Mini-Symposium 8-1 Contact Mechanics

Organizers: Lars Pastewka (University of Freiburg), Nicola Menga (Politecnico Bari), Thibaut Chaise (LAMCOS)

Contact Mechanics investigates the properties of solid-solid contact. It is a core subject in the science of tribology, as friction, wear, and lubrication, occur in mating interfaces. This places CM studies in a key position for several industrial research areas, including, among the others, automotive, aerospace, manufacturing, and biomedical engineering, eventually aiming at enhancing the functionality, efficiency, sustainability, and durability of components. This symposium provides a platform for young and leading scientists to share the latest advancements and challenges in contact mechanics, spanning from theoretical and computational modelling to experimental studies. By fostering interdisciplinary dialogues and collaborations, the symposium aims at exploring latest findings in: multi-scale and multi-physics approaches; dynamic and biomechanical contacts; interplay between adhesion, friction and (visco)elasticity; wear, plasticity, and failure mechanisms.