UNIVERSITY of HOUSTON

Name: Burak Basaran

Department/College: Engineering Technology

Research Area: Materials Science

Biography:

Burak BASARAN was born in Ankara, in 1974. He graduated from Eskisehir Osmangazi University, Dept. of Mechanical Engineering in 1996 with honors (3rd among class of '96). For three years (1997-2000), he worked as a research assistant at Gazi University Department of Mechanical Engineering where he also earned a M.Sc. degree focusing on mechanical design & manufacturing processes. Subsequently, he departed for USA via "Fulbright Scholarship for Exchange Students Program". He received a M.Sc. degree from the Dept. of Mechanical Engineering focusing on superconductor materials & their manufacturing methods (2003) and a Ph.D. from Materials Science & Engineering Interdisciplinary Program focusing on synthesis & characterization of magnetic shape memory alloy materials (2009) from Texas A&M University, College Station, TX. The next two years, he furthered his work on synthesis and characterization of state of the art intelligent materials as a "postdoc research fellow" in the Dept. of Mechanical Engineering at the University of Kentucky, Lexington, KY. Between 2011 & 2012, he taught courses in engineering mechanics and carried out his research in materials science and mechanical design at the Department of Engineering Technology, Mechanical Engineering Technology Program in University of Houston, Houston, TX as a "visiting assistant professor". From Sept 2012 to Feb 2014, he contributed to the foundation of the Department of Mechatronics Engineering in the University of Turkish Aeronautical Association as an "assistant professor" and interim department head. Dr. Basaran returned to University of Houston, Dept. of Engineering Technology as a visiting assistant professor in Fall 2014. He got employed as a fulltime "instructional assistant professor" for the same department starting Fall 2015. As of 2015, Dr. Basaran has a total of fifteen publications in prominent journals including Acta Materialia, Scripta Materialia, Advanced Functional Materials and Applied Physics Letters. His main research/teaching interests comprise of: Thermal-magnetic-mechanical (concurrent) characterization of engineering materials, Intelligent materials (magnetic shape memory alloys & polymers) synthesis & applications, Mechanical design & manufacturing of novel test platforms for scientific research, Computer aided design/computer aided manufacturing (CAD/CAM), Superalloys, Alloys of light metals (Ti, Al, Mg), Composite materials (for armor & aerospace applications), Synthesis & development of novel materials for green/renewable energy (wind, solar, hydro), Electromechanical systems design for green/renewable energy, Development of innovative teaching techniques, tools & curricula in materials & mechanical engineering education.