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His field of work is the application of computer methods to the secure economic operation of electric power systems and their modern markets. This has included state estimation, power flow, contingency analysis, optimal power flow and security-constrained dispatch, fault analysis, transient stability analysis, network equivalents, and financial transmission rights.

In 1984 he co-founded Power Computer Applications (PCA) Corporation in Arizona, USA, to develop online and market network analysis software. Today, this software is used worldwide, including by most of the ISO markets in North America. PCA was acquired in 2000 by Nexant Inc, to whom he remains a consultant.

He previously taught in universities in England, Turkey, Canada and the USA. He spent seven years as leader of an R&D team on EMS network applications at the Electric Energy Research Center of Brazil (CEPEL). He has given lectures and courses all over the world. He has served as consultant/adviser on many major projects, including real-time security in the pan-European electric power grid, sponsored by the European Commission.