

Marco Leonesio joined CNR - STIIMA in 2001 and started working in DASM group (Dynamic Analysis and Simulation of Machinery), coordinated by Giacomo Bianchi. In 2008 he became permanent researcher. Firstly, his activities ranged over multibody modelling and simulation, geometrical calibration of machine tools and parallel manipulators, and mechanism analysis. Since 2004 he started working on metal cutting analysis and simulation, in particular tackling the problem of process stability, integrating theoretical studies with proper experimental tests. In the field of mechanism analysis, he has conceived a new approach to assess the self-locking occurrence in closed kinematic chains, that has been the first attempt to tackle this problem in a general way. Recently, he was involved in process monitoring and control of grinding and milling processes, where he applied a hybrid machine learning and physic-based approach. He participated to several national and European projects (from 5FP to H2020), being responsible of particular tasks. He supervised and co-supervised master thesis in the field of machine tools and machining process and he is currently co-supervising a Ph.D. in Mechanical Engineering. Member of AITEM (Associazione Italiana delle Tecnologie Manifatturiere); project reviewer for the Italian Ministry of University & Research (REPRISE) and Ministry of Economic Development (in the framework of CNR – MISE convention). Responsible of the Mechatronic Lab of CNR-STIIMA.