Theory and Application of Dynamical Systems in Mechanics

Guest Editor:

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Deadline for manuscript submissions:
closed (15 February 2023)

Message from the Guest Editor

Dear Colleagues

This Special Issue invites papers that focus on recent and novel developments in the theory of dynamical systems, their simulations, and their applications, especially on analytical, numerical, and experimental results showing non-linear phenomena with regular and irregular patterns focusing on mechanical systems.

This Special Issue will accept high-quality papers containing original research results and survey articles of exceptional merit in the following fields:

- Mechanical systems modelling and simulations;
- Ordinary and partial differential equations theory and numerics;
- Autonomous, non-autonomous, and piecewise-smooth dynamical systems;
- Chaos, chaos control, and anticontrol;
- Stability, multi-stability, and hidden and self-excited attractors;
- Entropy, 0–1 test for chaos, Lyapunov exponent, forecasting, and predictability;
- Real-world dynamical systems application in mechanics.

Prof. Dr. Marek Lampart
Guest Editor

Special Issue

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Message from the Editor-in-Chief

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