

IOC autumn seminar 2014

Tuesday, 9.12

10.30 Welcome coffee

11.00 1st session — Control systems, speech technology, system biology (24 minutes per presentation)

- Martin Laasma
Calcium Fluxes in Heart Cells
- Rikke Birkedal
Getting to the heart of the matter: Do we need creatine for energy transfer?
- Tanel Mullari
Geometric control for a nonlinear sampled data system
- Arvo Kaldmäe
Integrability conditions for nonlinear time-delay control systems
- Ottokar Tilk
Multi-domain neural network language models

13.00 Lunch

14.30 2nd session — Nonlinear dynamics (2 hours in total)

- Jüri Engelbrecht
On interdisciplinarity
- Heiko Herrmann
Short Fibre Composites and Virtual Reality
- Dmitri Kartofelev
Kymographic imaging of vibrating strings
- Robert Kitt
Economic decision-making: an application of complex systems

16.30 Coffee

17.00 3rd session (in estonian)

- Andrus Salupere
Elust Kübls ja TTÜs
- Lauri Vahtre
Eestlaste ajaarvamine ja kalender – nüüd ja minevikus

19.30 Christmas dinner, quiz

Sauna

Wednesday, 10.12

10.00 4th session — Software (2 hours in total)

- Enn Tõugu
Information and knowledge
- Silvio Capobianco
A short introduction to coinduction
- Andres Ojamaa
Simulation in Cyber Security
- Denis Firsov
Functional incremental computing

12.00 Lunch

13.30 5th session — Wave engineering (1.5 hours in total)

- Tomas Torsvik
Recent developments in data analysis of surface current measurements
- Artem Rodin
Ship-induced solitary Riemann waves of depression in Venice Lagoon
- Katri Pindsoo
Quantification of the impact of vessel wakes on the transport of coarse sediment
- Maris Eelsalu
Intermittency of the wave energy flux in the eastern Baltic Sea

15.30 Bus leaves