

ANTONIOS KONTOSOS, PH.D.
HENRY M. ROWAN FOUNDATION PROFESSOR
DIRECTOR OF THE DIGITAL ENGINEERING HUB



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Biography:

[Dr. Antonios Kontsos](#) is the first Henry M. Rowan Foundation Professor in Rowan University's Mechanical Engineering Department and Henry M. Rowan College of Engineering, where he is also the inaugural Director of the [Digital Engineering Hub \(DEHub\)](#). Prof. Kontsos' research interests are in the area of engineering mechanics with emphasis on the understanding of the mechanical behavior of materials. To achieve this goal, he develops microstructure-properties-behavior relations [using methods that involve theory, experiments, modeling, manufacturing, and simulations](#). An additional research goal is the identification of damage and in particular the quantification of evolving material states as a function of applied loading and of the manufacturing process, which can then be used for material diagnostics and prognostics. In this context, Dr. Kontsos has been using multiphysics sensing and multiscale testing methods across length scales, in conjunction with signal processing and numerical simulations to understand the mechanical behavior of materials. In relation to these research efforts, Prof. Kontsos teaches topics related to solid mechanics, advanced manufacturing, and cyberphysical systems.

Education:

Post-Doctoral Fellow, The University of Texas at Austin, Center for Mechanics of Solids, Structures and Materials

Ph.D., *Mechanical Engineering & Materials Science*, RICE University (2007)

Diploma, *Mechanical Engineering & Aeronautics*, University of Patras, Greece (2002)

Research Expertise:

Digital Engineering; Mechanics of Materials; Data-driven Modeling; Advanced Manufacturing; Nondestructive Evaluation