Numerical analysis and simulation methods of nonsmooth mechanical systems

Vincent Acary INRIA Rhône–Alpes, Grenoble.

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Nonsmooth contact mechanics. Spring school. Aussois 2010

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- Lecture 1 (\approx 1h00). Basics on nonsmooth mechanical systems.
- \blacktriangleright Lecture 2 (\approx 2h00). Numerical methods for time integration of NonSmooth Mechanical systems
- \blacktriangleright Lecture 3 (\approx 1h00). Solving the frictional contact problem with impacts.

Simulation of Circuit breakers (INRIA/Schneider Electric)





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Bipedal Robot INRIA BIPOP



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Simulation of the ExoMars Rover (INRIA/Trasys Space/ESA)



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Stack of beads with perturbation



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FEM models with contact, friction cohesion, etc...



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Divided Materials and Masonry

