Topics:

Within the last years, computational contact mechanics has been a topic of intense research. The aim of the development is to devise robust solution schemes and new discretization techniques which can be applied to different problem classes These are wide ranging and include computational aspects of

(1) discretization techniques
(2) solution algorithms for single- and multi-processor computing environments
(3) multi-scale approaches to contact problems
(4) discrete element models for contact and
(5) multi-field problems with contact constraints.

Technical applications are in the area of interface problems for solid bodies, failure processes in heterogeneous materials, textile and laminated composites, bio-mechanics as well as thermo-electro-mechanical contact problems.