

Medical Imaging and simulation (chairman: László Szirmay-Kalos)

Ákos Szlávecz, Andrea Nagy, Katalin Kovács, and Balázs Benyó: Models and methods of realistic kidney simulation used for MAG3 SPECT imaging	9.00
Dóra Varnyú, László Szirmay-Kalos, and Milán Magdics: Motion Compensation on the GPU for Emission Tomography	9.20
Ágota Kacsó, Lóránt Seres, László Szécsi: Finite Volume Flow Simulation in the Aortic Root	9.40
Yahia Anane, Balázs Benyó, Ákos Szlávecz, Béla Paláncz and J. Geoffrey Chase: Potential Use of the Stochastic ICING Model in STAR Protocol	10.00

Optimization, deep learning and AI (chairman: István Harmati)

László Szirmay-Kalos: Model Fitting with Forced Convexification	10.40
Balázs Tóth, Milán Magdics, Márton Tóth, Ágota Kacsó, Gergely Rácz, and László Szirmay-Kalos: Regularization Parameter Setting with Regression for PET Reconstruction	11.00
János Szóts and István Harmati: Evader Strategy in a Pursuit-Evasion Game with One Inferior Pursuer	11.20
Gergely Ferenc Rácz, Ágota Kacsó, Márton Tóth, and Balázs Tóth: Fast and accurate initial parameter fitting in Positron Emission Tomography using Neural Networks	11.40
Márton Szemenyei: Efficient Object Detection in Robot Soccer Environments Using Deep Learning	12.00

Computer graphics and geometry (chairman: Tamás Várady)

Péter Salvi: On the CAD-compatible conversion of S-patches	13.00
Márton Vaitkus: Notes On Curve Network Interpolation	13.20
Tamás Umenhoffer, Márton Tóth, and Ágota Kacsó A visualization framework for vehicle intelligence simulations	13.40

Autonomous vehicles and robotics (chairman: Bálint Kiss)

Zoltán Gyenes and Emese Gincsiné Szádeczky-Kardoss Motion planning for mobile robots using Traffic Regulation	14.20
Salma Taik and Bálint Kiss: Optimization of Consumer-Side Energy Consumption in a Smart Household with Electric Vehicle	14.40
Jian Guo and István Harmati: Optimization of Traffic Signal Control Based on Game Theoretical Framework	15.00
György Pilászy, György Rácz, Tamás Horváth, Balázs Olosz: High Accuracy Digitization of Load Cell Signal with Precision AD Converter	15.20
Eszter Virágh and Bálint Kiss Motion planning for chemical reactions	15.40