

2nd joint seminar on non-linear and adaptive dynamical systems

IPPT PAN and Division of Dynamics (Lodz University of Technology)

December 8th, 2017

(Faculty of Mechanical Engineering, Lodz University of Technology, room 102, bldg. A18)

- 10:00 – 10:10 Przemysław Perlikowski (DoD)
Welcome to Division of Dynamics, Lodz University of Technology
- 10:10 – 10:35 Anita Orłowska (IPPT)
Dynamic behaviour of the prestressed GFRP composite beams
- 10:35 – 11:00 Jarosław Latański (Lublin University of Technology)
Dynamics and control of an active composite blade rotor
- 11:00 – 11:25 Mateusz Lazarek (DoD)
The comparison of two different CVTs used in TMD that enables changes of inertance
- 11:25 – 11:50 Bartłomiej Błachowski (IPPT)
Modeling and numerical simulation of human gait dynamics
- 11:50 – 12:15 Piotr Wolszczak (Lublin University of Technology)
Dynamics of an inverted pendulum with amplitude limiters
- 12:15 – 13:00 Coffee break**
- 13:00 – 13:25 Dominik Pisarski (IPPT)
Optimal stabilization of pipe discharging air with electromagnetic devices of motional type
- 13:25 – 13:50 Krzysztof Kęcik (Lublin University of Technology)
A novel nonlinear pendulum vibration absorber with a pseudo-maglev harvester.
- 13:50 – 14:15 Viet-Thanh Pham (DoD)
Hidden attractor: theory and presence in engineering systems
- 14:15 – 14:40 Rami Faraj (IPPT)
The concept of self-adaptive impact absorbing system
- 14:40 – 15:05 Marek Balcerzak (DoD)
An alternative approach to the swing-up problem of an inverted pendulum