

Session 3 • October 6 • 10:30 – 13:30 (Videoconference)

Session Chairs: **Vitaly KLYUEV** and **Nikolay SMIRNOV**

Greeting from Prof. Ryuichi Oka, the President of the University of Aizu

Greeting from Prof. Petrosjan Leon, the Dean of the Faculty of Applied Mathematics and Control Processes of St. Petersburg State University

- TESMA: Towards the Development of a Tool for Specification, Management and Assessment of Teaching Programs (Nicolas Guelfi, Benjamin Jahić, Benoît Ries)
- An Algorithm to Approximate the Total Number of Site Pages Using a Portion of Its Structure (Sergei Sergeev, Ivan Blekanov, Aleksei Maksimov)
- Formal Verification of Technical Systems Using smartflow and CTL (Philipp Hönig, Rüdiger Lunde, Florian Holzapfel)
- Visual Learning Tool for Lego Robots Programming (Georges Meguro, Kenji Abe, Alexander Vazhenin)
- Map-Reduce Based Algorithm for the Analysis of Vital Variables of Neonatal Patients (Sipan Arevshatyan, Houcine Hassan, Carlos Domínguez)
- Trends and Opportunities of Training Highly Qualified IT Specialists in Accordance with International Standards (Sergei S. Voitenko, Lyudmila F. Vyunenکو, Alexander V. Yurkov)
- A Tool for Bulk Deployment of Similarly Configured Resources in VMware vSphere (Andrei Kuznetsov, Artyom Antonenko)
- Forecasting the Dynamics of Key Macroeconomic Indicators Based on Simulation (Lyudmila F. Vyunenکو, Aleksey V. Vorontsovskiy)
- Using Ant Colony Optimization for Tourist Route Construction Automation (Boris Skripal, Evgeny Pyshkin)
- Air Cushion Vehicle Model for Educational Purposes (Ruslan A. Sevostyanov)
- Day-Ahead Demand Management in Multi-Supplier Power Grid under Transmission Constraints (Ivan Popov, Alexander Krylatov, Victor Zakharov)
- Spectral H2 Synthesis of Fault Estimation Observer (Evgeny I. Veremey, Yaroslav V. Knyazkin)
- Theoretical Study of Replication in Desktop Grid Computing: Minimizing the Mean Cost (Ilia Chernov)
- Multiprogrammed Control Problem of One Supply Chain (Inna Trofimova, Larisa Mynzu)