

Biography

Dr. Ameena Al-Sumaiti is a distinguished Emirati scientist, researcher, and thought leader with a strong vision for innovation, sustainability, and future foresight, aiming to create positive impact in the UAE and globally. She has been ranked among the top 2% of scientists worldwide for research impact for many years. Her expertise spans strategic planning, sustainability, renewable energy and hydrogen systems, smart and cognitive cities, transportation networks, electric and autonomous vehicles, AI and data analytics, energy policy and economics, smart agriculture, robotics, cyber-physical systems, energy storage systems, and advanced energy technologies.

Dr. Al-Sumaiti earned her PhD in Electrical and Computer Engineering from the University of Waterloo (Canada) and was a Visiting Professor at the Massachusetts Institute of Technology (MIT), USA. She is currently an Associate Professor at Khalifa University, where she leads the Smart Operations Research Lab and theme of renewable energy integration and energy storage systems under the Advanced Power and Energy Center, while contributing to interdisciplinary research centers.

She has authored 140+ journal articles, in addition to book chapters, conference papers, and strategic reports. Her work focuses on applied, impact-driven research with strong relevance to real-world systems and policy-informed decision-making.

Dr. Al-Sumaiti is a Senior Member of IEEE, and a member of UAE Thinkers. She serves on the editorial boards of leading scientific journals.