

Advancing Smart Grids and Renewable Integration for a Sustainable Future

Saeed Sepasi

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Thursday, September 26, 2024
10:30 AM – 12:30 PM
POST 121

Speaker Biography

Dr. Saeed Sepasi joined Hawai'i Natural Energy Institute (HNEI) as a Postdoctoral Research Fellow in 2015 working on the Grid System Technologies Advanced Research Team (Grid**START**), and became an Assistant Researcher in 2018. He earned his Ph.D. in Mechanical Engineering from the University of Hawai'i at Mānoa in 2014, where he contributed as a Research Assistant.

During his graduate studies, Dr. Sepasi's research focused on developing innovative adaptive methods for estimating the state of charge and state of health for Li-ion battery packs. He also collaborated on a Grid**START** project by formulating control algorithms for a grid-scale energy storage system which is implemented and tested within the Maui power system. Prior to his doctoral pursuits, he applied his expertise in industry by developing electronic control boards for home appliances as a quality engineer from 2009 to 2011. Additionally, he taught several Electrical Engineering courses, directed various laboratory experiments, and mentored undergraduate students, all of which has enriched his personal, educational, and professional experiences.

Dr. Sepasi's current research focuses on optimizing smart grid operations, enhancing the large-scale integration of renewable energy into existing power systems, and advancing sustainable energy practices. Through his ongoing projects and collaborative efforts, Dr. Sepasi continues to drive innovation and bridge the gap between renewable energy integration and power systems' resilience. These efforts contribute to academic enrichment and target real-world applications, aligning with Hawai'i's goals for renewable energy and environmental care.

