

Session 2:

MECHATRONICS & AUTOMATION

Chairman: doc. Ing. Vladimír Goga, PhD.

9:00 - 11:00

- 1. ROBUST CONTROL OF A NONLINEAR DRUM BOILER**
Peter Balko, Danica Rosinová
- 2. ROUTE ELEVATION IMPACT ON PREDICTIVE CONTROL IN POWER-TRAIN OF HYBRID VEHICLE**
Eduard Ribar, Justín Murín
- 3. MODAL ANALYSIS OF OVERHEAD ALFE POWER LINES WITH DIFFERING ATTACHMENT LEVELS USING NEW 3D FGM BEAM FINITE ELEMENT**
Roman Gogola, Justín Murín, Juraj Hrabovský
- 4. SIMPLE SEGWAY CONSTRUCTION**
Vladimír Popelka

10:00 – 10:15 Coffee Break

- 5. GAIN-SCHEDULED MODEL PREDICTIVE CONTROLLER DESIGN**
Adrian Ilka, Vojtech Veselý
- 6. MODELING OF A CAPACITIVE MICRO ACCELEROMETER WITH FINITE ELEMENT METHOD**
Gabriel Gálik, Vladimír Kutíš
- 7. REFLECTION VECTORS BASED ROBUST CONTROLLER DESIGN: IMPLEMENTATION USING FPGA**
Michal Kocúr, Ján Cigánek