



IKTDK 2013 conference

Sessions and plenary lectures

Friday, November 15

12:30 Arrival and lunch

14:00 **Plenary talk:** “On the analysis problems of emerging behavior of robot swarms”, Prof. Jüri Vain

14:45 **Plenary talk:** “Dynamic systems on time scales”, Dr. Małgorzata Wyrwas

Session P1	Authors	Title
Friday, 15 Nov. 15:30 – 16:30	S. Astapov, J. Berdnikova, and J.-S. Preden	Advances in Moving Speaker Acoustic Localization for Operation in Distributed Systems
	J. Ehala and S. Astapov	Monitoring Patient Movement Velocity Using Passive Infrared Sensor Information
	M. Gorev, R. Ubar, and P. Ellervee	Self-Testing of Pipe-Lined Signal Processing Architectures At-Speed

16:30 – 16:45 Coffee break

Session P2	Authors	Title
Friday, 15 Nov. 16:45 – 18:05	I. Shvartsman and K. Taveter	Agent-oriented Modelling for Tabletop Military Training Exercises
	M. Spichakova	Overview of the Modular System for Inference of Finite State Machines
	A. Sulakatko	Research on Ad Hoc Personal Area Network Application Development Kit
	A. Tepljakov, E. Petlenkov, and J. Belikov	Synthesis of Digital Filters for Embedded Fractional-order Control Applications

18:05-19:00 Dinner

19:00 Visiting sauna and pool complex

Saturday, November 16

8:00 Breakfast

9:00 **Plenary talk:** „Elektriautode kasutatavus- ja käitumisanalüüs/ Behavioral and User Experience Analysis of Electric Vehicles“, Dr. Innar Liiv

Session P3	Authors	Title
Saturday, 16 Nov. 9:30 – 10:30	T. Krips and J. Willemson	About Hybrid Model of Fixed Point Numbers and Floating Point Numbers in the Secure Multiparty Computation Platform Sharemind
	P. Laud and A. Pankova	New Attacks against Transformation-Based Privacy-Preserving Linear Programming
	P. Laud, A. Pankova, M. Pettai, and J. Randmets	Specifying Sharemind's Arithmetic Black Box

10:30-11:00 Coffee break

11:00-11:40 **Plenary talk:** " IT teaduskonna teadusstrateegiast", Prof. Maarja Kruusmaa

Session P4	Authors	Title
Saturday, 16 Nov. 11:40 – 13:00	M. Leier and G. Jervan	A Small-Size Sleep Apnea Pre-Screening Prototype for Neonates and Children
	M.-A. Meister	Perspectives on Ground-wave Communication
	Y. M. Mughal	An attempt to Separating Cardiac and Respiratory Components from EBI Dataset through Conventional Filtering Method
	D. Bogdanov, S. Laur, and R. Talviste	Oblivious radix sort for secure multiparty computation

13:00-14:00 Lunch

Session P5	Authors	Title
Saturday, 16 Nov. 14:00 – 15:40	I. Must, U. Johansson, F. Kaasik, I. Põldsalu, A. Punning, and A. Aabloo	Harvesting Electric Energy from Ambient Humidity Gradient
	T. Mägi	Information Accumulation and Archivist

D. Nikiforov	NOC Mapping and Scheduling
E. Nikolaeva, P. Adler, H. Peterson, and J. Vilo	Prioritization of Protein-Protein Interactions Associated with Alzheimer's Disease Using Data Mining
S. Omelkova and P. Küngas	Web Service Network Construction Using Schema Matching

15:40:16:00 Coffee break

Session P5	Authors	Title
Saturday, 16 Nov. 16:00 – 17:40	P. Pullonen	Actively Secure Two-Party Computation: Efficient Beaver Triple Generatio
	A. Dieumegard, A. Toom, and M. Pantel	Formal Specification of Block Libraries in Dataflow Languages
	K. Krips	Overview of the Cryptographic Proving Assistant ProveIt
	V. Tihomirov, M. Jenihhin, and J. Raik	Using Simulation Statistics for Bug Localization in RTL Designs
	M. Metshein	Active Electrodes for Measuring the Electrical Bioimpedance