Seminar

Structural Nonlinearity: Performance Augmentation & Novel Functionalities

Nonlinearity arises naturally in physical processes encompassing most engineering fields and applications. In spite of this prevalent nature, nonlinearity in structural engineering design is commonly associated with problems and loss of functionality. Owing to the ever growing need for better performance and new modelling techniques that provide better understanding of nonlinear behaviour, new attitudes towards the

Biography:

Dr. Andres Arrieta is currently Group Leader of the Compliant Systems Group at the Laboratory of Composite Materials and Adaptive Structures in ETH Zurich, where he currently supervises 4 doctoral students and 3 master's student. He received his Ph.D. in Mechanical Engineering from the University of Bristol in 2010, where he studied the nonlinear dynamics of multistable structures. Before, he obtained his bachelor in Mechanical Engineering from the Universidad de los Andes, in Bogota, Colombia. His research interests focus in designing structural nonlinear for creating novel functionalities in distributed compliance structures and smart material systems.