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STABILITY AND BIFURCATIONS IN MACHINERY

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SUMMARY

This Mini-Symposium is dedicated to recent advances in investigations of stability and bifurcations in mechanical systems with special attention paid to their applications in machinery in which the corresponding physical phenomena like flutter vibrations, buckling, parametric resonances, friction-induced oscillations, effects of follower forces etc. can cause serious damages and strongly affect desired working conditions producing noise, wear and increased energy consumption. Novelty of prospective contributions can be related to new composite and active materials, thin-walled ultra-light structures, high-speed rotors and railway vehicles, flow-structure interactions, efficient robot manipulators etc. Research on new investigations of stability and bifurcation in machinery using experimental and/or computational methods are highly encouraged to be presented.

The following scientists have already announced their interest in contributing to this Mini-Symposium:

Jan Awrejcewicz, Łódź Univesity of Technology – keynote speaker,

Włodzimierz Kurnik, Warsaw University of Technology,

Jacek Przybylski, Częstochowa University of Technology,

Piotr Przybyłowicz, Warsaw University of Technology,

Utz von Wagner, Technical University Berlin,

Jerzy Warmiński, Lublin University of Technology.

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