

WAIT 2018: Workshop on the Advances of Information Technology

Venue of the conference: BME Building I, IB310

Date of the conference: January 31, 2018

The Department of Control Engineering and Information Technology organizes an annual scientific conference in the broader field of Information Technology, including but not limited to Software Engineering, Computer Graphics, Hardware Architectures, Robotics, Control Engineering, Medical Imaging, and Computer Vision to allow PhD students and researches to share their ideas and latest results. The conference language is English and Hungarian, that is, papers are expected in English, but presentations are in Hungarian.

Schedule of presentations

Virtual and augmented reality (chairman: László Vajta)

Patrik Reizinger, Ferenc Vajda: Concept of a Mobile, Cameraless VR-controller Framework for Working Environments	8.20
Márton Szemenyei: Evolutionary Scene Arrangement for Adaptive Augmented Reality Systems	8.40
Tamás Umenhoffer, Balázs Tóth: Stylized Facial Video Processing Using Kinect Face Tracking	9.00
Ferenc Vajda: Advances of AR/VR Technologies – Devices and Solutions	9.20
Balázs Tóth: Efficient depth image upsampling and denoising methods	9.40

Fluid and medical simulation (chairman: Balázs Csébfalvi)

Tamás Umenhoffer, Márton Tóth, László Szécsi, Ágota Kacsó, Balázs Benyó: Aortic Root Simulation Framework for Valve Sparing Aortic Root Replacement Surgery	10.20
Márton Tóth, Tamás Umenhoffer, László Szécsi, Ágota Kacsó, Balázs Benyó: Aortic Root Simulation Using Smoothed Particle Hydrodynamics	10.40
Ágota Kacsó, László Szécsi, Márton Tóth, Balázs Benyó, Tamás Umenhoffer: Finite volume blood flow simulation for highly deformable boundaries	11.00

Computer graphics and medical imaging (chairman: Tamás Várady)

Péter Salvi, Tamás Várady, Kenjiro T. Miura: Approximating Point Clouds by Generalized Bézier Surfaces	11.40
István Kovács, Tamás Várady: Approximating point data by P-Bézier curves	12.00
Ágota Kacsó, László Szirmay-Kalos: Robust Fitting of Compartmental Models for Emission Tomography	12.20
Ákos Szlávecz, Gábor Hesz, Balázs Benyó: 3D SPECT Reconstruction using Radiopharmaceuticals Labelled with Multi-energy Isotopes	12.40

Artificial intelligence, deep Learning, and control engineering (chairman: István Harmati)

Áron Görög, István Harmati: Development of ABS Control Architecture based on Predictive and AI Methods	13.20
János Szóts, István Harmati: Incremental Pattern Extraction Based Gomoku Agent	13.40
Gergely Ferenc Rácz, Ágota Kacsó, Márton Tóth, Balázs Tóth: PET Image Denoising using a Deep Neural Network	14.00
Gábor Péter, Bálint Kiss, René Hexel:	14.20

Event-driven Odometry and Camera Pixel Projection for Humanoid Robot Based on Kinematic ...	
Eszter Virágh, Bálint Kiss: Controllability of Reaction Dynamics During Production of Alpha, Beta-unsaturated Arboxylic Acids	14.40

Software technology and system design (chairman: Balázs Goldschmidt)

György Rácz, Péter Arató: Adapting the System Level Synthesis Methodology to Industrial Control Design	15.20
Balázs Simon: Immutable Red-Green Graph: A Design Pattern for Immutable Object Graphs	15.40
Miklós Taliga, Katalin Balla: Jenkins Process for Different Stream Stability	16.00
Balázs Ludmány, Gábor Domokos, Imre Szeberényi: Description of surface features on 3D scanned bodies	16.20

Thank you for the participation, see you on WAIT 2019!

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