

RoboCup 2011 Symposium Schedule

09:00 Welcome by Symposium Co-Chairs
Address by RoboCup 2011 General Chair
Address by RoboCup Federation President

09:20 Invited Talk: Luc Steels. When Will They Start to Speak?

10:10 Poster Presentation Session 1 Teasers

10:30 Poster Presentation Session 1 & Coffee Break

1. Stefan Czarnetzki, Gregor Jochmann, Sören Kerner and Oliver Urbann. Efficient Multi-Hypotheses Unscented Kalman Filtering for Robust Localization
2. Román Marchant, Pablo Guerrero and Javier Ruiz Del Solar. A Portable Ground-Truth System Based On A Laser Sensor
3. Masaru Okaya and Tomoichi Takahashi. Proposal for Everywhere Evacuation Simulation System
4. Thomas Whelan, Sonja Stüdl, John McDonald and Richard Middleton. Line Point Registration: A Technique For Enhancing Robot Localization in a Soccer Environment
5. José Antonio Álvarez Ruiz. Learning to Discriminate Text from Synthetic Data
6. Justin Stoecker and Ubbo Visser. RoboViz: Programmable Visualization for Simulated Soccer
7. Tiago Nascimento, Hugo Alves, André Gustavo Scolari Conceição, Fernando Fontes and António Paulo Moreira. A Generic Framework for Multi-Robot Formation Control
8. Dirk Holz, Stefan Holzer, Radu Bogdan Rusu and Sven Behnke. Real-Time Plane Segmentation Using RGB-D Cameras
9. Gil Lopes, A. Fernando Ribeiro and Nino Pereira. Catadioptric System Optimisation for Omnidirectional RoboCup MSL Robots
10. Trenthan Owen, Rebecca Hillier and Darwin Lau. Smooth Path Planning Around Elliptical Obstacles Using Potential Flow for Non-Holonomic Robots
11. Aris Valtzanos and Subramanian Ramamoorthy. NaOISIS: A 3-D Behavioural Simulator for the NAO Humanoid Robot
12. Geovanny R. Giorgana and Paul G. Ploeger. Facial Expression Recognition for Domestic Service Robots
13. Susana Brandão, Manuela Veloso and João Paulo Costeira. Fast Object Detection By Regression in Robot Soccer
14. Christopher Stanton, Edward Ratanasena, Sajjad Haider and Mary-Anne Williams. Perceiving Forces, Bumps and Touches from Proprioceptive Expectations
15. Stephan Gspandl, Michael Reip, Andreas Hechenblaickner, Máté Wolfram, Christoph Zehentner and Gerald Steinbauer. The Ontology Lifecycle in RoboCup: Population From Text and Execution
16. Shokoofeh Pourmehr and Chitra Dadkhah. An Overview on Opponent Modeling in RoboCup Soccer Simulation 2D

11:10 Oral Presentation Session 1

11:10 Mohammad Norouzi, Freek De Bruijn and Jaime Valls Miro. Planning Stable Paths for Urban Search and Rescue Robots

11:30 Joerg Stueckler and Sven Behnke. Compliant Task-Space Control with Back-Drivable Servo Actuators

11:50 Feng Xue, Xiaoping Chen, Jinsu Liu and Daniele Nardi. Real Time Biped Walking Gait Pattern Generator for a Real Robot

12:10 João Cunha, Nuno Lau and João Rodrigues. Ball Interception Behaviour in Robotic Soccer

12:30 Lunch Break

13:30 Invited Talk: Dieter Fox. RGB-D Cameras: Challenges and Opportunities

14:20 Oral Presentation Session 2

14:20 Oliver Urbann, Stefan Czarnetzki and Sören Kerner. Rigid and Soft Body Simulation Featuring Realistic Walk Behaviour

14:40 Christian A. Mueller, Nico Hochgeschwender and Paul G. Ploeger. Towards Robust Object Categorization for Mobile Robots with Combination of Classifiers

15:00 Saskia Metzler, Matthias Nieuwenhuisen and Sven Behnke. Learning Visual Obstacle Detection Using Color Histogram Features

15:20 Poster Presentation Session 2 Teasers

15:40 Poster Presentation Session 2 & Coffee Break

1. Sören Kerner, Stefan Czarnetzki, Daniel Hauschildt and Oliver Urbann. Multi Body Kalman Filtering with Articulation Constraints for Humanoid Robot Pose and Motion Estimation
2. Ricardo Dodds, Luca Iocchi, Pablo Guerrero and Javier Ruiz-Del-Solar. Benchmarks for Robotic Soccer Vision
3. Jose I. Figueroa, Luis A. Contreras and Abel Pacheco. Development of an Object Recognition and Location System Using Microsoft Kinect(TM) Sensor
4. Valiallah Monajjemi, Ali Koochakzadeh and Saeed Shiry Ghidary. grSim - RoboCup Small Size Robot Soccer Simulator
5. Ernesto Torres and Leonardo Garrido. Automated Generation of CPG-based Locomotion for Robot Nao
6. Valerio Lattarulo and Sander G. Van Dijk. Application of the "Alliance Algorithm" to Energy Constrained Gait Optimization
7. Taro Inagaki, Akeru Ishikawa, Kazuhito Murakami and Tadashi Naruse. Robust Algorithm for Safety Region Computation and its Application to Defense Strategy for RoboCup SSL
8. Matthias Nieuwenhuisen, Ricarda Steffens and Sven Behnke. Local Multiresolution Path Planning in Soccer Games Based on Projected Intentions
9. A. Fernando Ribeiro, Gil Lopes, Bruno Pereira, Joao Silva, Paulo Ribeiro, Joao Costa, Sergio Silva, Joao Rodrigues and Paulo Trigueiros. Robot Orientation with Histograms on MSL
10. Piyush Khandelwal and Peter Stone. A Low Cost Ground Truth Detection System for RoboCup Using the Kinect
11. Tijn Van Der Zant. Adaptivity on the Robot Brain Architecture Level Using Reinforcement Learning
12. Timothy Wiley, Matthew McGill, Adam Milstein, Rudino Salleh and Claude Sammut. Spatial Correlation of Multi-Sensor Features for Autonomous Victim Identification
13. Brian Coltin, Joydeep Biswas, Dean Pomerleau and Manuela Veloso. Effective Semi-autonomous Telepresence
14. Anton Bogdanovych, Chris Stanton, Xun Wang and Mary-Anne Williams. Real-Time Human-Robot Interactive Coaching System with Full-Body Control Interface
15. Luís Oliveira, Luis Almeida and Frederico Santos. A Loose Synchronisation Protocol for Managing RF Ranging in Mobile Ad-Hoc Networks
16. Hugo Silva, André Dias, José Almeida, Alfredo Martins and Eduardo Silva. Real-Time 3D Ball Trajectory Estimation for RoboCup Middle Size League Using a Single Camera

16:20 Oral Presentation Session 3

16:20 Colin Graf and Thomas Röfer. A Center of Mass Observing 3D-LIPM Gait for the RoboCup Standard Platform League Humanoid

16:40 Hamid Moballeghe, Naja Von Schmude and Raúl Rojas. Gradient Vector Griding: An Approach to Shape-based Object Detection in RoboCup Scenarios

17:00 Aris Valtazanos and Subramanian Ramamoorthy. Online Motion Planning for Multi-Robot Interaction Using Composable Reachable Sets

17:20 Andreas Schmitz, Marcell Missura and Sven Behnke. Real-Time Trajectory Generation by Offline Footstep Planning for a Humanoid Soccer Robot

17:40 Panel Discussion: What Does It Really Take To Win?

18:20 Farewell