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 Łukasz Jankowski (IPPT)
Identification of moving load trajectories using l1-norm regularization

10:35 – 11:00 Jarosław Latalski (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

Referneces