



Professor Mehmet Yildiz

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Mehmet Yildiz is a Professor in the Materials Science and Nanoengineering and Manufacturing Engineering programs within the Faculty of Engineering and Natural Sciences at Sabanci University. Since 2018, he has been serving as the Vice President for Research. He earned his Ph.D. in Mechanical Engineering from the University of Victoria, Canada, in 2005, focusing on computational fluid dynamics and semiconductor single crystal growth. Following his Ph.D., he worked as a research associate and lecturer at the same university until 2007. He joined Sabanci University in 2007 as a faculty member in the Materials Science and Nanoengineering Program. Between 2013 and 2016, he established the Integrated Manufacturing Technologies Research and Application Centre (SU-IMC) and its industrial stream, the Composite Technologies Centre of Excellence (CTCE), in collaboration with KORDSA. He served as the founding director of these centers until 2020, facilitating university-industry collaboration to accelerate technology maturation from TRL 1-3 to TRL 4-6. SU-IMC stands out as an open innovation center, uniquely integrating academic research with industrial applications, fostering interdisciplinary collaboration, and providing a dynamic ecosystem for startups, SMEs and OEMs to co-develop cutting-edge manufacturing solutions. He played a pivotal role in launching the Ph.D. program in Manufacturing Engineering in 2016. In addition to his academic responsibilities, he served as a deputy chairperson on KORDSA's board of directors for six years. His research expertise spans advanced composite materials, nanocomposites, structural health monitoring, and computational mechanics and fluid dynamics, with a focus on meshless methods such as smoothed particle hydrodynamics and Peridynamics. He has authored over 237 indexed academic publications, including 201 SCI-indexed journal articles, 12 book chapters, and 174 conference presentations/papers. Additionally, he has filed 10 patents and led over 66 national and international research projects, securing a total budget exceeding 40 million USD from national and international funding agencies and industrial partners. Prof. Yildiz has supervised over 60 graduate students and mentored 33 postdoctoral fellows and visiting researchers across multiple disciplines.