



crashMAT
Freiburg



Dirk Mohr – ETH Zürich
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Keynote

Experimentelle und numerische Herausforderungen bei der Entwicklung KI-basierter Materialmodelle

Professor Dirk Mohr currently holds the Chair of Computational Modelling of Materials in Manufacturing at ETH's Department of Mechanical and Process Engineering (MAVT). He joined the faculty of ETH in 2015 after conducting research at the Experimental Dynamics Group at the Solid Mechanics Laboratory at Ecole Polytechnique (France) and MIT's Impact and Crashworthiness Lab. He was educated in Structural and Computational Mechanics at the University of Karlsruhe (Germany) and the Ecole Nationale des Ponts et Chaussées (France) with a fellowship from the German National Academic Foundation. He continued his graduate studies at the Massachusetts Institute of Technology (USA) where he received his PhD in Applied Mechanics in 2003. Over the past fifteen years, he has spent about twelve months at the R&D departments of Daimler in Stuttgart and BMW in Munich.

Professor Mohr's research activities include crashworthiness, thermo-mechanical behavior of materials at high strain rates and the mechanics of constructed cellular materials. He is the recipient of the Hetenyi Award (2007) from the Society of Experimental Mechanics and the IJP Young Investigator Award (2016) for his outstanding contributions to the field of plasticity. He is Associate Editor of the International Journal of Impact Engineering and the International Journal of Solids and Structures. He also serves on the editorial board of the journals Strain and the International Journal of Plasticity.