

ICRERA 2025

14th INTERNATIONAL CONFERENCE ON RENEWABLE ENERGY RESEARCH AND APPLICATIONS

Dr. Alborz Aghamaleki Sarvestani

ABB German Corporate Research Center, Mannheim, Germany



Paper ID : 375

Paper Title : Novel deformable beam load break switch for sustainable SF6-free switchgear

Bio :

Dr. Alborz Aghamaleki Sarvestani is a Scientist at ABB in Mannheim, Germany, working in the Mechanism and Actuator group. He earned his Ph.D. from the Max Planck Institute for Intelligent Systems in Stuttgart, where his research in the Dynamical Locomotion Group focused on the mechanical design, development, and testing of bioinspired legged robots for dynamic locomotion.

Dr. Sarvestani holds both M.Sc. and B.Sc. degrees in Mechanical Engineering (Applied Design) from Shiraz University, Iran. His master's thesis involved the design, modeling, and control of a lower extremity exoskeleton, which was validated through experimental data and received top evaluation.

His research interests span mechatronics, robotics, control systems, bioinspired and legged robots, and dynamic system. He has contributed to several high-impact publications, including work published in *Science Robotics* and *Frontiers in Robotics and AI*. Dr. Sarvestani has also supervised multiple master's thesis and student research projects in collaboration with leading German universities.

In addition to his academic and industrial research, he has extensive experience in mechanical design and manufacturing, including the development of robotic platforms, exoskeletons, and actuation systems for switchgears. His work has been featured in international media such as *Scientific American*, *IEEE Spectrum*, and *CBC Radio*.