

Reflections from a Scientific Journey

Kamal Youcef-Toumi
Professor of Mechanical Engineering
Massachusetts Institute of Technology
USA

Kamal Youcef-Toumi is a Professor of Mechanical Engineering at the Massachusetts Institute of Technology (MIT). He is Co-Director of the Center for Complex Systems at King Abdulaziz City for Science and Technology (KACST) Saudi Arabia and MIT, Director of the Ibn Khaldun Fellowship Program for Saudi Arabian Women, and Director of the MIT Mechatronics Research Laboratory. He earned his M.S. and Sc.D. degrees from MIT. Youcef-Toumi's research has focused primarily on modeling, design, control theory & learning techniques with fast adaptation, and systems intelligence. The applications include robotics & automation, intelligent systems with artificial intelligence, and nanoscale video imaging. He made significant contributions to MIT's international research and education collaborations, including Qatar, Russia, Saudi Arabia, Singapore, and the United Arab Emirates. Youcef-Toumi is the recipient of the National Science Foundation Presidential Young Investigator Award from President Ronald Reagan. He served on many professional committees and as a consultant for several multinationals. He is an IEEE Senior and Life member, an ASME Fellow, and a Fellow of the International Association of Advanced Materials. He served as Editor of several symposia/conference proceedings. He authored over 360 scientific publications and holds about 50 registered/pending patents. Professor Youcef-Toumi has been an invited lecturer at over 260 seminars at companies, research centers, and universities worldwide.