

| | Monday November 26 | | | Tuesday November 27 | | | |
|-------|--------------------|------------------|--|---|-------|--|--|
| AM1 | 8:40 | | | Welcome | | | |
| | 8:50 | Diamond | S1 Makoto Kaneko, Yoshihiko Nakamura | Introduction | 8:30 | Mechanism Innovation S5 Shigeo Hirose Introduction | |
| | 9:00 | | 40 Aggeliki Tsoli, Odest Chadwicke Jenkins | Robot Grasping for Prosthetic Applications | 8:40 | 4 Jean-Pierre Merlet Interval Analysis and Robotics | |
| | 9:20 | | 63 Shree Nayar, Gurunandan Krishnan, Michael Grossberg, Ramesh Raskar | Visual Chatter in the Real World | 9:00 | 31 Jake Abbott, Kathrin Peyer, Lixin Dong, Brad Nelson How Should Microrobots Swim? | |
| | 9:40 | | 72 Yoshiyuki Sankai | HAL: Hybrid Assistive Limb Based on Cybernics | 9:20 | 62 Kenji Hashimoto, Yusuke Sugahara, Hun-ok Lim, Atsuo Takanishi Optimization Design of a Stewart Platform Type Leg Mechanism for Biped Walking Vehicle | |
| 10:00 | | | Discussion | 10:00 | | Discussion | |
| | 10:20 | | Coffee Break | 10:20 | | Coffee Break | |
| AM2 | 10:40 | Anthropomorphism | S2 Paolo Dario, Hirochika Inoue | Introduction | 10:40 | Vision Innovation S6 Robert Bolles, Yoshiaki Shirai Introduction | |
| | 10:50 | | 25 Jean-Paul Laumond, Gustavo Arachavaleta, Tan-Viet Anh Truong, Halim Hicheur, Quang-Cuong Pham, Alain Bethoz | The Words of the Human Locomotion | 10:50 | 55 Andrew Howard, Larry Matthies, Andres Huertas, Max Bajracharya, Arturo Rankin Detecting Pedestrians with Stereo Vision: Safe Operation of Autonomous Ground Vehicles in Dynamic Environments | |
| | 11:10 | | 28 Katsu Yamane, Yoshihiko Nakamura | Robot Kinematics and Dynamics for Modeling the Human Body | 11:10 | 57 Toshikazu Wada Visual Object Tracking Using Positive and Negative Examples | |
| | 11:30 | | 59 Yasuo Kuniyoshi, Yoshiyuki Ohmura, Akihiko Nagakubo | Whole Body Haptics for Augmented Humanoid Task Capabilities | 11:30 | 65 Kurt Konolige, Motilal Agrawal, Joan Sola Large-Scale Visual Odometry for Rough Terrain | |
| | 11:50 | | | Discussion | 11:50 | | Discussion |
| | 12:10 | | Lunch | 12:10 | | Lunch | |
| PM1 | 14:00 | Learning | S3 Raja Chatila, Sebastian Thrun | Introduction | 14:00 | Sensing Innovation S7 Roland Siegwart Introduction | |
| | 14:10 | | 20 Dizan Vasquez, Thierry Fraichard, Christian Laugier | Incremental Learning of Statistical Motion Patterns with Growing Hidden Markov Models | 14:10 | 3 Alex Brooks, Stefan Williams A Monte Carlo Update for Parametric POMDPs | |
| | 14:30 | | 44 Dana Kulic, Wataru Takano, Yoshihiko Nakamura | Towards Lifelong Learning and Organization of Whole Body Motion Patterns | 14:30 | 50 Wan Kyun Chung, Sunghwan Ahn, Jung-Suk Lee, Kyoungmin Lee, Jinwoo Choi, Minyong Choi POSTECH Navigation Frame: Toward a Practical Solution for Indoor SLAM and Navigation | |
| | 14:50 | | 53 Ales Leonardis, Sanja Fidler | Learning Hierarchical Representations of Object Categories for Robot Vision | 14:50 | 51 Paul Newman, Manjari Chandran-Ramesh, Dave Cole, Mark Cummins, Alastair Harrison, Ingmar Posner, Derik Schroeter Describing, Navigating and Recognising Urban Spaces - Building an End to End SLAM System | |
| | 15:10 | | | Discussion | 15:10 | 71 Peter Hansen, Peter Corke, Wageeh Boles Outdoor Localization Using Visual Feature Matching and Image Retrieval | |
| | 15:30 | | Coffee Break | 15:30 | | Discussion | |
| | 15:50 | Understanding | S4 Henrik Christensen, Yasuo Kuniyoshi | Introduction | 15:50 | | Coffee Break |
| PM2 | 16:00 | | 10 Taketoshi Mori, Naofumi Hosoda, Tomomasa Sato | Objects Usual Places Extraction in Smart Space: Robotic Room | 16:10 | Officers' Session SS Makoto Kaneko | |
| | 16:20 | | 37 Bertrand Douillard, Dieter Fox, Fabio Ramos | A Spatio-Temporal Probabilistic Model for Multi-Sensor Multi-Class Object Recognition | 16:20 | John Hollerbach Measuring Fingertip Forces by Imaging the Fingernail | |
| | 16:40 | | 56 Helge Ritter, Robert Haschke, Frank Rothling, Jochen Steil | Manual Intelligence as a Rosetta Stone for Robot Cognition | 16:40 | Roland Siegwart Flying Micro-Robots -The Challenge of Downscaling | |
| | 17:00 | | | Discussion | 17:00 | Shigeo Hirose From Biologically Inspired Robots to Reality: Snake and Quadruped Walking | |
| | 17:20 | | | Discussion | 17:20 | | Dinner |
| | 18:00 | | Reception | 17:20 | | Dinner | |
| NS | 21:00 | Night Session 1 | NS1 Yoshihiko Nakamura | 23:00 (Video) | 20:00 | Night Session 2 | NS2 Oussama Khatib, Henrik Christensen |

Wednesday November 28

Thursday November 29

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| AM1 | 8:30 | Planning | S8 | Tomomasa Sato | Introduction | 8:30 | Manipulation | S10 | John Hollerbach | Introduction |
| | 8:40 | | 29 | Tirthankar Bandyopadhyay, Marcelo Ang, David Hsu | Motion Planning for 3-D Target Tracking among Obstacles | 8:40 | | 61 | Andrew Ng | STAIR: The Stanford Artificial Intelligence Robot Project |
| | 9:00 | | 39 | Colin Green, Alonzo Kelly | Toward Optimal Sampling in the Space of Paths | 9:00 | | 22 | Masahiro Kondo, Jun Ueda, Tsukasa Ogasawara | Recognition of In-Hand Manipulation by observing Contact State Transition for Robot Hand Control |
| | 9:20 | | 46 | Sam Prentice, Nicholas Roy | The Belief Road Map: Efficient Planning in Linear POMDPs by Factoring the Covariance | 9:20 | | 54 | Allison Okamura, Lawton Verner, Carol Reiley, Mohsen Mahvash | Haptics for Robot-Assisted Minimally Invasive Surgery |
| | 9:40 | | 14 | Kris Hauser, Victor Ng-thow-hing, Hector Gonzalez-Banos | Multi-Modal Motion Planning for a Humanoid Robot Manipulation Task | 9:40 | | 60 | Vincenzo Lippiello, Bruno Siciliano, Luigi Villani | A Framework for Force and Visual Control of Robot Manipulators |
| | 10:00 | | | | Discussion | 10:00 | | | | Discussion |
| | 10:20 | | | Coffee Break | 10:20 | | | | Coffee Break | |
| AM2 | 10:40 | Programming | S9 | Daniela Rus | Introduction | 10:40 | Interaction | S11 | Allison Okamura | Introduction |
| | 10:50 | | 58 | Takashi Uchiyama, Toshihiko Morita, Naoyuki Sawasaki | Development of Personal Robot | 10:50 | | 21 | Cynthia Breazeal, Jesse Gray, Matt Berlin | Mindreading as a Foundational Skill for Socially Intelligent Robots |
| | 11:10 | | 67 | Pierre Bessiere, Francis Colas | Bayesian Programming: Life Science Modeling and Robotics Applications | 11:10 | | 34 | Sami Haddadin, Alin Albu-Schäffer, Gerd Hirzinger | Safe Physical Human-Robot Interaction: Measurements, Analysis & New Insights |
| | 11:30 | | | | Discussion | 11:30 | | 52 | Nathan Michael, Jonathan Fink, Savvas Loizou, Vijay Kumar | Architecture, Abstractions and Algorithms for Controlling Large Teams of Robots: Experimental Testbed and Result |
| | 11:50 | | | | Discussion | 11:50 | | 68 | Simon Lacroix, Guy Le Besnerais | Issues in Cooperative Air/Ground Robotic Systems |
| PM1 | 13:00 | *** Boat to Miyajima *** (Lunch) Boat to Miyajima is set to sail at 13:00 at the pier located in front of the hotel. | | | | 12:10 | | | | Discussion |
| | 17:00 | ***Boat to Hotel*** Boat to Hotel is set to sail at 17:00. | | | | 12:30 | | | | *** Adjourn *** |
| | 18:30 | The bus for the banquet hall leaves the hotel at 18:30. | | | | 13:30 | | | | *** Peace Memorial Park (Optional Tour) *** The bus for Peace Memorial Park leaves the hotel at 13:30. |
| | 19:00 | | | | | 16:00 | | | | |
| | 21:00 | *** Banquet *** | | | | | | | | |
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PM2

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