

STOCHASTIC MECHANICS

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SUMMARY

We are pleased to invite all persons working in the field of stochastic mechanics to a mini-symposium where recent achievements and research tendencies in stochastic mechanics will be presented and discussed. During the 4th Polish Congress of Mechanics we plan to organize a mini-symposium gathering the scholars dealing with stochastic dynamics, inverse problems in mechanics and applications of random processes as well as those who solve technological problems using stochastic and statistical methods. (e.g. seismic risk assessment and reliability problems in engineering, broadband energy harvesting etc.). The proposed mini-symposium will be a good venue for short presentations, but also for a panel debate on the present status and the future of probabilistic methods in engineering and stochastic mechanics. We cordially invite all those whose research is pertinent to the following subject areas:

- Stochastic Dynamics and Random Vibration
- Non-linear Problems in Stochastic Mechanics
- Applications of Random Processes and random Fields in Mechanics
- Reliability Assessment
- Structural Control and Optimization using Stochastic Methods
- Random Processes Simulation and Monte Carlo Methods
- Uncertainty Representation and Quantification
- Random Structural Analysis
- Engineering Applications of Stochastic Methods
- Applied Stochastic Analysis for Structures and Infrastructure Systems
- Applications of Stochastic Methods in Wind, Ocean and Seismic Engineering
- Energy Harvesting from Random Vibration Sources