables (LGEER), Faculty of Technology, Hassiba Benbouali University , Chlef , Algeria)*; ILHAMI COLAK (Istinye University, Faculty of Engineering and Natural Science, Department of Electrical and Electronics Engineering, Istanbul, Turkey;)	**ID: 371** Title: AI-Native Architecture for Real-Time Data Management in Renewable Energy Enterprises Sai Kiran Meda (MetLife Legal Plans)*	**ID: 376** Title: Autonomous Data Engineering Architecture for Smart Grid Platforms Raghavender nellikondi (Tekorg Inc)*; Reddaiah Kasturi (Independent Researcher)	**ID: 382** Title: Deep Learning-Based Short-Term Wind Power Forecasting: An LSTM and Temporal Convolutional Network Comparison Riyaz Ahammed Syed (Nitte University)*	**ID: 387** Title: IT-OT Security Convergence for Industry 4.0-Enabled Renewable Energy Systems Krishnaveni Musku (Absolute Assistance)*			
11:30-11:50	**ID: 311** Title: Power Curve as SLO: Continuous Underperformance Detection for Wind Turbines from SCADA Data Barnadeep Bhowmik (SLB)*; Souradeep Bhowmik (Aquent); Ujjwal Sharma (SLB); Sumit Bhatia (SLB)	**ID: 366** Title: Automated Hydrologic Data Collection and HEC-HMS-Based Flood Warning Framework for Real-Time Flood Risk Mapping Edwin Sammy Ochieng (Independent Researcher)*	**ID: 373** Title: Integrating AI Platform Engineering, and Automation in Smart Grid Infrastructure Sai Kiran Meda (MetLife Legal Plans)*	**ID: 379** Title: Multi-Objective Reactive Power Dispatch and Voltage Profile Optimization for Renewable-Integrated Distribution Networks shiva prasad (VNR VJIET)*	**ID: 383** Title: Classical Optimization vs. Reinforcement Learning for Electric Vehicle Charging Scheduling: A Comparative Study Bachina Harishbabu (VNR vignana jyothi institute of Engineering and Technology)*	**ID: 388** Title: KPI and KRI Design for Renewable Energy Operations Centers Krishnaveni Musku (Absolute Assistance)*			
11:50-12:10	**ID: 317** Title: Intelligent Energy Management and MPPT Control for Autonomous PV-Battery Microgrids Using Artificial Neural Networks Lydia Kebouchi (Université Béjaïa)*; Djamila Rekioua (Université de bejaia); Pierre-Olivier Logerais (Univ Paris Est Créteil)	**ID: 319** Title: Comparative Evaluation of Physics-Based, Data-Driven, Residual-Learning, and Physics-Informed Models for Electric Vehicle Energy Consumption Prediction Irin Jose (Georgia Institute of Technology)*	**ID: 374** Title: Large Language Models for Autonomous Data Lifecycle Management in Renewable Energy Systems Raghavender nellikondi (Tekorg Inc)*	**ID: 378** Title: An Autonomous Cloud-AI Framework for Renewable Energy Operations Sai Kiran Meda (MetLife Legal Plans)*	**ID: 384** Title: Multi-Objective Demand-Side Energy Management and Appliance Load Scheduling for Smart Buildings shiva prasad (VNR VJIET)*	**ID: 389** Title: AI Assistants for Reducing Operator Burnout in Renewable Energy Security Operations Krishnaveni Musku (Absolute Assistance)*			
12:10-12:30	**ID: 364** Title: Surplus PV Power Utilization for EV Charging and Green Hydrogen Production in Saudi Arabia Bader Alharbi (Majmaah University)*; El Manaa Barhoumi (Sultan Qaboos University); Bilkisu Jimada-Ojuolape (Kwara State University); Mahmoud M. Elgamasy (Menoufia University)	**ID: 569** Title: Social Acceptance of Autonomous Vehicles: Aligning Safety Evidence, Consumer Expectations, and Mobility Value Propositions Ercan Kayalıoğlu (Gazi University Institute of Natural Sciences); Seyfettin Vadi (Gazi University); Hafize Nurgül Durmuş Şenyapar (Gazi University); Ramazan Bayındır (Gazi University)	**ID: 375** Title: A Unified Framework for Autonomous Data Governance and Observability in Renewable Energy Platforms Raghavender nellikondi (Tekorg Inc)*; Reddaiah Kasturi (Independent Researcher)	**ID: 380** Title: A Comparative Deep Learning Framework for Solar Irradiance and Photovoltaic Power Forecasting shiva prasad (VNR VJIET)*	**ID: 385** Title: AI-Powered Threat Detection for Smart Grid Security: From Open-Source Intelligence to Automation Krishnaveni Musku (Absolute Assistance)*	**ID: 390** Title: AI-Based Next-Best-Action Decisioning for Real-Time Demand Response in Smart Grids Anil A (TCS)*			
12:30-12:40 COFFEE BREAK									
	ONLINE SESSION O13 Session Chair: Septi Belkacem (University of Batna 2) Session Chair: Raghavendar Nellikondi (University of the Cumberlands)	ONLINE SESSION O14 Session Chair: Massimo Caruso (Palermo University) Session Chair: Mugunth Chandran (CSU Global)	ONLINE SESSION O15 Session Chair: Reddaiah Kasturi (Sri Krishnadevaraya University)	ONLINE SESSION O16 Session Chair: Omer Faruk Bay (Gazi University) Session Chair: Anil Guntupalli (JNTU, Jawaharlal Nehru Technological University)	ONLINE SESSION O17 Session Chair: Halil Ibrahim Bulbul (Gazi University)	ONLINE SESSION O18 Session Chair: Srikanth Goud B (Anurag University)			

12:40-13:00	**ID: 391** Title: Predictive Fault Detection and Self-Healing Automation for Renewable Energy Grid Systems Anil A (TCS)*	**ID: 396** Title: Multi-Objective Electric Vehicle Charging Schedule Optimization for Grid Load Balancing and Cost Minimization Bachina Harishbabu (VNR vignana jyothi institute of Engineering and Technology)*	**ID: 401** Title: Noninterference Enforcement for Multi-Repository AI Coding Agents Managing Renewable Energy OT/SCADA Codebases Under Contextual Authorization Akhil Madineni (Oracle)*	**ID: 407** Title: UAV-Based Computer Vision for Safe and Automated Inspection of Concrete Infrastructure in Hydropower Facilities Sai Murali Sriramineni (California Department of Transportation)*; Zhijun Lei (California Department of Transportation)	**ID: 306** Title: Gate Driver Power Supply Circuit for Low-Voltage Modular Multilevel Converters Neville McNeill (Edinburgh Napier University)*; Savvas Papadopoulos (Edinburgh Napier University); Andrew Hopkins (University of Bristol)	**ID: 429** Title: Self-Supervised Contrastive Representation Learning Framework for Converter Fault Diagnosis Daggupati Venkatesh (TEXAS TECH UNIVERSITY)*; Miao He (TEXAS TECH UNIVERSITY); NAGA SAI KALYAN CH (VVIT UNIVERSITY)			
13:00-13:20	**ID: 392** Title: AI-Based Optimization of Electric Vehicle Grid Entitlement and Eligibility Rules Anil A (TCS)*	**ID: 397** Title: Evolutionary Optimization vs. Machine Learning Surrogate Models for Optimal Power Flow in Renewable-Integrated Grids Mutharasan A (Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology)*	**ID: 403** Title: Provenance-Typed Repository Context and Capability-Safe Execution for Prompt-Injection-Resilient AI Coding Agents in Renewable Energy Control-System Development Akhil Madineni (Oracle)*	**ID: 408** Title: Integrating Generative AI and 4D BIM for Project-Specific Safety Animations in Renewable Energy Construction Sai Murali Sriramineni (California Department of Transportation)*; Zhijun Lei (California Department of Transportation)	**ID: 413** Title: Privacy-Preserving Federated Anomaly Detection for Distributed Renewable Energy Plant Telemetry Uthej Mopathi (PayPal)*	**ID: 431** Title: Causal AI Framework for Fault Root-Cause Identification in Converter-Dominated Power Systems Daggupati Venkatesh (TEXAS TECH UNIVERSITY)*			
13:20-13:40	**ID: 393** Title: Real-Time Event-Driven Energy Decision Management Using Kafka and Distributed Data Systems Anil A (TCS)*	**ID: 398** Title: Metaheuristic Optimization vs. Deep Learning for Short-Term Household Load Forecasting Mutharasan A (Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology)*	**ID: 404** Title: Auditing Data Membership and Sensitive Credential Disclosure in Retrieval-Augmented Coding Assistants for Renewable Energy Software Supply Chains Akhil Madineni (Oracle)*	**ID: 409** Title: Automated Defect Detection and Digital Twin Development for Robotic Condition Assessment of Renewable Energy Infrastructure Sai Murali Sriramineni (California Department of Transportation)*; Zhijun Lei (California Department of Transportation)	**ID: 414** Title: Learning Context-Aware Retry Policies for Reliable Edge-to-Cloud Transactions in Smart Grid Telemetry Uthej Mopathi (PayPal)*	**ID: 432** Title: Fuzzy-Membership-Inspired Interpretable Neural Network Controller for CrCM Boost PFC Across Wide Operating Ranges Zhi Li (Technical University of Munich)*; Benjamin Schwabe (Infineon Technologies AG); Lorenzo Servadei (Technical University of Munich); Robert Wille (Technical University of Munich)			
13:40-14:00	**ID: 394** Title: AI-Augmented Orchestration for Scalable Case Management in Renewable Energy Operations Anil A (TCS)*	**ID: 399** Title: Multi-Objective Optimal Power Flow with Renewable Energy Integration: A Comparative Evolutionary Algorithm Study Ramesh T (KPR Institute of Engineering and Technology)*	**ID: 405** Title: Analyzing Long-Horizon Privilege Escalation in AI Coding Agents Across CI/CD Workflows for Renewable Energy Grid-Control Software Akhil Madineni (Oracle)*	**ID: 410** Title: An End-to-End Causal AI Framework for Root-Cause Localization in Edge-to-Cloud Renewable Energy Monitoring Systems Uthej Mopathi (PayPal)*	**ID: 416** Title: Grid-Constrained DC/AC Sizing of Utility-Scale PV with Rolling Conformal Calibration and AC-OPF Export Envelopes Ahmed Abuzuhayr (University of Bisha)*	**ID: 433** Title: AI-Based Cyber-Physical Computing Frameworks for Smart and Autonomous Renewable Energy Applications URLAM PRANITA (Department of CSE(AI&ML) Medhavi Skills University Sikkim)*; Pabitha C. (Department of Computer Science and Engineering SRM Valliammai Engineering College Kattankulathur, Chengalpattu, India); Bincy Joseph (School of Sciences St. Claret College (Autonomous)); Sourabh Jain (Department of Computer Science and Engineering K.R. Mangalam University (SOET-CSE)); Swetha Sangaraju (Department of Computer Science and Engineering Sree Rama Engineering College Karakambadi Road, Tirupati, India); Bharadwaja K. (Department of Mechanical Engineering Malla Reddy (MR) Deemed to be University)			

14:00-14:20	**ID: 395** Title: Deep Learning-Based Visual Fault Classification for Photovoltaic Panel Surface Defects Riyaz Ahammed Syed (Nitte University)*	**ID: 400** Title: A Transformer-Based Deep Learning Architecture for Multi-Horizon Renewable Energy Generation Forecasting Ramesh T (KPR Institute of Engineering and Technology)*	**ID: 406** Title: Continual Backdoor Injection in Repository-Adaptive Code Models for Renewable Energy Control Software Through CI/CD Feedback Loops Akhil Madineni (Oracle)*	**ID: 411** Title: An Adaptive Context-Aware Trust-Scoring Framework for Resilient Peer-to-Peer Renewable Energy Trading Transactions Uthej Mopathi (PayPal)*	**ID: 283** Title: An experimental study of transmittance losses in photovoltaic glass caused by dust deposits in a desert environment: the case of Mauritania Roughaya MOHAMED AHMED (Université de Nouakchott)*; Pierre-Olivier LOGERAIS (Université Paris-Est Créteil); Mohamed El Hacen JED (Université de Nouakchott); Ilyas MIMOUN (Université Paris-Est Créteil); Venkata ramana POSA (Université Paris-Est Créteil); Ahmedou MOHAMED MAHMOUD (Université de Nouakchott)	**ID: 434** Title: Intelligent HR Analytics and AI-Driven Business Management for Sustainable Growth in Renewable Energy Enterprises URLAM PRANITA (Department of CSE(AI&ML) Medhavi Skills University Sikkim)*; Navaneetha Krishnan Rajagopal (College of Economics and Business Administration University of Technology and Applied Sciences Salalah, Oman); Sentamilselvan K. (Department of Master of Business Administration Sri Manakula Vinayagar Engineering College Madagadipet, Puducherry 605 107, India); Priscilla Nancy S (St. Claret College (Autonomous) Bangalore, India); Rekha K M (GM University Davangere, Karnataka, India); Kritika Sharma (Vivekananda Global University Jaipur, Rajasthan, India)			
14:20-14:30 COFFEE BREAK									
	ONLINE SESSION O19 Session Chair: Ipek Cetinbas (Eskisehir Osman Gazi Univ.) Session Chair: Raghavendar Nellikondi (University of the Cumberlands)	ONLINE SESSION O20 Session Chair: Septi Belkacem (University of Batna 2) Session Chair: Mugunth Chandran (CSU Global)	ONLINE SESSION O21 Session Chair: Srikanth Goud B (Anurag University) Session Chair: Seshendranath Balla Venkata (University of Central Missouri)	ONLINE SESSION O22 Session Chair: Vitor Pires (ESTSetubal)	ONLINE SESSION O23 Session Chair: Erdal Irmak (Gazi University)	ONLINE SESSION O24 Session Chair: Erdal Bekiroglu (Gazi University)	ONLINE SESSION O25 Session Chair: Mehmet Demirtas (Gazi University)		

14:30-14:50	**ID: 436** Title: AI-Driven Mathematical Modeling for Predictive Analysis of Advanced Wind Turbine Mechanical Systems URLAM PRANITA (Department of CSE(AI&ML) Medhavi Skills University Sikkim)*; Sivaraman R. (Department of Mathematics Dwaraka Doss Goverdhan Doss Vaishnav College Arumbakkam, Chennai, India); Tirugabathini Kagendra (School of Sciences St. Claret College (Autonomous) Bengaluru, India); Jagadish S. Kallimani (Department of Artificial Intelligence and Machine Learning M S Ramaiah Institute of Technology (MSRIT) Bangalore, India); A. Sathish kumar (Department of Biomedical Engineering Erode Sengunthar Engineering College Perundurai 638057, India); Suganthi J. (Department of Mathematics SSKV College of Arts and Science for Women Kilambi, Kanchipuram, Tamil Nadu, India)	**ID: 447** Title: Cross-Climate Generalisation of Photovoltaic Power Forecasting from Publicly Forecastable Weather Variables, and the Measured Value of Irradiance Instrumentation Daggupati Venkatesh (TEXAS TECH UNIVERSITY)*	**ID: 450** Title: Identifiability Limits of Battery Capacity Fade Estimation from Operational Data: Filter Dependence and Policy-Change Confounding in a Grid-Connected Storage System ALi Ahmed (Department of Electrical and Electronic Engineering Technology, University of Johannesburg, Johannesburg, South Africa)*	**ID: 455** Title: Energy Savings in Ultra-Light Electric Vehicles through Custom Power Electronics and Optimized BLDC Control Kevin Antezana Livia (National Engineering University)*	**ID: 477** Title: Experimental Investigation of an Adaptive-Threshold MPPT Based on Sliding-Mode Control for Photovoltaic Systems Abdelhakim Belkaid (Bejaia University)*; Seddik BENHADOUGA (University of Bordj Bou Arreridj); Debiche Amirouche (University of Bordj Bou Arreridj); Claude Bertin NZOUNDJA FAPI (Université Paris Cité); Ilhami COLAK (Istinye University); Mounir MEDDAD (University of Bordj Bou Arreridj); Nabil BENYAHIA (ESME Research Lab)	**ID: 496** Title: Explainable AI for Anomaly Detection and Root-Cause Analysis in Cloud-Native Monitoring Platforms for Wind and Solar Power Plants Mallikharjuna Rakesh Manepalli (Raymond James And Associates INC)*	**ID: 19** Title: Trajectory-Informed Neural Networks-based MPC for Control of Shipboard Microgrids Xiaoyu Ge (Lehigh University); Javad Khazaei (Lehigh University)*; Faegheh Moazeni (Lehigh University)		
14:50-15:10	**ID: 437** Title: AI-Powered Autonomous Robotics for Smart Renewable Energy Systems and Industrial Automation URLAM PRANITA (Department of CSE(AI&ML) Medhavi Skills University Sikkim)*; Rajeshwari S B (Department of Computer Science and Engineering (AIML) Ramaiah Institute of Technology (MSRIT)); Koushal Majeti (Software Architect Information Technology Femtosol LLC Phoenix, AZ 85041, USA); Muthuraman Subbiah (Department of Engineering College of Engineering and Technology University of Technology and Applied Sciences Al Khuwair, Muscat, Oman); Prakash Selvam (Department of Mechatronics Engineering Sona College of Technology Salem, Tamil Nadu, India)	**ID: 430** Title: Neural Operator-Based Surrogate Modeling for Real-Time Dynamics Prediction of Power Electronic Converters Daggupati Venkatesh (TEXAS TECH UNIVERSITY)*	**ID: 451** Title: Quantifying Transfer Penalty in Renewable Energy Forecasting Across Spatial and Temporal Scales: Distributional Overlap, Concept Shift and the Value of Source Pooling ALi Ahmed (Department of Electrical and Electronic Engineering Technology, University of Johannesburg, Johannesburg, South Africa)*	**ID: 469** Title: Energy Management and Adaptive Error-Gradient Control for Resilient Islanded Microgrid Abdelhakim Belkaid (Bejaia University)*; Said Aissou (Bejaia University); Claude Bertin Nzoundja Fapi (Université Paris Cité); Ilhami COLAK (Istinye University); Nabil BENYAHIA (ESME Research Lab); Elyazid AMIROUCHE (Bejaia University)	**ID: 484** Title: Research into the diversified renewable energy potential and its application pathways to accelerate the energy transition processes in Ecuador with a view to 2050 Daniel Icaza (Universidad Católica de Cuenca, Cuenca, Ecuador)*; Carlos Flores Vázquez (Universidad Católica de Cuenca, Cuenca, Ecuador); Diego Morales Jadán (Universidad Católica de Cuenca, Cuenca, Ecuador); Andrés Cárdenas (Universidad Católica de Cuenca, Cuenca, Ecuador)	**ID: 497** Title: Explainable AI for Degradation and Warranty Risk Assessment of Battery Energy Storage and Photovoltaic Assets: Integrating Asset Data, Claim History, and Real-Time Operational Streams Mallikharjuna Rakesh Manepalli (Raymond James And Associates INC)*	**ID: 372** Title: Engineering Reliable AI Systems for Enterprise-Scale Renewable Energy Applications Sai Kiran Meda (MetLife Legal Plans)*		

15:10-15:30	**ID: 334** Title: Dynamic Power Sharing of Surplus Photovoltaic Power for Battery Protection and Hydrogen Storage Djamila REKIOUA (Laboratoire LTII)*; Toufik Rekioua (University of Bejaia); Pierre-Olivier Logerais (Univ Paris Est Créteil, CERTES, IUT de Sénart-Fontainebleau,77567 Lieusaint, France); mahamadou Tankari (Univ Paris Est Créteil, CERTES IUT de Créteil-Vitry 94010 Créteil)	**ID: 473** Title: A Novel Charge Control Strategy for Boundary Conduction Mode Boost PFC Converter Jizhe Wang (Oita University)*; Zhehui Guo (Delta Electronics); Sato Iwata (Oita University); Shuai Yang (Independent Researcher); Yinchen Xie (Chiba University); Tadashi Suetsugu (Fukuoka University); Fujio Kurokawa (Nagasaki Institute of Applied Science)	**ID: 513** Title: Explaining Renewable Energy to Citizens: Machine Civic Speech and AI Frameworks for Environmental Impact Reporting Manivannan Sethuraman (TJPRC)*; Ranvir Singh (Department of Journalism and Mass Communication Himachal Pradesh University India); Vikas Dogra (Department of Journalism and Mass Communication Himachal Pradesh University India); Abhay Anand (Department of Journalism and Mass Communication Himachal Pradesh University India); Khushwant Dangi (Department of Journalism and Mass Communication Himachal Pradesh University India)	**ID: 112** Title: Improving Load Frequency Regulation in Integrated EV Charging Microgrid Utilizing Metaheuristic Approaches Muhammad H. I. Nasution (King Fahd University of Petroleum and Minerals); Salman Habib (King Fahd University of Petroleum & Minerals, Dhahran 31261, Saudi Arabia)*; Farheen Ehsan (School of International and Public Affairs, Shanghai Jiao Tong University, 1954# Huashan Road, Xuhui District, Shanghai 200030, PR China); Bilal Khan (King Fahd University of Petroleum and Minerals); Ahmed M. Abdelemam (King Fahd University of Petroleum and Minerals)	**ID: 448** Title: Energy-Weighted Attribution of Wind Turbine Downtime: Fault Frequency Is a Poor Guide to Cost in Two Operating Wind Farms ALi Ahmed (Department of Electrical and Electronic Engineering Technology, University of Johannesburg, Johannesburg, South Africa)*	**ID: 498** Title: AI-Driven Test Generation and Risk-Weighted Regression Prioritization for Grid-Connected Battery Storage and Inverter Control Software Mallikharjuna Rakesh Manepalli (Raymond James And Associates INC)*	**ID: 435** Title: Artificial Intelligence-Driven Human Resource Management for Strategic Workforce Transformation in the Renewable Energy Sector URLAM PRANITA (Department of CSE(AI&ML) Medhavi Skills University Sikkim)*; Banu P. (Department of Business Administration – CDOE Kalasalingam Academy of Research and Education Krishnankovil 626126, Tamilnadu); Radha Thangarajan (School of Commerce & Management St. Claret College (Autonomous) Bangalore, India); Sasmita Panda (College of Economics and Business Administration University of Technology and Applied Sciences Salalah, Oman); Bhaskar Saikia (Department of Commerce Mahapurusha Srimanta Sankaradeva Viswavidyalaya Nagaon, Assam, India)		
15:30-15:50	**ID: 445** Title: Machine Learning-Based Structural Damage Detection and Safety Assessment for Renewable Energy Infrastructure URLAM PRANITA (Department of CSE(AI&ML) Medhavi Skills University Sikkim)*; Santhosh S. (Department of Civil Engineering Adhiparasakthi College of Engineering, Kalavai Ranipet, Tamil Nadu, India); Mary Joyce Vincia V (School of Sciences St. Claret College (Autonomous) Bangalore, India); Biplab Palye (Department of CSE (Data Science) Asansol Engineering College Asansol, West Bengal, India); T. Naresh Kumar (Department of Civil Engineering Anantha Lakshmi Institute of Technology and Sciences Ananthapuramu, Andhra Pradesh, India); Dr.Rajesh M.Autee (Department of Computer Science and Engineering Deogiri Institute of Engineering and Management Studies, Chhatrapati Sambhajinagar)	**ID: 449** Title: Forecast-Informed Linear-Programming Battery Dispatch in a Photovoltaic Microgrid: Decomposing the Cost of Prediction Error and the Value of Optimisation ALi Ahmed (Department of Electrical and Electronic Engineering Technology, University of Johannesburg, Johannesburg, South Africa)*	**ID: 512** Title: Regulating the Energy Citizen: AI-Driven Platform Accountability and Policy Impacts on Smart Grid Applications Manivannan Sethuraman (TJPRC)*; Harpreet Kaur (Department of Law Army Institute of Law Mohali, Punjab, India); Anmolpreet Kaur (Army Institute of Law Mohali, Punjab, India); Saurabh Garg (Dean, Faculty of Law Tantia University (Private University) Sri Ganganagar, Rajasthan, India); Sandeep Kaur (Faculty of Law Tantia University Sri Ganganagar, Rajasthan, India); Pawandeep Kaur (Department of Law Khalsa College of Law Amritsar, Punjab, India); Shivani Arora (Amritsar Law College Amritsar, Punjab, India)	**ID: 26** Title: Data-Centric LQR Control for a DC Motor Flexible Drive System via Willems' Fundamental Lemma Zhuoran Liu (Lehigh University); Javad Khazaei (Lehigh University)*	**ID: 494** Title: Intelligent Supply Chain Management for E-Commerce Using AI and Predictive Analytics: Renewable Energy Integration for Environmental Sustainability Usha s (Independent)*; Radha Thangarajan (School of Commerce and Management St. Claret College (Autonomous) Bangalore, India); Devarshi Anil Dhoble (Department of Management Technology Shri Ramdeobaba College of Engineering and Management Nagpur, India); Prabhakaran J (Department of Business Administration Kalasalingam Academy of Research and Education Krishnankoil, India); Vikram K. Joshi (School of Management Ramdeobaba University Nagpur, India); D. Anand (Department of Computer Science and Engineering Koneru Lakshmaiah Education Foundation Guntur, Andhra Pradesh, India)	**ID: 499** Title: Deep Reinforcement Learning for Renewable-Aware Elastic Computing in Virtual Power Plant Telemetry and Dispatch Platforms Mallikharjuna Rakesh Manepalli (Raymond James And Associates INC)*	**ID: 483** Title: Measurement-Protocol Leakage in Literature-Derived Materials Datasets: Inflated Machine-Learning Accuracy in Wind-Turbine Structural Alloys and Composite Sensors Riyaz Ahammed Syed (Nitte University)*; Takamoto Itoh (Ritsumeikan University); Hiroshi Fujiwara (Ritsumeikan University)		

15:50-16:10	**ID: 438** Title: AI-Driven Workplace Safety Risk Analytics for Renewable Energy Workforce Management URLAM PRANITA (Department of CSE(AI&ML) Medhavi Skills University Sikkim)*; Karthick Vadivel (Kalasalingam Business School Kalasalingam Academy of Research and Education Krishnankoil 626 126, Tamilnadu, India); Prabhakaran J (Kalasalingam Business School Kalasalingam Academy of Research and Education Krishnankoil 626 126, Tamilnadu, India); Madhurya T (Department of Computer Science and Engineering Mysore College of Engineering and Management Mysore, India); Santhosh B R (Department of Computer Science and Engineering Mysore College of Engineering and Management (MyCEM) Mysuru, India); Harsha Kumar H S (Department of Computer Science Mysore College of Engineering and Management Mysore, India)	**ID: 418** Title: A Machine Learning Framework for Hybrid Energy Storage Systems Rogina ZOURKTA (Lebanese International University); Bassel CHOKR (Lebanese International University); Abdérafi CHARKI (University of Angers); Mohammad Hammoud (Lebanese International University)*	**ID: 453** Title: Static and Dynamic Components of Yaw Misalignment Energy Loss in an Operating Wind Farm: Cross-Turbine Referencing and Three-Year SCADA Analysis ALi Ahmed (Department of Electrical and Electronic Engineering Technology, University of Johannesburg, Johannesburg, South Africa)*	**ID: 363** Title: Design and Performance Analysis of Hybrid Solar Tower and Wind Energy for Tabuk City, Saudi Arabia Seid Gebeyehu (KFUPM); SISAY WALLE (KFUPM); Ali Alaidaros (KFUPM); Hussein Mohammed (King Fahd University of Petroleum & Minerals)*	**ID: 495** Title: Semantics-Preserving LLM Modernization of Legacy Hydropower and Wind Plant Software Mallikharjuna Rakesh Manepalli (Raymond James And Associates INC)*	**ID: 500** Title: Agentic AI for Smart-Grid Data Operations: Autonomous Agents for Integration, Data Quality, and Pipeline Governance in Renewable Energy Platforms Reddaiah Kasturi (Divine IT Services)*	**ID: 341** Title: Short-term PV Power Forecasting Under UAE Arid-Climate Conditions Using Clear-Sky-Informed Regression Models Mohamed Jama (Abu Dhabi University)*; Alanood Aljaberi (Abu Dhabi University)		
16:10-16:20 COFFEE BREAK									
	ONLINE SESSION O26 Session Chair: Ipek Cetinbas (Eskisehir Osman Gazi Univ.) Session Chair: Raghavendar Nellikondi (University of the Cumberlands)	ONLINE SESSION O27 Session Chair: Omer Faruk Bay (Gazi University) Session Chair: Mugunth Chandran (CSU Global)	ONLINE SESSION O28 Session Chair: Fabio Viola (Palermo University) Session Chair: Seshendranath Balla Venkata (University of Central Missouri)	ONLINE SESSION O29 Session Chair: Mehmet Demirtas (Gazi University)	ONLINE SESSION O30 Session Chair: Korhan Kayisli (Gazi University)	ONLINE SESSION O31 Session Chair: Erdal Bekiroglu (Gazi University)	ONLINE SESSION O32 Session Chair: Halil Ibrahim Bulbul (Gazi University)	ONLINE SESSION O33 Session Chair: Deepika Paturu (GITAM University)	POSTER SESSION P1 Session Chair: Mustapha Karkri (University of Paris-Est Creteil)

16:20-16:40	**ID: 501** Title: Autonomous Data Quality for Renewable Generation and Storage Fleets: Physics-Informed Detection, Diagnosis, and Correction of Sensor Anomalies Reddaiah Kasturi (Divine IT Services)*	**ID: 511** Title: Large Language Models and AI-Powered Energy Storage Analytics: Advancing Management Decision-Making for Smart Grid Applications Manivannan Sethuraman (TJPRC)*; Rohit Ranjan (Research Scholar Tata Institute of Social Sciences Guwahati, India); Anshu Chandra (Department of Teacher Education Nagaland University, Kohima Campus Nagaland, India); Harris Kumar D (Department of Business Administration Vidyavardhaka College of Engineering Mysuru, India); Alka Nanda Amethia (Multi-Disciplinary Research Centre Nagaland University Lumami, Nagaland, India)	**ID: 530** Title: Memory Budget as a Selection Criterion for Power Quality Disturbance Classification on Measured Data Onder Eyecioglu (Bolu Abant Izzet Baysal University)*; Ümit Şentürk (Bolu Abant Izzet Baysal University)	**ID: 490** Title: A Simple Indirect Model Predictive Control for Single-Phase Shift-Driven Dual Active Bridge Converters Gioacchino Scaglione (University of Palermo)*; Filippo Pellitteri (University of Palermo); Riccardo Mandrioli (University of Bologna); Mattia Ricco (University of Bologna); Antonino Oscar Di Tommaso (University of Palermo); Renato Rizzo (University of Napoli Federico II); Rosario Miceli (University of Palermo)	**ID: 188** Title: Variable-Frequency PI Output-Current Control of a Secondary Resonant Single Active Bridge Converter: Comparison with Zero-Voltage-Period Control MOHAMED ABDELRAZEK (student)*; Wataru Kitagawa (Nagoya institute of technology); Takaharu Takeshita (Nagoya institute of technology)	**ID: 284** Title: Virtual Entity Representation and Calibration for Hybrid Digital Twins in Wind Turbine Fault Diagnosis César Tadeu Medeiros Branco (Universidade Federal de Santa Catarina)*; Najmat Celene Nasser Medeiros Branco (Universidade Federal do Pará); Tadeu da Mata Medeiros Branco (Universidade Federal do Pará)	**ID: 467** Title: Distributed Transient Signature Decomposition for Renewable-Induced Grid Disturbance Cartography Daggupati Venkatesh (TEXAS TECH UNIVERSITY)*	**ID: 493** Title: AI-Driven Cloud Computing and Machine Learning Frameworks for Scalable Intelligent Applications in Renewable Energy Systems Usha s (Independent)*; Nisha Abhijeet Auti (Department of Computer Science and Engineering Bharati Vidyapeeth (Deemed to be University) College of Engineering, Pune, India); Bangar Nilesh Subhash (Dr. D. Y. Patil School of Science and Technology); Mandar D. Joshi (School of Computing, MIT Art, Design and Technology University Pune, India); Ujjwala N. Salunkhe (Department of CSE (Core) School of Computing, MIT Art, Design and Technology University Pune, India); D. Anand (Department of Computer Science and Engineering Koneru Lakshmaiah Education Foundation Guntur, Andhra Pradesh, India)	**ID: 17** Title: Eco-design and experimental characterization of a Piggott wind turbine for low wind speed sites Abdou Tankari Mahamadou (University of Paris Est Creteil, Certes Lab.); Aboubacar Seydou Boukari (University of Clermont-Auvergne); Pierre-Olivier Logerais (Univ. Of Paris Est Créteil CERTES Lab); Mustapha Karkri (Univ. Of Paris Est Créteil CERTES Lab.); Hudnall Jay (Ti'éole - énergies éoliennes); Dramé Aboubacar (Univ. Of Paris Est Créteil CERTES Lab)*; CAMARA Mamadou Baïlo (University of Le Havre Normandy); Toure Yamoussa (Univ. Of Paris Est Créteil CERTES Lab)
16:40-17:00	**ID: 507** Title: Explainable AI and Intelligent Energy Management for Strengthening Consumer Rights in Renewable Energy Systems Manivannan Sethuraman (TJPRC)*; Mayuri Singh (Chhatrapati Shahu Ji Maharaj University Kanpur, Uttar Pradesh, India); Rishi Srivastava (Atal Bihari Vajpayee School of Legal Studies Chhatrapati Shahu Ji Maharaj University Kanpur, Uttar Pradesh, India); Sharwani Pandey (Chhatrapati Shahu Ji Maharaj University Kanpur, Uttar Pradesh, India); Samarendr Chauhan (Atal Bihari Vajpayee School of Legal Studies Chhatrapati Shahu Ji Maharaj University Kanpur, Uttar Pradesh, India); Ashok Kumar (Atal Bihari Vajpayee School of Legal Studies Chhatrapati Shahu Ji Maharaj University Kanpur, Uttar Pradesh, India); Rashmi s (Research Scholar Chhatrapati Shahu Ji Maharaj University Kanpur, Uttar Pradesh, India)	**ID: 454** Title: A Backstepping Controller with Integral-Compensated INC-MPPT for Black-Start of PV-Based DC Microgrids Joaquim Monteiro (ISEL)*; Vitor Pires (Universidade Politécnica de Setubal)	**ID: 541** Title: PM-Free Axial-Flux AC Motor with Reluctance Rotor and Ferromagnetic-Core Stator with PCB DC Excitation for Renewable Energy Systems Diego Lopez-Guerrero (University of Kentucky)*; Matin Vatani (University of Kentucky); Dan Ionel (University of Kentucky)	**ID: 149** Title: Nonlinear ADRC-Based Direct Power Control of a Doubly-Fed Induction Generator Abdel Ghani AISSAOUI (University of Bechar)*; Ahmed Tahour (Ecole supérieure en sciences appliqués ESSA Tlemcen); Mohamed ABID (Djilali Liabes University Sidi Bel Abbes); Mohammed Kendzi (Institute of Science and TechnologyUniversity Center Salhi Ahmed Naama)	**ID: 468** Title: Transductive Transfer Learning for Cross-Station Solar Radiation Prediction using Deep Learning Models Rami AL-HAJJ (American University of the Middle East)*; Bilel NEJI (American University of the Middle East); Ali ASSI (SMIEEE)	**ID: 412** Title: LLM-Driven Autonomous Regression Test Generation from SCADA and Grid-Control Software Fault Reports Uthej Mopathi (PayPal)*"	**ID: 520** Title: Artificial Intelligence-Driven Smart Energy Systems for Next-Generation Electrical and Mechanical Engineering Usha s (Independent)*; Asmathunnisa N (M S Ramaiah Institute of Technology (Affiliated to VTU, Belagavi) Bengaluru, India); Jagadish S Kallimani (M S Ramaiah Institute of Technology Bengaluru, India); Harish H Kenchannavar (Dayananda Sagar College of Engineering Bengaluru, India); V. Suryanarayana Reddy (RSR Engineering College Kavali, Andhra Pradesh, India); Mahamkali Saikiran (Dept. of Computer Science and Engineering BESTIU); D. Anand (Koneru Lakshmaiah Education Foundation Green Fields, Guntur, Andhra Pradesh, India)	**ID: 446** Title: AI-Driven Software Engineering for Autonomous Renewable Energy Application Development and Maintenance URLAM PRANITA (Department of CSE(AI&ML) Medhavi Skills University Sikkim)*; Vivek Kothuru (Department of Computer Science College of Engineering University of Illinois at Chicago Illinois, USA)	**ID: 293** Title: A Comparative Clustering Approach for Optimal Sensor Network Reduction in Building Thermal Monitoring Sarra BENDAHOU (University of Paris-Est Créteil)*; hasan RAKIBUL (Université Paris-Est Créteil); Jura ARKHANGELSKI (Université Paris-Est Créteil); Mahamadou ABDOU-TANKARI (Université Paris-Est Créteil)

17:00-17:20	**ID: 508** Title: An Adaptive AI-Enabled Energy Management Framework for Enhancing Analytical Problem-Solving Skills in Renewable Energy Systems Manivannan Sethuraman (TJPRC)*; Sarthak Ghosh (Doctorate of Business Administration Department of Business Westcliff University Piscataway, New Jersey, USA)	**ID: 452** Title: Staleness Growth Exceeding Module Degradation in Photovoltaic Forecasting: A Seventeen-Year Gradient-Boosting Assessment of Retraining Policy ALi Ahmed (Department of Electrical and Electronic Engineering Technology, University of Johannesburg, Johannesburg, South Africa)*	**ID: 542** Title: Yokeless and Segmented Armature YASA Axial Flux Synchronous Machine with WPT DC-Excitation for Electric Transportation Matin Vatani (University of Kentucky)*; Dan M. Ionel (University of Kentucky)	**ID: 314** Title: Assessing Netting Potential in Wind Power Portfolios Through Size, Geographic, and Systematic Bias Decomposition Ahmet Ay (marmara university)*; Ali Ajder (yıldız tecnical university); Merden Yeşil (inavitas energy)	**ID: 486** Title: Study of the Effect of Truncation on the Performance of Concentrated Photovoltaic System Sourav Kumar (Indian Institute of Technology Madras)	**ID: 316** Title: A Hybrid TCN-LSTM Model for Short-Term Tidal Velocity Forecasting Using the IBI Ocean Physics Reanalysis Dataset Long Hoang (University of Galway)*; Umair ul Hassan (University of Galway)	**ID: 526** Title: FinTech-Enabled Investment in Renewable Energy: A Data-Driven Study of Investment Behaviour and Sustainable Energy Financing Ramakrishna nuvvula s s (NITTE NMAMIT)*; TOM MATHEWS (Faculty of Commerce & Economics, Dept. of Economics, Vistas (Vels Institute Of Science Technology And Advanced Studies) Pallavaram, Chennai, TamilNadu, India); . Muruganathan M (Faculty of Commerce and Economics, Department of Economics, Vistas (Vels Institute of Science Technology and Advanced Studies), Pallavaram, Chennai, TamilNadu, India)	**ID: 557** Title: Factory-Test-Based Loss and Efficiency Assessment of a 154/33.6 kV, 62.5 MVA Transformer for Renewable-Grid Loading Scenarios Amin Tahouni (Europower World)*; Ramazan Bayindir (Gazi University); Asker Sebati (Europower World); Sam Malek (Europower World)	**ID: 348** Title: Photovoltaic Performance Monitoring in an Urban Environment: First Results from a Long-Term Monitoring Facility at Université Paris-Est Créteil Yamoussa Touré (Université Paris-Est Créteil, CERTES); Venkata Ramana Posa (Université Paris Est, CERTES, IUT de Sénart-Fontainebleau); Mahamadou Abdou Tankari (Université Paris-Est Créteil, CERTES, IUT de Créteil-Vitry); Anne Chabas (Université Paris-Est Créteil, LISA); Pascale Chelin (Université Paris-Est Créteil, LISA); Pierre-Olivier Logerais (Université Paris Est, CERTES, IUT de Sénart-Fontainebleau)*
17:20-17:40	**ID: 509** Title: From Energy Consumption Generations to Digital Footprints: Exploring the Environmental Impacts of Community Behaviour Manivannan Sethuraman (TJPRC)*; Sofia N. (School of Law Sathyabama Institute of Science and Technology (Deemed to be University) Chennai, Tamil Nadu, India); Selvaraju R. (Department of History Manonmaniam Sundaranar University Tirunelveli, Tamil Nadu, India); Meenakshi A. (Department of History Kunthavai Naacchiyaar Government Arts College for Women (Autonomous) Thanjavur, Tamil Nadu, India); T. Kosalai Rani (Department of History Manonmaniam Sundaranar University Tirunelveli, Tamil Nadu, India)	**ID: 516** Title: Robust Predictive DTC-SVM of a Dual-Star Induction Machine for Wind Energy Conversion Systems Abdelhakim Belkaid (Bejaia University)*; kamel Ouari (Bejaia University); Ilhami COLAK (Istinye University); korhan kayisli (Gazi University)	**ID: 198** Title: A Low-Complexity, Model-Free Fault Detection Algorithm for Fault-Tolerant Drives Giuseppe Blunda (University of Palermo)*; Massimo Caruso (University of Palermo); Antonino Oscar Di Tommaso (University of Palermo); Rosario Miceli (University of Palermo)	**ID: 273** Title: International Partnerships and Renewable Energy Development in Azerbaijan: Solar, Wind, and Hydropower Projects Khagan Mirzazada (Baku State University)*	**ID: 261** Title: Techno-Economic Assessment and Performance Analyses of a Wind Turbine System in Saudi Arabia Hussein Mohammed (King Fahd University of Petroleum & Minerals)*	**ID: 370** Title: Grid Interaction of Peer-to-Peer Energy Communities under Increasing PV and Battery Penetration İzviye Fatımanur Tepe (Ostim Technical University); Erdal Irmak (Gazi University)*	**ID: 345** Title: Analysis of Offshore Wind Potential and Wave Resources along the 200 m Isobath in Romania's Exclusive Economic Zone for Floating Offshore Wind Platform Site Selection Adriana Silion ("Dunarea de Jos" University of Galati)*; Liliana Rusu ("Dunarea de Jos" University of Galati)*	**ID: 559** Title: New Approach for Management of Internal Arc Blast in Medium Voltage Enclosures Asker Sebati (Europower World)*; Ramazan Bayindir (Gazi University); Amin Tahouni (Europower World); Sam Malek (Europower World)	**ID: 148** Title: Renewable Forecast-Aware Energy Management of Grid-Forming Converters Under Uncertainty Ayse Colak (University of Strathclyde)*

17:40-18:00	**ID: 510** Title: Explainable AI-Based Linguistic Pattern Mining for Energy Efficiency and Environmental Impact Analysis in Smart Grids Manivannan Sethuraman (TJPRC)*; Sarthak Ghosh (Doctorate of Business Administration Department of Business Westcliff University Piscataway, New Jersey, USA)	**ID: 517** Title: Physics-Structured Adaptive Super-Twisting Sliding Mode Control for Robust Voltage Regulation of Nonideal DC–DC Boost Converters Korhan Kayisli (Gazi University)*; Ruhi Zafer Caglayan (TED University); Abdelhakim Belkaid (Bejaia University)	**ID: 199** Title: A Comparative Review of Fault Detection Algorithms for Electric Motor Drives Giuseppe Blunda (University of Palermo)*; Massimo Caruso (University of Palermo); Antonino Oscar Di Tommaso (University of Palermo); Rosario Miceli (University of Palermo)	**ID: 139** Title: Beyond Carbon: A Life Cycle Assessment of Saudi Arabia's Electricity Transition Pathways Muhammad Shahbaz Ali (King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia)*; Abdullah Abdulaziz Alshuhail (King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia); Muhammad Asif (King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia); Fahad ur Rehman (King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia)	**ID: 240** Title: Development of Mangifera Indica-Based Combustible Energy Pellets with Waste Cooking Oil Binder and Energy Efficiency Calculation via MATLAB Kyle Fernando Sasi (Mapua University); Kriz Kenshin Emerson Tam (Mapua University)*; Glenn Magwili (Mapua University)	**ID: 415** Title: Analytical Assessment of PQ Capability for Hybrid Sites with HVDC-connected Offshore Wind, Energy Storage, and Electrolysis Reem Farag (University of Strathclyde)*; Mohamed Abouyehia (University of Strathclyde); Darshak Shah (JERA Nex bp); Khaled Ahmed (University of Strathclyde)	**ID: 476** Title: Loading-Path-Aware Fatigue Life Prediction for Lightweight Electric-Vehicle Alloys: Protocol Separation, Within-Alloy Variance Recovery and Conformal Reliability Bounds Ramakrishna nuvvula s s (NITTE NMAMIT)*; Takamoto Itoh (College of Science and Engineering, Ritsumeikan University, 1-1-1 Nojihigashi, Kusatsu-shi, Shiga, Japan); Hiroshi Fujiwara (College of Science and Engineering, Ritsumeikan University, 1-1-1 Nojihigashi, Kusatsu-shi, Shiga, Japan)	**ID: 560** Title: Factory-Test-Based Short-Circuit Withstand and Mechanical Integrity Assessment of a 154/33.6 kV, 62.5 MVA Power Transformer According to IEC 60076 Amin Tahouni (Europower World)*; Ramazan Bayindir (Gazi University); Asker Sebati (Europower World); Fatih Sayılır (Europower World)	
TUTORIALS									
09:00-09:40	TUTORIAL 1	How Can We Make Computing Systems Consume Less Energy and Intelligently Adapt Their Workloads to Renewable Energy Availability? Prof. Dr. Halil Ibrahim BULBUL Gazi University, Ankara, Türkiye							
09:40-09:55	BREAK								
09:55-10:35	TUTORIAL 2	DC-DC Converters Based on the Differential Connections Prof. V. Fernão PIRES Polytechnic Institute of Setúbal & INESC-ID, Lisbon, Portugal							
10:35-10:50	BREAK								
10:50-11:30	TUTORIAL 3	Power System Stability and Control with Increasing Renewable Energy Integration Prof. Dr. Erdal IRMAK Head of the Smart Grids Graduate Program, Gazi University, Ankara, Türkiye							
12:20-13:00	BREAK								
13:00-13:40	TUTORIAL 4	Artificial Intelligence for Renewable Energy Systems: From Forecasting to Autonomous Operation Prof. Dr. Erdal BEKIROGLU Faculty of Technology, Department of Electrical and Electronics Engineering, Gazi University, Ankara, Türkiye							
13:40-13:55	BREAK								
13:55-14:35	TUTORIAL 5	When Green Energy Burns: Understanding Electrical Fire Risks in Renewable Energy Systems Dr. Fabio VIOLA Department of Electrical, Electronic and Telecommunication Engineering, University of Palermo, Italy							
14:35-14:50	BREAK								
14:50-15:30	TUTORIAL 6	Loss Model Techniques for Energy-Efficient Electrical Drives: From Fundamentals to Adaptive and System-Level Optimization Prof. Massimo CARUSO Department of Engineering, University of Palermo, Italy							
15:30-15:45	BREAK								

15:45-16:25	TUTORIAL 7	Time Series Analysis: Anomaly Detection, Drift Detection, and Diagnostics - Supervised and Unsupervised Approaches Dr. Abdérafi CHARKI LARIS, Polytech Angers, University of Angers, France			
16:25-16:40	BREAK				
16:40-17:20	TUTORIAL 8	Enhanced Electric Grid Support by Advanced Grid-Following and Grid-Forming Strategies with LCL-filtered Cascaded H-Bridge Inverters Dr. Giuseppe Sorrentino Department of Engineering, University of Palermo, Italy			
17:30-19:30	Welcome Party (Euro Hotel Paris Creteil, 12 Rue Fernand Pouillon, 94000 Créteil, France)				

TUESDAY, OCTOBER 13

Program Detail of ICRERA 2026, Paris/France, October 13, 2026 (Tuesday)		
	OCTOBER 13, 2026 (TUESDAY)	
08:00-08:30	Opening Ceremony and Speeches	
08:30-09:10	Keynote Speech-I (40 Min) Professor Kazuhiro Umetani Title: Controllable Resonant Converters: A Potential Key Technology for DC Power Systems Kyushu University, Japan Session Chair: Nobumasa Matsui (Nagasaki Institute of Applied Science)	
09:10-09:50	Keynote Speech-II (40 Min) Professor Kan Akatsu Title: High frequency (MHz), High Power (10kW), and Long Distance (1m) Wireless Power Transfer Yokohama National University, Japan Session Chair: Erdal Irmak (Gazi University)	
09:50-10:10	Industrial Session JR East	
10:10-10:30	Industrial Session NXTEC	
Program Detail of ICRERA 2026, Paris/France, October 13, 2026 (Tuesday)		
	OCTOBER 13, 2026 (TUESDAY)	
10:40-11:40	Room 1 Session-F1 Session Chair: Erdal Bekiroglu (Gazi University)	Room 2 Session-F2 Session Chair: Alvaro Llaria (Institute of Technology ESTIA)
10:40-10:55	**ID: 1** Title: Modeling and simulation of a wind/solar power generation system for rural communities on the Peru-Ecuador border Daniel Icaza (Universidad Católica de Cuenca, Cuenca, Ecuador)*	**ID: 24** Title: Green Energy Transition and Economic Growth in the European Union: Are All Renewable Energy Sources Growth-Enhancing? Zafer Adali (Artvin Coruh University); Hıdır Duzkaya (Gazi University)*; Ilkay Guler (Haci Bayram Veli University)
10:55-11:10	**ID: 15** Title: An Optimal Adaptive Control for VSM-Based Grid-Forming Inverters Noor Khan (Energy Systems Skoltech); Oleg O. Khamisov (Energy Systems Skoltech); Amjad Ali (King Fahd University of Petroleum and Minerals); Muhammad Majid Gulzar (King Fahd University of Petroleum and Minerals)*	**ID: 189** Title: Weather-Enhanced Short-Term Load Forecasting with Seasonal Solar Interactions Nada Bozhinovska (University of Ss. Cyril and Methodius in Skopje - Faculty of Electrical Engineering and Information Technologies); Maja Celeska Krstevska (University of Ss. Cyril and Methodius in Skopje)*; Mare Srbinovska (University of Ss. Cyril and Methodius in Skopje - Faculty of Electrical Engineering and Information Technologies); Aleksandra Krkoleva Mateska (University of Ss. Cyril and Methodius in Skopje - Faculty of Electrical Engineering and Information Technologies); Vesna Andova (University of Ss. Cyril and Methodius in Skopje - Faculty of Electrical Engineering and Information Technologies)
11:10-11:25	**ID: 21** Title: Numerical Investigation of Thermal Development in Planar Poiseuille Flow – A MATLAB-Based Study rafik Boutaba (King Fahd University of Petroleum and Minerals)*; faiz alya (King Fahd University of Petroleum and Minerals)	**ID: 28** Title: A Physical Attack-Aware Resilient Planning Framework for Hydrogen-Integrated Microgrids Mohamed M. Refaat (King Fahd University of Petroleum & Minerals)*; Mujahed Al-Dhaifallah (King Fahd University of Petroleum & Minerals); Nezar Alyazidi (King Fahd University of Petroleum & Minerals); Ahmed M. Abdelemam (King Fahd University of Petroleum and Minerals)

11:25-11:40	**ID: 417** Title: AI-Based Time Series Analysis for Energy Performance: Drift and Anomaly Detection, and Forecasting in PV Plants Abdérafi Charki (University of Angers)*	**ID: 29** Title: AI Technologies in Faults Diagnosis of Cyber-Physical Power Systems and Challenges in Deployment Zahid Riaz (Pakistan Institute of Engineering and Applied Sciences); Salman Habib (King Fahd University of Petroleum & Minerals, Dhahran 31261, Saudi Arabia)*; Abdul Qayyum Khan (Pakistan Institute of Engineering and Applied Sciences, Islamabad, 45650 Pakistan); Ahmed M. Abdelemam (King Fahd University of Petroleum & Minerals, Dhahran 31261, Saudi Arabia); Hasnain Ahmad (King Fahd University of Petroleum and Minerals)
11:40-12:40	Room 1 Session-F3 Session Chair: Massimo Caruso (Palermo University)	Room 2 Session-F4 Session Chair: Pierre-Olivier Logerais (University of Paris-Est Creteil)
11:40-11:55	**ID: 33** Title: Enhancing Protection Coordination of Inverter-Dominated Islanded Microgrid Using Adaptive Droop-Based VI-FCL Ahmed Abdelemam (KFUPM)*; Salman Habib (KFUPM); Mohamed Refaat (KFUPM); Mahmoud Elkholy (KFUPM)	**ID: 34** Title: Fault-Tolerant Control and Voltage Balancing Strategy for NPC-DAB Converter with Bipolar Output Mei-Fang Wang (National Sun Yat-sen university)*; An-Jie Lan (National Sun Yat-sen university); Tzung-Lin Lee (National Sun Yat-sen university)
11:55-12:10	**ID: 30** Title: Design Compatibility Testing and System-Level Integration of Autonomous Robotic Cleaning Yaman Abou Jieb (Boise State University)*; Almoatasem Alismaili (OQ); Eklas Hossain (Boise State University)	**ID: 35** Title: Spatial Power-Quality Distortion in Multi-Objective Planning of EV Charging Stations and Renewable Distributed Generation in Radial Distribution Systems mahmoud Elkholy (King Fahd University of Petroleum and Minerals)*; Hasan Masrur (King Fahd University of Petroleum and Minerals); Mourad M. Mansour (University of Vaasa); H.M. Yasir Naeem (King Fahd University of Petroleum and Minerals); Ahmed M. Abdelemam (King Fahd University of Petroleum and Minerals); Sami El Ferik (King Fahd University of Petroleum and Minerals)
12:10-12:25	**ID: 32** Title: Economic Impact of Hybrid Reactive Power Compensation on Utility-Scale PV Plant Energy Yield and Revenue Yaman Abou Jieb (Boise State University)*; Eklas Hossain (Boise State University)	**ID: 38** Title: Solar Energy Production Forecasting Through Short-Term Meteorological Prediction Using Machine Learning Pedro Pinto (University of Trás-os-Montes and Alto Douro); Adelaide Cerveira (University of Trás-os-Montes and Alto Douro); Leonardo Ramos (University of Trás-os-Montes and Alto Douro); Diogo Leite (University of Trás-os-Montes and Alto Douro); Tiago Pinto (University of Trás-os-Montes and Alto Douro); José Baptista (University of Trás-os-Montes and Alto Douro)*
12:25-12:40	**ID: 31** Title: Reactive Power Compensation Strategies in Utility-Scale PV: Inverter-Only vs Hybrid Capacitor Bank Approach Yaman Abou Jieb (Boise State University)*; Loai Al-Adim (Tafila Technical University); Eklas Hossain (Boise State University)	**ID: 39** Title: Design and Optimization of a Renewable-Based Multi-Energy System for Rural Electrification Felisberto Lopes (University of Trás-os-Montes and Alto Douro); Adelaide Cerveira (University of Trás-os-Montes and Alto Douro); José Baptista (University of Trás-os-Montes and Alto Douro)*
12:40-13:10	LUNCH	
13:10-14:10	Room 1 Session-F5 Session Chair: João Martins (Universidade Nova de Lisboa)	Room 2 Session-F6 Session Chair: Abdérafi Charki (University of Angers)
13:10-13:25	**ID: 180** Title: HOMER Pro-Based Techno-Economic Optimization of a Standalone Residential PV-Wind Microgrid with Hybrid Battery-Hydrogen Storage Buğra Yılmaz (Fırat University); MERVE YILDIRIM (Fırat University)*; Can Özgür Çolpan (Dokuz Eylül University)	**ID: 49** Title: Techno-Economic Evaluation of Integrated Energy Sharing in an Industrial Energy Community: A case study in Sweden Masoume Shabani (Uppsala University)*
13:25-13:40	**ID: 44** Title: Experimental Investigation of Aerofoil-Assisted Flexible Savonius Wind Turbines with Semi-Cylindrical Flow Augmentation Mohamad Farhat (Australian University Kuwait)*; Ahmad Sedaghat (Australian University Kuwait)	**ID: 51** Title: An AI-Driven Single-End DC Signal-Based Method for Fault Detection, Classification, and Precise Fault Localization in HVDC Transmission Lines Faizan-e- Mustafa (Electrical Engineering Department, Pakistan Institute of Engineering and Applied Sciences (PIEAS), Islamabad 45650); M.M.R Ahmed (Electrical Technology Department, Faculty of Technology and Education, Capital University, Cairo); Hasnain Ahmad (KFUPM)*; M.I. Abdel-Fattah (Electrical Technology Department, Faculty of Technology and Education, Capital University, Cairo); Muhammad Majid Gulzar (Control & Instrumentation Engineering Department, KFUPM, Dhahran 31261); A.M. Hamada (Faculty of Industrial and Energy Technology, Borg Al-Arab Technological University, Cairo)

13:40-13:55	**ID: 45** Title: A Bidirectional DC-DC Converter Based on a Hybrid Differential Connection V. Fernao Pires (ESTSetubal/IPS)*; Armando Cordeiro (ISEL-IPL); Daniel Foito (ESTSetubal/IPS); Armando Pires (ESTSetubal/IPS); Daniel Ferreira (CTS-UNINOVA); Joaquim Monteiro (ISEL-IPL)	**ID: 52** Title: SIV-BESS: Proactive Battery State Integrity Verification for Reliable Energy Dispatch in Smart Grids Syed Zohaib Hassan (Department of Computer Science, COMSATS University Islamabad, Sahiwal Campus, Sahiwal); Hasnain Ahmad (KFUPM)*; Muhammad Majid Gulzar (Department of Control & Instrumentation Engineering, King Fahd University of Petroleum & Minerals, Dhahran, 31261); Zafar Iqbal (Department of Computer Science, COMSATS University Islamabad, Sahiwal Campus, Sahiwal); Zeeshan Raza (Department of Computer Science, COMSATS University Islamabad, Sahiwal Campus, Sahiwal)
13:55-14:10	**ID: 46** Title: Power Grid Fault Detection using Lightweight Deep Learning Models Tito Amaral (ESTSetubal/IPS)*; Samuel Pires (ESTSetubal/IPS); Armando Pires (ESTSetubal/IPS); Victor Pires (ESTSetubal/IPS)	**ID: 56** Title: Recent Advances in the Integration of IoT, AI, and Cybersecurity for Photovoltaic Systems: Challenges and Future Directions nassir rouibah (université)*
14:10-15:10	Room 1 Session-F7 Session Chair: Halil Ibrahim Bulbul (Gazi University)	Room 2 Session-F8 Session Chair: Nobumasa Matsui (Nagasaki Institute of Applied Science)
14:10-14:25	**ID: 58** Title: Load Frequency Control of Hybrid Renewable Energy based Power System Gamal Muneer (King Fahd University of Petroleum and Minearls (KFUPM)); Muhammad Majid Gulzar (King Fahd University of Petroleum and Minerals)*; Salman Habib (King Fahd University of Petroleum and Minearls (KFUPM)); Adnan Shakoor (King Fahd University of Petroleum and Minearls (KFUPM))	**ID: 80** Title: Water Pumping Solution based on Multilevel SRM Drive with Single-Stage PV Array and Single-Switch DC-DC Converter Armando Cordeiro (Polytechnic University of Lisbon); Daniel Foito (Polytechnic Institute of Setubal); Armando Pires (Polytechnical Institute of Setubal)*; João Martins (Nova University of Lisbon); Daniel Ferreira (Nova University of Lisbon); Victor Pires (Polytechnic Institute of Setutal)
14:25-14:40	**ID: 68** Title: Distributed Two-Layer Predictive Control for DC Microgrid Clusters With Communication Delays Xiaoran Dai (Wuhan University)*; Zhou Li (Wuhan University); Wenshan Hu (Wuhan University); Zhongcheng Lei (Wuhan University)	**ID: 84** Title: Enhanced Thermal Management and Desalination Performance of an Integrated Concentrating Photovoltaic and Direct Contact Membrane Distillation System Mohammed Dlal (King Fahd University of Petroleum and Minerals)*; Atia Khalifa (King Fahd University of Petroleum and Minerals)
14:40-14:55	**ID: 71** Title: Multi-Variable Analysis of Campus Electricity Consumption: Climate, Occupancy, and Solar Integration Perspectives Mustafa Engin Başoğlu (Gümüşhane University)*	**ID: 85** Title: Design and Implementation of IoT-Based Smart Energy Management System for Solar Power Optimisation Ayodeji Ogunjuyigbe (University of Ibadan); Temitope Ayodele (University of Ibadan); Paul Inyang (University of Ibadan); Richard Olarewaju (Abiola Ajimobi Technical University); Thapelo Mosetlhe (University of South Africa)*; Adedayo Yusuff (University of South Africa)
14:55-15:10	**ID: 419** Title: Optimized Gate Drive and Control Strategies for Wide Bandgap SiC/GaN Power Device Integration in High-Efficiency Converters Erdal Bekiroğlu (Gazi University)*; Bugra Kuruoglu (Gazi University)	**ID: 87** Title: Energy-Aware ViT Compression for Fingerprint Recognition on Renewable-Powered Edge Devices: An Analytical Projection Sezai Furkan Pur (Gazi University)*; Bilgehan Arslan (Gazi University); Seref Sagiroglu (Gazi University)
15:10-16:10	Room 1 Session-F9 Session Chair: Adel Nasiri (University of South Carolina)	Room 2 Session-F10 Session Chair: Mahamadou Abdou Tankari (University of Paris Est Creteil)
15:10-15:25	**ID: 89** Title: Impact of Temperature Dependent Inverter PQ Capability on IEEE Std 2800 Compliance Energy Yield and Project Economics A Study Based on Representative Utility Scale PV Projects Yaman Abou Jieb (Boise State University)*; Hamza Alfukaha (Jordan University of Science and Technology); Eklas Hossain (Boise State University)	**ID: 108** Title: Design and Mechanical Analysis of a Modular Heliostat with Screw-Driven Dual-Axis Tracking for Solar Tower CSP Systems Evren Toygar (Dokuz Eyll University)*; Onur Erol (Dokuz Eylul University)
15:25-15:40	**ID: 90** Title: Comparative Assessment of Tree-Based Regression Models for Solar Energy Forecasting HATİCE ÖZMÜŞ (Mersin Unıversity)*; Gökhan Yüksek (Batman University); Alkan Alkaya (Mersin University)	**ID: 118** Title: Mixture Density Networks with Bayesian Dropout for Probabilistic Domestic Hot Water Load Forecasting Adamantios Bampoulas (University College Dublin)*; Konstantinos Sklavenitis (University College Dublin); Mohammad Saffari (Dublin City University); Eleni Mangina (University College Dublin)
15:40-15:55	**ID: 92** Title: Battery Digital Twin Parameters Calibration using Adam Gradient Descent Optimizer Mahmoud AbouOmar (King Fahd University Of Petroleum & Minerals)*	**ID: 121** Title: Electroluminescence-Based Diagnosis of Photovoltaic Module Degradation and PVDF-Date Extract Coating for Soiling Mitigation KASHIF IRSHAD (Center of Research Excellence in Renewable Energy (CoRE-RE) King Fahd University of Petroleum and Minerals)*; ASIM AHMAD (Interdisciplinary Research Center for Sustainable Energy Systems, King Fahd University of Petroleum and Minerals); FARHEEN ANJUM (Interdisciplinary Research Center for Sustainable Energy Systems, King Fahd University of Petroleum and Minerals); Faisal Hani Alhajji (Interdisciplinary Research Center for Sustainable Energy Systems, King Fahd University of Petroleum and Minerals); Mohd Yusuf Khan (Interdisciplinary Research Center for Sustainable Energy Systems, King Fahd University of Petroleum and Minerals); Shafiqur Rehman (Interdisciplinary Research Center for Sustainable Energy Systems, King Fahd University of Petroleum and Minerals)

15:55-16:10	**ID: 93** Title: Energy Management and Control Strategies for Community Photovoltaic Microgrids in the Amazon Tri-Border Region of Peru, Colombia and Brazil Dr. Sergio Mestas Ramos (Universidad Santa María de Arequipa); Daniel Icaza (Universidad Católica de Cuenca, Cuenca, Ecuador)*; Mtra. María Pinto Rivera (Universidad Santa María de Arequipa)	**ID: 131** Title: Energy Systems with Artificial Intelligence: Methods, Applications, Challenges, and Emerging Frontiers — A Critical Review Medine Colak (Gazi University)*
16:10-17:10	Room 1 Session-F11 Session Chair: Armando Pires (Setúbal Polytechnic University)	Room 2 Session-F12 Session Chair: Vitor Pires (Setúbal Polytechnic University)
16:10-16:25	**ID: 134** Title: Robust Super-Twisting Sliding Mode Observer-Based Fault-Tolerant Control Strategy for Photovoltaic DC-DC Boost Converters Mariem DARDOURI (Université de Lorraine)*; Alexandre DE BERNARDINIS (Université de Lorraine)	**ID: 268** Title: Digital Twin-Enabled Inter-Building Energy Sharing for Net-Zero Energy Communities: A Conceptual Framework Alvaro Llaria (ESTIA)*; Arunachalam Sundaram (University of Salford); Pavithra Ganeshu (University of Salford); Octavian Curea (ESTIA)"
16:25-16:40		**ID: 143** Title: Power Quality Assessment and Harmonic Mitigation Analysis for the Daris Building at the University of Nizwa, Oman ZAINAB AL NADABI (Nizwa University); Ahmed AlBusaidi (Nizwa University)*; Taha ALBUSAIDI (Nizwa University); MOHAMED ABDELGHANI (Nizwa University)
16:40-16:55	**ID: 136** Title: Aligning Stakeholder Incentives for Low-Carbon Industrial Transfer through Multi-Factor Benefit Sharing Qiushi Wang (Anhui University of Science and Technology)*	**ID: 144** Title: H2START: Establishing a Centre of Excellence for Renewable Hydrogen Technologies and Sustainable Energy Transition in Coal Regions Mariapia Martino (Denerg - Politecnico di Torino)*; Daria Vladikova (Trakia University); Ioanna Mincheva (Trakia University); Massimo Santarelli (Denerg - Politecnico di Torino)
16:55-17:10	**ID: 69** Title: Morphology-Engineered Copper Nanocrystals for Highly Selective Direct Methane Oxidation to C2 Oxygenate under Mild Conditions Thahira Saliya (King Fahd University of Petroleum and Minerals)*	**ID: 286** Title: A Non-Invasive IoT Telemetry Methodology for Multi-Site Smart Buildings: Architecture and Virtual Heat Metering Jura ARKHANGELSKI (Université Paris-Est, CERTES)*; Rakibul Hasan (Université Paris-Est, CERTES); Mahamadou Abdou Tankari (Université Paris-Est, CERTES)
17:10-18:10	Room 1 Session-F13 Session Chair: Fabio Viola (Palermo University)	Room 2 Session-F14 Session Chair: Tito Amaral (Setúbal Polytechnic University)
17:10-17:25	**ID: 146** Title: Experimental Validation of an Adaptive Exponential Sensitivity MPPT Controller for PV System Alain Foutche Tchouli (University of Ngaoundere); Claude Bertin Nzoundja Fapi (Université Paris Cité)*; Serge Maxime Fonou (University of Ngaoundere)	**ID: 151** Title: Active Thermal Management of a Vanadium Redox Flow Battery in a Desert Microgrid: A Climate-Coupled Simulation Issa Bosu (KFUPM)*
17:25-17:40	**ID: 147** Title: Active Thermodynamic Control of Lithium-Ion Batteries for Mitigating Lithium Plating in Subzero Climates via Entropy-Based Current Limiting Mehdi Zare (University of Vaasa)*	**ID: 294** Title: A multi-objective capacitated rooted minimum spanning forest model for equitable energy access planning in energy communities Juan González Alzate (Universidad EAFIT)*; Juan Carlos Rivera (Universidad EAFIT); Santiago Bernal del Río (Universidad EAFIT)
17:40-17:55	**ID: 457** Title: AI-based adaptive charging of electric vehicles: a conceptual model for residential photovoltaic systems Mariacristina Roscia ("University of Bergamo, Italy")*; Giuliana Foti (Universita degli Studi di Bergamo); Catalina Lazaroiu (Universitatea Națională de Știință și Tehnologie POLITEHNICA București)	**ID: 165** Title: Preview-Based DC-Link Energy Shaping for Active Front-End Converters Adel Nasiri (University of South Carolina)*; Emerson Miller (University of South Carolina); Yousef Alamri (University of South Carolina); Kerry Sado (University of South Carolina); Emad Sadeghi (University of South Carolina)
17:55-18:10	**ID: 367** Title: Analysis of Degradation Modes in Floating Photovoltaic Systems SALMA Sebbaghi (Angers University)*; Abderafi Charki (Angers University); Zineb Aqachmar (Faculty of Sciences Semlalia); Hassen Riahi (Angers University)	**No presentation in this time slot**

WEDNESDAY, OCTOBER 14

Program Detail of ICRERA 2026, Paris/France, October 14, 2026 (Wednesday)					
OCTOBER 14, 2026 (WEDNESDAY)					
09.00-10.00	Keynote Speech-III (60 Min) Professor Xavier Guillaud Title: Why grid-forming control is needed to continue the integration of renewable energy in power systems? École Centrale de Lille, France Session Chair: Adel Nasiri (University of South Carolina)				
10.00-10.10	BREAK				
10.10-11.10	Keynote Speech-IV (60 Min) Professor Khaled H. Ahmed Title: How Grid-Forming Power Converters are Solving the Stability Crisis of the Renewable Era University of Strathclyde, Glasgow, UK Session Chair: João Martins (Universidade Nova de Lisboa)				
11.10-11.20	MORNING COFFEE BREAK				
OCTOBER 14, 2026 (WEDNESDAY)					
11:20-12:40	Session-F16 Session Chair: Erdal Bekiroglu (Gazi University)	Session-F17 Session Chair: Erdal Irmak (Gazi University)	Session-F18 Session Chair: Massimo Caruso (Palermo University)	Session-F19 Session Chair: Mariacristina Roscia (University of Bergamo)	Session-F20 Session Chair: João Martins (Universidade Nova de Lisboa)
11:20-11:40	**ID: 166** Title: Grid-Forming Control for Stability Enhancement During Islanding and Reconnection of a PV-Integrated Microgrid Abdallah Hamndan (Beirut Arab University); Mohamad Tarnini (Beirut Arab University); Abdallah El Ghaly (Beirut Arab University)*	**ID: 175** Title: A Flexible Wire-Based Thermoelectric Generator to Harvest Waste Heat From Non-Flat Surfaces Jiya Brar (Stockdale High School)*	**ID: 439** Title: Steady-State Analytical Modeling and Parametric Analysis of a Water-Cooled Photovoltaic–Thermal Module Roy Panduro (Université Paris-Est Créteil)*; Pierre-Olivier Logerais (Université Paris-Est Créteil); Mahamadou Tankari (Université Paris-Est Créteil); Gilles Lefebvre (Université Paris-Est Créteil); Victor Nakama (National University of Engineering); Andres Ortiz (Universidade Federal do Rio Grande do Norte)	**ID: 196** Title: Tailored Porous Media for Temperature Uniformity in Liquid-Cooled Mini-Channel Cold Plates for Multi-Device SiC Power Modules Adel Nasiri (University of South Carolina)*; Hooman Taghavi (University of South Carolina); Reza Mounesi (University of South Carolina); Emad Sadeghi (University of South Carolina); Jamil Khan (University of South Carolina)	**ID: 203** Title: Hydrogen Thermal Constraints in Multi-Fuel Engines: A Control-Oriented Multi-Zone Model with Coupled Wall Thermal Dynamics Kian Golbaghi (University of Vaasa)*; Jari Hyvönen (Wärtsilä Oy); Ossi Kaario (Aalto University); Maciej Mikulski (University of Vaasa)

11:40-12:00	**ID: 170** Title: Investing in Decentralized Hydrogen Under Deep Uncertainty: A Case Study Julian Doerr (Fraunhofer IAO)*	**ID: 179** Title: Deep Learning Approach for EV Battery Systems Prediction for Functional Safety Compliance Surendra Reddy Pallamparthi (ZF Active Safety & Electronics US LLC, USA)*; Shobhan Pujari (Battery Systems Engineer Samsung SDI)	**ID: 190** Title: Hardware Implementation and Experimental Validation of an RNN-Based Real-Time Processor Power Estimator on an FPGA Shinichi Kawaguchi (Kanagawa Institute of Technology)*	**ID: 461** Title: Coordinated PFM and Phase-Shift Control of a Medium-Voltage CLLC Resonant Converter Adel Nasiri (University of South Carolina)*; Alperen Altin (University of South Carolina); Emad Sadeghi (University of South Carolina); Emerson Miller (University of South Carolina); Ian Webb (Savannah River National Laboratory)	**ID: 207** Title: Experimental Verification of Deep Reinforcement Learning-Based Buck Converter Control for Renewable Energy Applications Kotaro Obayashi (Chiba University)*; Kenta Koiwa (Shibaura Institute of Technology); Liu Kang-Zhi (Chiba University); Sachiyo Arai (National Institution for Academic Degrees and Quality Enhancement of Higher Education)
12:00-12:20	**ID: 172** Title: Transmission of Renewable Energy via Magnetically Coupled Vibrations Toshihiko Ishiyama (Hachinohe Institute of Technology)*; Kiyoshi Kawamoto (Hachinohe Institute of Technology)	**ID: 181** Title: Water Implications of Low-carbon Hydrogen Scale-up in Great Britain under Technology and Water-Source Transitions Saeed Harati (University of Birmingham)*; Nabila Ahmed Rufa'I (University of Birmingham); Yusuf Chanchangi (University of Exeter)	**ID: 191** Title: Analytical Loss Decomposition of a High-Voltage SiC MOSFET for MV-SST Applications Adel Nasiri (University of South Carolina)*; Yousef Alamri (University of South Carolina); Emerson Miller (University of South Carolina); Emad Sadeghi (University of South Carolina); Ian Webb (Savannah River National Laboratory)	**ID: 297** Title: Torque Ripple Suppression for PMSMs Using d- and q-Axis Resonance Filters Taiki Mikami (Tokyo University of Science)*; Nobukazu Hoshi (Tokyo University of Science)	**ID: 208** Title: Telemetry-Only Day-Ahead PV Forecasting: Machine Learning Beats Persistence at Short Leads but Converges by 24 Hours Omid Shahrokhi (Heriot-Watt University)*; Gavin J. Irvine (University of St Andrews); John T. S. Irvine (University of St Andrews); M. Mercedes Maroto-Valer (Heriot-Watt University); John M. Andresen (Heriot-Watt University)
12:20-12:40	**ID: 174** Title: Harmonic Mitigation in Grid-Connected Photovoltaic System Using a Double-Tuned Passive Filter rabah mansouri (University of Bejaia)*; Toufik Rekioua (University of Bejaia); Djamila Rekioua (University of Bejaia); Pierre-Olivier Logerais (Univ Paris Est Créteil); Mahamadou Abdou Tankari (Univ Paris Est Créteil)	**ID: 184** Title: Dynamic Vehicle-to-Shelter Dispatch under Evolving Outages and Staged Electric Vehicle Availability ZHANG CHENGQUAN (Institute of Science Tokyo)*; Hiroshi Kitamura (NEC Corporation); Mika Goto (Institute of Science Tokyo)	**ID: 192** Title: Load-Independent Class-EF-D SIMO WPT System Considering Coupling-Coil Parasitic Capacitance and Mutual Inductive Coupling Sora Uehara (Chiba institute of technology)*; Tomoya Akasaka (Chiba institute of technology); Chiharu Yatsuda (Chiba institute of technology); Xiuqin Wei (Chiba institute of technology)	**ID: 299** Title: Industrial Perspectives on Future Power Electronics and Energy Storage Systems in Southern Denmark and Northern Germany Ramkrishan Maheshwari (University of Southern Denmark)*; Mohamed Atef Tawfik Abdelkader (University of Southern Denmark); Soumyabrata Patra (University of Southern Denmark); Kasper Mayntz Paasch (University of Southern Denmark); Henrik Andersen (University of Southern Denmark); Thomas Ebel (University of Southern Denmark); Wulf-Toke Franke (Danfoss Power Electronics and Drives A/S); Bachmann-Schebel Ole (Motor Competence Center Holding Flensburg GmbH, , A Secop Company); Murakami Eric (Motor Competence Center Holding Flensburg GmbH, , A Secop Company); Peter Gravesen (Linak A/S); Benoît Bidoggia (Topsil); Gustav Nebel (Sønderborg Vækstråd)	**ID: 209** Title: A Priori Daily-Profile Load Domains from Contractual Information: Cluster-Conditioned Empirical Bands Validated on 2,000 Belgian Smart Meters Ali Bagheri (Cenaero)*; Cécile Goffaux (Cenaero)
12:40-13:30	LUNCH				

OCTOBER 14, 2026 (WEDNESDAY)

13:30-15:30	Session-F21 Session Chair: Nobumasa Matsui (Nagasaki Institute of Applied Science)	Session-F22 Session Chair: Halil Ibrahim Bulbul (Gazi University)	Session-F23 Session Chair: Vitor Pires (Setúbal Polytechnic University)	Session-F24 Session Chair: Adel Nasiri (University of South Carolina)	Session-F25 Session Chair: Mustapha Karkri (University of Paris-Est Creteil)
13:30-13:50	**ID: 212** Title: Stakeholder Tensions in the Emerging Field of GM Biofuels Jouni Juntunen (University of Vaasa)*; Mehedi Hasan (Wärtsilä Oy); Roji Karki (Wärtsilä Oy)	**ID: 216** Title: Basic Study of a Novel 3L-NPC Full-Scale Converter for Variable-Speed Wind Turbines Taiga Yamaguchi (Chiba University)*; Kenta Koiwa (Shibaura Institute of Technology); Kang-Zhi Liu (Chiba University)	**ID: 223** Title: Subterranean Geothermal Vaulting and Cryptographic Attestation for Secure BESS Deployment in Extreme Off-Grid Environments Khaled Aqeel (Saudi Aramco)*	**ID: 228** Title: Expansion of the temperature range for maximizing power generation in directly connected PV-battery systems Yasuyuki Kanai (Exeo Group, Inc.)*; Fujio Kurokawa (Nagasaki Institute of Applied Science)	**ID: 233** Title: Experimental Verification of a Variable Magnetomotive Force Memory Motor Using Magnetization Windings and Diodes Manari Mizuno (Meiji university)*; Kazuto Sakai (Meiji University); Sari Maekawa (Meiji University)
13:50-14:10	**ID: 213** Title: Load-Independent Inverse Class-E DC-DC Converter Ayano Komanaka (Chiba University)*; Yinchen Xie (Chiba University); Wenqi Zhu (Tokyo University of Science); Xiuqin Wei (Chiba Institute of Technology); Kien Nguyen (Chiba University); Hiroo Sekiya (Chiba University)	**ID: 160** Title: Electro-Thermal Design and Control of a 300 kW Five-Phase Bidirectional DC/DC Converter for eVTOL Applications Andre MRAD (Capgemini France); Michel Bareille (Capgemini France); Youssef Hennane (Capgemini France); Andre MRAD (Capgemini France)*	**ID: 224** Title: Cross-Climatic Assessment of PV, Wind, and Hybrid PV–Wind Systems: Energy Yield, Stability, and Carbon Benefits in Amman and Paris Sameer Altawabini (Alhussein Technical University)*; Aya El Khalili (Al-Hussein Technical University)	**ID: 229** Title: Comprehensive Energy Transition on Real-World Data For Charging Infrastructure Andrea Di Martino (Politecnico di Milano)*; Sofia Borgosano (Politecnico di Milano); Michela Longo (Politecnico di Milano)	**ID: 234** Title: CO_2 Biomethanation and Renewable Natural Gas Storage in Depleted Reservoirs: An Innovative Recyclable Energy System Michael Zhengmeng Hou (Clausthal University of Technology); Lin Wu (Clausthal University of Technology); Nan Cai (TU Clausthal)*

14:10-14:30	**ID: 214** Title: Modified High-Gain Boost Converter Felix Himmelstoss (UAS Technikum Wien); Johannes Gragger (UAS Technikum Wien)*	**ID: 221** Title: "Distributed Residential and Institutional Photovoltaic Self-Consumption in Island Microgrids: Profitability Gradient in San Cristóbal Island, Galápagos" Edgar Cuzco (unach)*	**ID: 225** Title: A Multi-Criteria AHP Framework for Energy-Efficient Residential Facade Envelope Selection in a Hot-Dry Climate AYA ELKHALILI (Al Hussein Technical University)*; Batool Al Karaha (University of Petra); Hadeel Abu-Amra (German Jordanian University); Emhaidy Gharaibeh (German Jordanian University); Sameer Altawabini (Al Hussein Technical University)	**ID: 231** Title: High-Accuracy Low-Speed Sensorless Control Using Dynamic Range ADC and Shunt Current Delay Compensation Kaito Watanabe (Meiji University)*; Sari Maekawa (Meiji University)	**ID: 235** Title: Reduction in Transmission Power Error in Primary-Side Power Control with a Current Envelope Model for Wireless Power Transfer for AGVs Tomoki Doi (Nagaoka University of Technology)*; Keisuke Kusaka (Nagaoka University of Technology)
14:30-14:50	**ID: 215** Title: A Grid-Forming-based Back-to-Back Converter for Microgrids Stability Enhancement Takumi Hiroshima (Chiba university)*; Kenta Koiwa (Shibaura Institute of Technology); Kang-Zhi Liu (Chiba University)	**ID: 222** Title: A Pre-Synchronization Control for VSG-GFM Inverter to Achieve Seamless Transition Between Islanded and Grid-Connected Operations Mei-Fang Wang (National Sun Yat-sen University); Yen-Rung Lin (National Sun Yat-sen University); Ting-Yu Lin (National Sun Yat-sen University); Tzung-Lin Lee (National Sun Yat-sen University)*	**ID: 227** Title: Cold-Weighted Irreversible Entropy Generation for Low-Temperature SOH Estimation of Lithium-Ion Batteries: a pseudo-two-dimensional approach Mehdi Zare (University of Vaasa)*	**ID: 232** Title: A Benchmarking of Control Algorithms for a Simulated Retractable Wind Energy Harvester Guy Gadola (Youngstown State University)*; Daniel Mossé (University of Pittsburgh)	**ID: 312** Title: Assessing building energy needs and solar thermal integration through experimental testing and model-based approach : A Testing Lab case study Joshua Piñas (CERTES)*; Jura Arkhangelski (CERTES); Mahamadou Abdou Tankari (CERTES)
14:50-15:30	BREAK				
15.30-15.40	AFTERNOON COFFEE BREAK				
15:40-17:00	Session-F26 Session Chair: Fabio Viola (Palermo University)	Session-F27 Session Chair: Erdal Bekiroglu (Gazi University)	Session-F28 Session Chair: Armando Pires (Setúbal Polytechnic University)	Session-F29 Session Chair: Tito Amaral (Setúbal Polytechnic University)	Session-F30 Session Chair: Khaled Ahmed (Strathclyde University)
15:40-16:00	**ID: 150** Title: Utilization of Battery Energy Storage Systems for Meeting Ramp Rate Requirements in Wind Farms Genki Imai (Electric Power Development Co., Ltd.)*; Kazushi Mimura (Electric Power Development Co., Ltd.); Norio Komiyama (Electric Power Development Co., Ltd.)	**ID: 257** Title: Simulating Negative Corona Inception Voltages at Different Air Pressures Jordi-Roger Riba (Universitat Politècnica de Catalunya)*	**ID: 358** Title: Digital and Live FMEA Framework with Knowledge Graphs for Anomaly-Based Decision Support in Software-Defined Connected Electric Vehicles Akash Kadechkar (Nvision); Edgar Baldelomar (Intera Group)*	**ID: 267** Title: Optimal Harmonic Mitigation in the DC-link of Parallel Converters Under Distorted and Unbalanced AC Grid Conditions Guillermo Huerta (Eindhoven University of Technology)*; Maurice Roes (Eindhoven University of Technology); Georgios Papafotiou (Eindhoven University of Technology)	**ID: 236** Title: Filter-Inductor Current Sensorless Control within IRM-ILQ Optimal Current Control for PMSM with Inverter Output LC-filter Kazuki Abe (Shibaura Institute of Technology)*; Kohei Aiso (Shibaura Institute of Technology); Hiroshi Takami (Shibaura Institute of Technology)
16:00-16:20	**ID: 256** Title: Operating Characteristics of a DC-AC Converter Consisting of a Multilevel Converter and a Linear Circuit Ryoji Tsuruta (Mitsubishi Electric Corporation)*; Takahiro Urakabe (Institute of Science Tokyo); Hideaki Fujita (Institute of Science Tokyo)	**ID: 259** Title: Physics-Informed Multivariate Graph Neural Networks for Fault Isolation in Smart Building HVAC Systems Rakibul Hasan (Université Paris-Est, CERTES)*; Sarra Bendahou (Université Paris-Est, CERTES); Jura ARKHANGELSKI (Université Paris-Est, CERTES); Mmaduabuchukwu Kanu (Université Paris-Est, CERTES); Mahamadou Abdou Tankari (Université Paris-Est, CERTES); Mustapha Karkri (Université Paris-Est, CERTES)	**ID: 265** Title: A Compact and Competitive Profile-Based Month-Conditional Diffusion Model for Day-Ahead PV Forecasting Without Weather Data Guillaume Habault (KDDI Research, Inc.)*	**ID: 269** Title: Simulation of Parallel Regenerative Braking Control Strategy in a Mini Electric Vehicle Cansu AY GÖKÇE (KARADENIZ TECHNICAL UNIVERSITY)*; Zehra ŞAHİN (KARADENIZ TECHNICAL UNIVERSITY); Abdullah DEMİR (MARMARA UNIVERSITY)	**ID: 272** Title: Kazakhstan's Energy Demand and CO_2 Emissions Pathways to 2060: a LEAP-Based Business-as-Usual (BAU) scenario analysis Gulden Ormanova (Astana IT University)*; Lunara Rakhymbay (Astana IT University); Nurkhat Zhakiyev (Astana IT University); Ruslan Omirgaliyev (Astana IT University)
16:20-16:40	**ID: 301** Title: Financial and Economic Assessment of a DC Microgrid: A Comparative Study of Northern and Southern Nigeria Mmaduabuchukwu Kanu (Univer. Paris Est Creteil)*; Rakibul Hasan (Univ. Paris-Est Cr´eteil (UPEC) Creteil, France); Mahamadou Abdou Tankari (Univ. Paris-Est Cr´eteil (UPEC) Creteil, France); Pierre-Olivier Logerais (Univ. Paris-Est Cr´eteil (UPEC) Creteil, France); Jura Arkhangelski (Univ. Paris-Est Cr´eteil (UPEC) Creteil, France); Kelechi Okoye (Nnamdi Azikiwe University Awka Awka, Nigeria)	**ID: 258** Title: Impact of Class Imbalance, Environment, and Contrast Enhancement on UAV-Based Photovoltaic Defect Detection Omar Saleh (VSB TUO)*; Jan Platoš (VSB TUO)	**ID: 266** Title: Power Management System for Smart Grid using Adaptive Fuzzy Logic Control Claude Bertin Nzoundja Fapi (Université Paris Cité)*; Tchakounté Hyacinthe (University of Ngaoundere)	**ID: 270** Title: Endogenous Multi-Objective Optimization and Risk Assessment of Hybrid Renewable Energy Systems via GMM and Conditional Clustering Charukhesh Balaji Rakesh (Indian Institute of Technology Madras)*; Raghunathan Rengaswamy (Indian Institute of Technology Madras); Ranganathan Srinivasan (Indian Institute of Technology Madras)	**ID: 329** Title: Multivariate Transformer-Based Load Forecasting for Quantum-Enhanced Energy Management Adel Nasiri (University of South Carolina)*; Umar Jamil (University of South Carolina); Emad Sadeghi (University of South Carolina)

16:40-17:00	**ID: 302** Title: Development of 10kW Rim-Driven Small-Scale Hydropower Generator using Wastewater from Land-Based Aquaculture Facilities Baesung Kim (RIMS)*; Dongwook Kim (RIMS); Hyuntae Jung (GRAMM)	**ID: 260** Title: Wind Drought–Heatwave Compound Events and LCOE in China: A Joint Spatial Assessment Xi Huang (Southeast University)*; Guangsheng Pan (Southeast University); Wei Gu (Southeast University); Zhongfan Gu (Southeast University)		**ID: 342** Title: A Multi-Scale and Multi-Source Framework for Latent Fault Detection in a Commercial Photovoltaic System Venkata Ramana Posa (Université Paris Est, CERTES, IUT de Sénart-Fontainebleau); Pierre-Olivier Logerais (Université Paris Est, CERTES, IUT de Sénart-Fontainebleau)*; Mahamadou Abdou Tankari (Université Paris Est, CERTES, IUT de Créteil-Vitry); Olivier Riou (Université Paris Est, CERTES, IUT de Sénart-Fontainebleau); Fabien Delaleux (Université Paris Est, CERTES, IUT de Sénart-Fontainebleau); Abdérafi Charki (Université d'Angers, LARIS)	**ID: 271** Title: Profitability Optimization of a Biomass-Solar-BESS Hybrid Power Plant Under Fuel Cost and Equipment Degradation Tekmile Cürebal (Karadeniz Technical University)*; Anıl Badem (Oltan Köleoğlu Energy); Doğan Erdemir (Ontario Tech University); Alican Cürebal (Oltan Köleoğlu Energy)
17:00-18:00	Session-F31 Session Chair: Massimo Caruso (Palermo University)	Session-F32 Session Chair: Erdal Irmak (Gazi University)	Session-F33 Session Chair: Halil Ibrahim Bulbul (Gazi University)	Session-F34 Session Chair: Mahamadou Abdou Tankari (University of Paris Est Creteil)	Session-F35 Session Chair: Korhan Kayisli (Gazi University)
17:00-17:20	**ID: 275** Title: Simulation-Based Assessment of a PV–PEMFC– Battery Hybrid System for an Isolated DC Microgrid Marius Dranca (Technical University of Cluj-Napoca, Romania)*; Daniel Fodorean (Technical University of Cluj-Napoca); Mircea Răceanu (ICSI Energy, National Research and Development Institute for Cryogenic and Isotopic Technologies 240050 Râmnicu Vâlcea); Elena Carcadea (ICSI Energy, National Research and Development Institute for Cryogenic and Isotopic Technologies 240050 Râmnicu Vâlcea)	**ID: 310** Title: Development of an OCR Safety Fallback System for AI-based Grid Control using a Power-Hardware-in-the-Loop Test Bench Andreas Stadler (Helmut Schmidt University)*; Yuzhuo Fu (Helmut Schmidt University); SiZhong Hu (Helmut Schmidt University); Silas Maletti (Helmut Schmidt University); Maik Plenz (Helmut Schmidt University); Detlef Schulz (Helmut Schmidt University)	**ID: 291** Title: Experimental and Model-Based Optimization of Small Wind Turbine Power via Blade Geometry and Count Esra Aydın (Istanbul Technical University)*; Hazal Zahter (Istanbul Technical University); Cenk Andiç (Istanbul Technical University); Taylan Özgür Bilgiç (Istanbul Technical University); Belgin Türkay (Istanbul Technical University)	**ID: 298** Title: Integrating Energy Price Signals into Smart EV Charging Responding to the Supply Voltage Gerald Franzl (University for Continuing Education Krems - DISS)*; Mariia Forkaliuk (Vinnytsia National Technical University - AIIT); Stefan Wilker (TU Wien - ICT); Oleh Bisikalo (Vinnytsia National Technical University - AIIT); Albert Treytl (University for Continuing Education Krems - DISS)	**ID: 456** Title: Impact of Climate-Dependent Cooling Loads on PV-BESS Sizing for a Data Center Microgrid Deren Yuksekulku (Bahcesehir University); Gurkan Soykan (Bahcesehir University)*
17:20-17:40	**ID: 276** Title: AIS-Driven Fuzzy Logic Scheduling for a Mobile Battery-Powered Barge Serving Offshore Anchored Vessels Somayeh Vahabi (Aalborg Universitet); Kasper Jessen (Aalborg University); Simon Pedersen (Aalborg University); Amin Hajizadeh (Aalborg University)*	**ID: 357** Title: A Framework for the Implementation of Sustainable Smart Technologies for the Construction Sector in the Sultanate of Oman Dr Shurooq Al Balushi (National University)*	**ID: 292** Title: Electromagnetic Interference Modeling up to 100 MHz of an All-in-One Electric Compressor Based on Shielded-Cable High-Frequency Characteristics Kotomi Mori (Meiji University)*; Sari Maekawa (Meiji University); Kazuki Asahina (Toyota Industries Corporation)	**ID: 137** Title: Battery Cycling-Aware Energy Management for Peak Shaving in a Real PV-Battery Microgrid Kemal Polat (Bolu Abant Izzet Baysal University); Muhammed Duran Yazar (Bolu Abant Izzet Baysal University)*	**ID: 106** Title: Study of a Hybrid Wind-Battery System for Rural Electrification in Sansalé District in Guinea Ibrahima Touré (University of Le Havre Normandie); Nènè Aissata Baldé (Institut Supérieur de Technologie); Claude Bertin Nzoundja Fapi (Université Paris Cité); Mamadou-Baïlo Camara (University of Le Havre Normandie); Alizera Payman (University of Le Havre Normandie); Brayima Dakyo (University of Le Havre Normandie)
17:40-18:00	**ID: 281** Title: Experimental Validation of Open-Loop-Based Control for Synchronous Reluctance Motors Under Load Hinako Teranishi (Meiji University)*; Sari Maekawa (Meiji University); Ryota Nakanami (Fuji Electric Co., Ltd.); Koroku Nishizawa (Fuji Electric Co., Ltd.); Hiroaki Ueta (Fuji Electric Co., Ltd.); Satoru Fujita (Fuji Electric Co., Ltd.); Ikuya Sato (Fuji Electric Co., Ltd.)	**ID: 77** Title: Research on the Low-Carbon Transition Pathway of China's Power Sector Jianmin Wang (Anhui University of Science and Technology)*	**ID: 296** Title: Hierarchical Economic MPC for Multi-Source DC Microgrids Mouhamadou falilou Ndiaye (Ucad)*	**ID: 27** Title: An ESG-Based Framework for Energy Management in Building Operations and Maintenance Obaid Ahmed Shah (King Fahd University of Petroleum and Minerals)*; Muhammad Asif (King Fahd University of Petroleum and Minerals); Ernest Effah Ameyaw (King Fahd University of Petroleum and Minerals); Muhammad Moiz Khan (King Fahd University of Petroleum and Minerals)	**ID: 343** Title: Embedded Implementation of an Adaptive MPPT Strategy and Photovoltaic Surplus Routing on ESP32 Alain Foutche Tchouli (University of Ngaoundere); Armel Duvalier Pene (University of Ngaoundere); Serge Maxime Fonou (University of Ngaoundere); Claude Bertin Nzoundja Fapi (Université Paris Cité)*
19.00-22.00	Gala Dinner (Angelina Rivoli, 226 Rue de Rivoli, 75001, Paris)				

THURSDAY, OCTOBER 15

Program Detailof ICRERA 2026, Paris/France, October 15, 2026 (Thursday)					
OCTOBER 15, 2026 (THURSDAY)					
09.00-10.00	Keynote Speech-V (60 Min) Mr. Kensuke Miyano Title: Power Electronics Technology to Realize the Carbon-Neutral Society TMEIC, Japan Session Chair: Khaled Ahmed (Strathclyde University)				
10.00-10.10	BREAK				
10.10-11.10	Keynote Speech-VI (60 Min) Professor João Martins Title:Enhancing Electrical Grid Robustness Against Climate Extremes Universidade Nova de Lisboa, Portugal Session Chair: Armando Pires (Setúbal Polytechnic University)				
11.10-11.20	MORNING COFFEE BREAK				
OCTOBER 15, 2026 (THURSDAY)					
11:00-12:40	Session-F36 Session Chair: Tito Amaral (Setúbal Polytechnic University)	Session-F37 Session Chair: Vitor Pires (Setúbal Polytechnic University)	Session-F38 Session Chair: Halil Ibrahim Bulbul (Gazi University)	Session-F39 Session Chair: Jura Arkhangelski (University of Paris-Est Creteil)	Session-F40 Session Chair: Fabio Viola (Palermo University)
11:00-11:20	**ID: 303** Title: Optimization of rooftop shading computation for photovoltaic potential assessment Jaume Asensio (Universitat Politècnica de Catalunya)*; Pablo Moreno (Universitat Politècnica de Catalunya); Marc Girona-Badia (Centre Internacional de Mètodes Numèrics en Enginyeria (CIMNE)); Gerard Laguna (Centre Internacional de Mètodes Numèrics en Enginyeria (CIMNE)); Álvaro Luna (Universitat Politècnica de Catalunya)	**ID: 7** Title: Interior Permanent Magnet Synchronous Motor Maximum Power per Amper and Maximum Torque per Amper Control Strategy Hashim Alnami (Jazan Uinversity)*	**ID: 197** Title: A Scenario-Based Structural Price-Formation Model for the Türkiye Day-Ahead Market with BESS and Demand Response Ahmet Husrev Ipekli (Gazi University); Hidir Duzkaya (Gazi University)*	**ID: 335** Title: Hydrogen Production by PEM Electrolyzer, AFE Converter and Offshore Wind Energy Lourenço Dias (University of Porto - Faculty of Engineering); António Martins (University of Porto - Faculty of Engineering)*; Ahmar Farooque (University of Porto - Faculty of Engineering)	**ID: 340** Title: Training a DNN Rotor-Flux Estimator for Induction-Machine Drives Patrick Mederitsch (TU Wien)*; Markus Vogelsberger (ALSTOM); Uwe Drofenik (TU Wien)

11:20-11:40	**ID: 304** Title: Evaluating the role of Solar PV Microgrids in Enhancing Resilience Globally Aaron Omar Colina Calvo (UPEC/UNI)*; Mahamadou Adbou Tankari (UPEC); Victor Luis Nakama Martinez (UNI); Pierre-Olivier Logerais (UPEC); Andrés Honrubia Escribano (Universidad de Castilla-La Mancha); Aaron Ortiz Peña (Universidad de Castilla-La Mancha)	**ID: 425** Title: ILQ Optimal Suspension Control for a Permanent Magnet Bearingless Motor Junya Yamamoto (Shibaura Institute of Technology)*; Kazuki Abe (Shibaura Institute of Technology); Kohei Aiso (Shibaura Institute of Technology)	**ID: 330** Title: Current Stress Reduction in WPT Systems under Changes in Coupling Coefficient by VSI/CSI Switching Shunsuke Hino (Nagaoka University of Technology)*, Shunsuke Hino (Nagaoka University of Technology) Keisuke Kusaka (Nagaoka University of Technology)	**ID: 337** Title: Overmodulation Control Based on Current Phase Angle with Adjustable Transition Position Sho Morita (Tokyo University of Science)*; Keitaro Kawarazaki (Tokyo University of Science); Nobukazu Hoshi (Tokyo University of Science)	**ID: 264** Title: Generalized Sequence Decomposition for Grid-Tied Converters Under Distortion and Unbalance Guillermo Huerta (Eindhoven University of Technology)*; Maurice Roes (Eindhoven University of Technology); Georgios Papafotiou (Eindhoven University of Technology)
11:40-12:00	**ID: 305** Title: Employment, Safety and Progress in Hydropower Projects of Himachal Pradesh: A Qualitative Study of Women's Experiences Pratishtha Singh (Panjab University)*; Simran Kaur (Panjab university)	**ID: 315** Title: Development and DC Power-Flow Assessment of a Synthetic Transmission Network for Türkiye Taylan Özgür Bilgiç (Istanbul Technical University)*; Belgin Türkay (Istanbul Technical University)	**ID: 332** Title: Dynamic Power Allocation and Electrolyzer Performance in a Renewable–SMR Hybrid Energy System Jongmin Park (KEPCO Engineering & Construction Company, Inc.)*	**ID: 338** Title: Offshore Wind Farms Supplying Electrolyzers: Comparative Analysis of Power Converters Ahmar Farooque (University of Porto)*; Antonio Martins (University of Porto); Husnain Jawad (University of Porto); Jose Vicente (University of Porto); Andre Nogueira (Efacec Energia)	**ID: 444** Title: Dynamics of Indoor CO2 and Temperature for Energy Management: A Study in a Japanese Elderly Care Facility Waka Nakayama (Nagasaki Insutitute of Applied Science)*; Yuji Mizuno (Osaka Electro-Communication University); Jiyoung Choi (Nagasaki Institute of Applied Science); Kaede Yamasaki (Nagasaki Institute of Applied Science); Nobumasa Matsui (Nagasaki Institute of Applied Science)
12:00-12:20		**ID: 239** Title: Predictive Scheduling to Prevent Rebound Peaks in Multi-Resource Demand Response: Power-Saving Challenges and Battery Storage DIFEI MIYAO (NTT DOCOMO, INC.)*; MASAKI NAKAMURA (NTT DOCOMO, INC.)	**ID: 333** Title: The Cost of Topology Generality in Learned Power-Flow Surrogates for EV-Loaded Distribution Grids SiZhong Hu (Helmut-Schmidt-University Hamburg)*; Andreas Stadler (Helmut-Schmidt-University Hamburg); Maik Plenz (Helmut-Schmidt-University Hamburg); Detlef Schulz (Helmut-Schmidt-University Hamburg)		**ID: 346** Title: Long- to Medium-Term Energy Forecasting with Fuzzy Logic via Weather Parameters and Study of Different Seasonal Cases Doruk Can Ul (Istanbul Technical University); Gulcihan Ozdemir (Istanbul Technical University)*
12:20-12:40	BREAK				
12:40-13:30	LUNCH				
Program Detail of ICRERA 2026, Paris/France, October 15, 2026 (Thursday)					
OCTOBER 15, 2026 (THURSDAY)					
13:30-15:30	Session-F41 Session Chair: Armando Pires (Setúbal Polytechnic University)	Session-F42 Session Chair: Khaled Ahmed (Strathclyde University)	Session-F43 Session Chair: Nobumasa Matsui (Nagasaki Institute of Applied Science)	Session-F44 Session Chair: Erdal Irmak (Gazi University)	
13:30-13:50	**ID: 79** Title: From Waste to Resource: Critical Material Recovery and Silicon Upcycling from End-of-Life c-Si PV Modules Betül Aksoy (Ege University)*; Yasemin Ozliman (Ege University); Melih Soner Çeliktaş (Ege University)	**ID: 361** Title: Conformal Risk-Limited Event-Triggered Control for Smart Buildings in Hot Climates Ameni Boumaiza (Hamad Bin Khalifa University Qatar Environment & Energy Research Institute)*; Furkan Ahmad (HBKU)	**ID: 543** Title: State of Health Analysis for Large-Scale Lithium-Ion Batteries based on Gaussian Process Regression Machine Learning Grant Fischer (University of Kentucky)*; Rishab Nanduri (University of Kentucky); Dan M. Ionel (University of Kentucky)	**ID: 421** Title: Energy and Economic Performance of a residential PV system with battery storage: a real-data case study in Portugal Sérgio Vacas (Polytechnic University of Setúbal); José Sousa (Polytechnic University of Setúbal)*	
13:50-14:10	**ID: 350** Title: Discrete Fuzzy Supervisory Control of Parallel Pumps for Integrated Water-Energy Management in a PV-Wind-Battery System Mouhamadou falilou Ndiaye (Ucad)*; Souleymane Soumah (Université CHEIKH ANTA DIOP); Oumar Cissé (Université Iba der THIAM); Talaké chadrack ABLY (Université CHEIKH ANTA DIOP); Vincent Sambou (Université CHEIKH ANTA DIOP)	**ID: 362** Title: Neural Network Solvers for Multi-Period DC-OPF Aurélien Hazan (LISSI)*; Jura Arkhangelski (CERTES); Mahamadou Abdou Tankari (CERTES)	**ID: 551** Title: WIRELESS CHARGING TECHNOLOGIES FOR ELECTRIC VEHICLES: RECENT DEVELOPMENTS IN ELECTRICAL ENGINEERING Abdou Tankari Mahamadou (University of Paris Est Creteil, Certes Lab.); Sushil Kumar Bhoi (Government College of Engineering Kalahandi, Bhawanipatna,India)*; Subhransu Sekhar Dash (Government College of Engineering Kalahandi, Bhawanipatna,India); COLAK Ilhami (Istinye University, Turkey)	**ID: 488** Title: Structure and Control of a Dual-Axial-gap type Magnetic Multiple Spur Gear Tsubasa Kameyama (Shibaura Institute of Technology)*; Kohei Aiso (Shibaura Institute of Technology)	

14:10-14:30	**ID: 354** Title: Sizing of a Grid-Connected PV-Battery System for a Pilot-Scale BWRO Unit: A Case Study Based on Real Groundwater Quality Data from Sfax, Tunisia Imen BEN HAMIDA (University of Monastir)*	**ID: 230** Title: An Energy-Efficient Autonomous Offensive AI Evaluation for Smart Grid Cyber Resilience: KA'OS Hamza Aytaç DOĞANAY (Gazi University)*; Halil İbrahim BÜLBÜL (Gazi University)	**ID: 472** Title: Drive Motor Switching Method for a System Integrating Magnetic Gears and Multiple Motors YOSHIKI SATO (Shibaura institute of technology)*; Kohei Aiso (Shibaura institute of technology)		
14:30-14:50	**ID: 360** Title: Smart Energy Planning using Digital Twins for a 100% Renewable System in the Galapagos Islands with a view to 2060 Daniel Antonio Jiménez Criollo (Universidad Politécnica Salesiana); Crystyan Israel Castro Bravo (Universidad Politécnica Salesiana); Daniel Icaza (Universidad Católica de Cuenca, Cuenca, Ecuador)*; Mauricio Siguencia (Universidad Católica de Cuenca)	**ID: 262** Title: Development of a Multi Stage Pumping Strategy to Enhance Frequency Stability in Pumped Storage Hydropower Plants Cenk Andic (Istanbul Technical University)*; Iclal Aktas (Istanbul Technical University); Rahime Yuzbasi (Istanbul Technical University); Ayca Demirbas (Istanbul Technical University); Hazal Zahter (Istanbul Technical University); Esra Aydin (Istanbul Technical University); Taylan Ozgur Bilgic (Istanbul Technical University); Belgin Turkay (Istanbul Technical University)	**ID: 117** Title: Practices and Processes for delivering lab-scale and full-scale electrical demonstration systems in an academic environment Andrew Hutchinson (University of Sheffield)*; Matt Smith (University of Sheffield); Maria Nunez Munoz (University of Sheffield); George Hind (University of Sheffield); Erica Ballantyne (University of Sheffield); Martin Foster (University of Sheffield); David Stone (University of Sheffield); Dan Gladwin (University of Sheffield)	**ID: 43** Title: Comparative Performance Analysis of MPPT Control Methods for a Hybrid Fuel Cell–TEG powered Motor Drive System* Ruhi Zafer Caglayan (TED University); Korhan Kayisli (Gazi University)*; Firat Hardalac (Gazi University)"	
14:50-15:30	BREAK				
15.30-15.40	AFTERNOON COFFEE BREAK				
15:40-17:00	Session-F45 Session Chair: João Martins (Universidade Nova de Lisboa)	Session-F46 Session Chair: Aurélien Hazan (University of Paris-Est Creteil)	Session-F47 Session Chair: Massimo Caruso (Palermo University)	Special Session-SS1 Title: Digital Twin Approach for Sustainable Electric Mobility Systems Session Chair: Andrea Di Martino (Politecnico di Milano)	
15:40-16:00	**ID: 465** Title: Machine Learning-Based Control Parameter Design for Feedback Gain-Switching DC–DC Converter Yudai Furukawa (Nagasaki Institute of Applied Science)*; Kazuhiro Hamakawa (Nagasaki Institute of Applied Science); Kazuhiro Kajiwara (Nagasaki Institute of Applied Science); Masaharu Tanaka (Nagasaki Institute of Applied Science); Fujio Kurokawa (Nagasaki Institute of Applied Science)	**ID: 442** Title: Risk-Averse Linepack Scheduling for Integrated Electricity–Gas Systems under Heatwave-Induced Fuel Demand Uncertainty Ahmad Alnakhli (Prince Sultan University)	**ID: 280** Title: Estimation and Utilization of EV Flexibility in LV Grids Through Attention-Based Deep Learning Model with Improved Interpretability Yuzhuo Fu (Helmut Schmidt University)*; Maik Plenz (Helmut Schmidt University); Detlef Schulz (Helmut Schmidt University)	**ID: 300** Title: A Multi-Criteria Decision-Making Framework Based on AHP-TOPSIS for the Life Cycle Sustainability Assessment of Battery Energy Storage Systems: Application to the city of Creteil Luis RUIZ (CERTES)*; Jura Arkhangelski (CERTES); Mahamadou Abdou Tankari (CERTES); Gilles Lefebvre (CERTES); Helene Peton (IRG)	
16:00-16:20	**ID: 441** Title: Mitigating Mismatch Losses in Partially Shaded PV Arrays: A Comparative Analysis of Static Reconfiguration Strategies MIMOUN Ilyas (University of Tiaret)*; Mokhtar Sana (Ecole Normale Supérieure d'Oran Ammour Ahmed (ENSO)); LOGERAIS Pierre-Olivier (Univ Paris-Est Créteil); M. AboRas Kareem (University of Alexandria); Tankari Mahamadou Abdou (Univ Paris-Est Créteil)	**ID: 471** Title: Development and Experimental Validation of an Indoor Photovoltaic Characterization Platform Using Liquid Infrared Filtering and Electro-Thermal Control Abdelhakim Belkaid (Bejaia University)*; Debiche AMIROUCHE (University of Bordj Bou Arreridj); Seddik BENHADOUGA (University of Bordj Bou Arreridj); Ilhami COLAK (Istinye University); Boualem BOUKEZATA (University of Bordj Bou Arreridj); Mounir MEDDAD (University of Bordj Bou Arreridj); Raouf ZERROUGUI (University of Bordj Bou Arreridj)	**ID: 426** Title: Stochastic modeling of solar radiation for optimal management of stand-alone microgrid supplying a cluster of houses Paulisimone RASOAVONJY (University of Paris Est Créteil)*; Mahamadou ABDOU TANKARI (University of Paris Est Créteil); Mustapha KARKRI (University of Paris Est Créteil); Pierre-Olivier LOGERAIS (University of Paris Est Créteil)	**ID: 427** Title: Development of a Real-Time Electric Vehicle Driving Simulator with Detailed Powertrain and Battery Modeling gianluca canali (politecnico di milano); Michela Longo (politecnico di milano); Cancan Rong (China University of Mining and Technology); Daniele Martini (politecnico di milano)*	

16:20-16:40	**ID: 462** Title: An AI-Driven Deep Learning Model for Intelligent Power Quality Disturbance Detection in Grid-Connected PV Systems Dr. B Srikanth Goud (Anurag University)*; G Balakrishna (Anurag University); G Vishnu Murthy (Anurag University); K Shailaja (Anurag University)	**ID: 518** Title: Sizing of Photovoltaic and Battery Energy Storage for Electric Vehicle Charging and Peak Shaving:A Case Study of a Dialysis Clinic in Japan Haru MORIKAWA (Osaka Electro-Communication University)*; Yuki Nasu (Osaka Electro-Communication University); Nobumasa Matsui (Nagasaki Institute of Applied Science); Jiyoung Choi (Nagasaki Institute of Applied Science); Yuji Mizuno (Osaka Electro-Communication University)	**ID: 288** Title: Techno-Economic Analysis of a Grid-Constrained Hybrid Renewable Energy System with Battery and Hydrogen Storage: A Case Study in Turkiye Esra Aydın (Istanbul Technical University)*; Belgin Türkay (Istanbul Technical University)	**ID: 255** Title: System-Wide Decomposition and Reduction of VRE Integration Costs in Japan Hideaki Obane (The Institute of Energy Economics, Japan)*; Kan Kotegawa (The Institute of Energy Economics, Japan); Seiya Endo (The Institute of Energy Economics, Japan); Rino Hirose (The Institute of Energy Economics, Japan); Tianhong Zhang (The Institute of Energy Economics, Japan); Hiroyasu Sakaguchi (The Institute of Energy Economics, Japan); Yuhji Matsuo (Asia Pacific University); Takashi Otsuki (Waseda University)	
16:40-17:00	**ID: 349** Title: The Cost of Decision-Model Simplifications in PV-Battery Microgrid Energy Management Jonathan NTIAKA MUZAKWENE (LAAS-CNRS / ICAM)*; Allal El Moubarek Bouzid (LAAS-CNRS / ICAM); Bruno Estibals (LAAS-CNRS / UT); Pierre Tsafack (Ucac-Icam / University of Buea); Corinne Alonso (LAAS-CNRS / UT)	**ID: 492** Title: Stator-Flux-Oriented Linear Generalized Predictive Control of DFIG-Based Wind Energy Conversion Systems for Enhanced Dynamic Performance Abdelhakim Belkaid (Bejaia University)*; Kamel OUARI (Bejaia University); Ilhami COLAK (Istinye University); Korhan KAYISLI (Gazi University)	**ID: 318** Title: Station-Level Lifecycle Dynamics in a National EV Charging Panel: Reporting Failure, Not Usage Collapse, Precedes Observed Exit Jonathan Shan (University of Maryland)*; Jiehong Lou (University of Maryland)		
17.15-18.00	Closing Ceremony				



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More details

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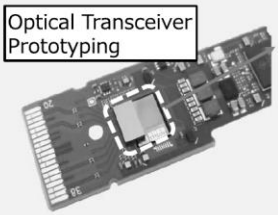
NTT Devices Cross Technologies

System Solution Service

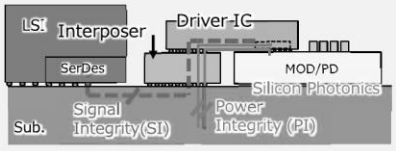
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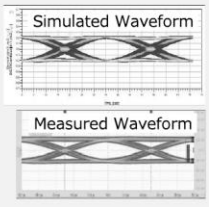
High-end IC and Board Design

Optical Transceiver Prototyping

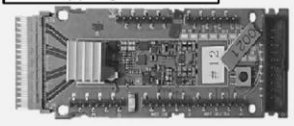


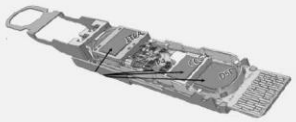
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- Co-design and –assembly for PEC
- Partner fab: AMF, GF, JSC, etc
- CMOS node:TSMC28/16/7 nm





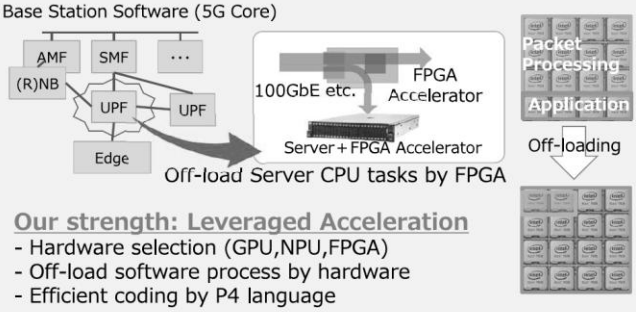
Optical Transceiver Prototyping with DSP





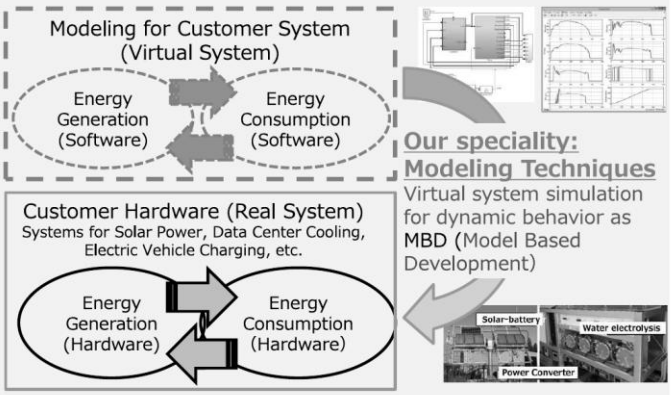
Our strength: Circuit/PCB design, Firmware for PEC
- High-speed serial transmission (28/56/112Gbps)
- Power supply (low-voltage, high-power)
- High-density assembly

Hardware Acceleration



Our strength: Leveraged Acceleration
- Hardware selection (GPU,NPU,FPGA)
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	ICRERA International Conference on Renewable Energy Research and Applications	https://www.icrera.org/
	ICSMARTGRID International Conference on Smart Grid	https://www.icsmartgrid.org/
	ICAIRA International Conference on Artificial Intelligence Research and Applications	https://icaira.com/
	ICSURA International Conference on Sustainability Research and Application	https://icsura.org/

PROGRAM STATISTICS

ICRERA 2026, Paris/France, October 12-15, 2026

General Summary

Indicator	Value
Total papers	347
Total sessions	81 (Online: 33, Poster: 1, Face to Face: 47)
Presentation time per paper	20 minutes (15 minutes on Tuesday, October 13)
Total presentation time	111.1 hours
Distinct authors (name-based count)	762
Distinct presenting authors	245
Distinct presenter affiliations (as written)	185
Average authors per paper	2.98
Most authors on a single paper	12
Single-author papers	102
Presenters with more than one paper	46
Papers without a marked presenter	4
Distinct session chairs	38
Keynote speeches / Tutorials	6 / 8

Papers and Sessions by Day

Day	Papers	Sessions	Online	Poster	Face to Face	Paper slots
Monday, October 12	169	34	33	1	0	09:00 - 18:00
Tuesday, October 13	55	14	0	0	14	10:40 - 18:10
Wednesday, October 14	74	20	0	0	20	11:20 - 18:00
Thursday, October 15	49	13	0	0	13	11:00 - 17:00
Total	347	81	33	1	47	

Papers by Starting Hour

Hour	Monday	Tuesday	Wednesday	Thursday	Total
09:00 - 09:59	18	0	0	0	18
10:00 - 10:59	18	4	0	0	22
11:00 - 11:59	18	8	10	15	51
12:00 - 12:59	12	4	10	3	29
13:00 - 13:59	18	8	10	8	44
14:00 - 14:59	20	8	10	8	46
15:00 - 15:59	21	8	5	4	38
16:00 - 16:59	18	8	14	11	51
17:00 - 17:59	26	7	15	0	48
Total	169	55	74	49	347

Session Chairs

38 different chairs (including second chairs of the Monday online sessions). Chairs with the most sessions:

Chair	Mon	Tue	Wed	Thu	Total
Halil Ibrahim Bulbul	3	1	2	1	7
Fabio Viola	3	1	1	1	6
Massimo Caruso	2	1	2	1	6
Erdal Bekiroglu	2	1	2	0	5
Erdal Irmak	1	0	2	1	4
Vitor Pires	1	1	1	1	4
Anil Guntupalli	3	0	0	0	3
Armando Pires	0	1	1	1	3
Deepika Paturu	3	0	0	0	3
João Martins	0	1	1	1	3
Mugunth Chandran	3	0	0	0	3
Nobumasa Matsui	0	1	1	1	3

Authors with the Most Papers

Author	Papers
Pierre-Olivier Logerais	12
Mahamadou Abdou TANKARI	12
URLAM PRANITA	8
Manivannan Sethuraman	7
Jura ARKHANGELSKI	7
Ilhami Colak	7
Claude Bertin NZOUNDJA FAPI	6
Abdelhakim Belkaid	6
ALi Ahmed	6

Presenter Affiliations with the Most Presentations

Affiliation	Presentations
King Fahd University of Petroleum and Minerals (KFUPM)	20
Gazi University	10
University of Johannesburg	8
Medhavi Skills University Sikkim	8
TJPRC	7
Boise State University	6
Anhui University of Science and Technology	5
University of Vaasa	5
MetLife Legal Plans	5
Absolute Assistance	5
TCS	5
Oracle	5
TEXAS TECH UNIVERSITY	5
PayPal	5
Bejaia University	5
Raymond James And Associates INC	5
University of South Carolina	5
Istanbul Technical University	5

Counts are computed from the program tables of this booklet. Author counts are name-based, so different spellings of the same name may be counted separately; affiliations are shown as written by the authors.

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Entries list the paper ID followed by the session code in brackets (O = Online, F = Face to Face, P = Poster, SS = Special Session). Presenting and co-authors are included.

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