



HUMANIDS 2017

IEEE RAS International Conference on Humanoid Robots — November 15-17, 2017, Birmingham (UK)

The 12th Workshop on Humanoid Soccer Robots



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Preliminary Call for Papers (subject to workshop approval)

Humanoid soccer has seen impressive progress in recent years. Bipedal standard or open platforms (Nao, Robotis-OP2, Nimbro-OP, Thormang) make soccer robots accessible to many research groups, advanced 3D simulation games make the investigation of team play with complex heterogeneous humanoid robots possible, and soccer games for larger robots are a step towards playing with humans. The ultimate goal of this initiative is to develop a team of humanoid soccer players – i.e. robots with human-like awareness of the game situation, efficient and safe dynamic motion skills, and cooperation abilities. This poses a unique set of challenges to robotics, AI, and other fields. The workshop aims at bringing together researchers from the RoboCup and FIRA communities, as well as other researchers interested in the subject. The full-day program will consist of invited talks, contributed presentations, live demonstrations, and a panel discussion.

Since 2006, every year Humanoid Soccer Workshops have been held at the Humanoids conference. Special issues based on workshop contributions appeared in the International Journal of Humanoid Robotics and in the RAS Journal.

All contributed presentations are subject to a peer review process. We solicit submissions of original, previously unpublished research papers, optionally accompanied by a video.

Topics of Interest include, but are not limited to:

- Behavior control architectures
- Bipedal locomotion
- Design of humanoid robots
- Dynamic motions
- Heterogeneous humanoid robots
- Humanoid-human interaction
- Humanoid 3D printing
- Motion and action planning
- Perception of the game situation
- Safe and compliant humanoid robots
- Skill and strategy learning
- Team coordination
- 3D simulation of humanoid robots
- Humanoid mechanism design

Important Dates:

- Paper submission: September 30th, 2017
- Acceptance notification: Oct. 16th, 2017
- Final paper: October 31st, 2015
- Workshop day: November 15th, 2017

Workshop Organizers:

- Daniel M. Lofaro, George Mason University, USA
- Sven Behnke, University of Bonn, Germany
- Daniel D. Lee, University of Pennsylvania, USA
- Ulrich Hochberg, Offenburg University, Germany

More Info and Paper Submission: : <http://lofarolabs.com/events/robocup/ws17/>

