

Finalists of Best Video

- OP:Sense – An integrated rapid development environment in the context of robot assisted surgery and operation room sensing,
Philip Nicolai, Tim Beyl, Holger Mönnich, Jörg Raczkowski and Heinz Wörn, GERMANY
- Towards Automated Micro-/Nano-scale Manipulation, Separation, Assembly, and Fabrication by Optically-Induced Dielectrophoresis
Shue Wang, Wenfeng Liang, Yanli Qu, Zaili Dong, Gwo-Bin Lee and Wen J. Li, CHINA

Best Video

“Towards Automated Micro-/Nano-scale Manipulation, Separation, Assembly, and Fabrication by Optically-Induced Dielectrophoresis”

Shue Wang, Wenfeng Liang, Yanli Qu, Zaili Dong, Gwo-Bin Lee and Wen J. Li

CHINA

Finalists of the Best Student Paper

- Learning Autonomous Drift Parking from One Demonstration,
Tak Kit Lau, HONG KONG SAR
- Ultrasound image-based comanipulation for enhanced perception of the contacts with a distal soft organ,
Cecile Poquet Torterotot, Marie-Aude Vitrani, Pierre Mozer and Guillaume Morel, FRANCE
- The design, modeling and control of a tethered aerial robot for search and rescue missions,
Mehdi Dehghan, Meysam Zarezadeh, Naeem Farhadian and Hadi Moradi, IRAN
- Mapping and Localization by Co-embedding of Observation Matrix,
Sho Nakamura and Takehisa Yairi, JAPAN
- Compatibility test on lower-extremity motion simulator to fMRI,
Takahiro Ikeda, Akira Matsushita, Kosaku Saotome, Yasuhisa Hasegawa and Yoshiyuki Sankai, JAPAN

Best Student Paper

“Learning Autonomous Drift Parking
from One Demonstration”

Tak Kit Lau

HONG KONG SAR

Finalists of the Best Paper in Biomimetics

- Haptic Feature Extraction from a Biomimetic Tactile Sensor: Force, Contact Location and Curvature
Nicholas Wettels and Gerald Loeb, USA
- Prehension Analysis and Manipulability of an Anthropomorphic Metamorphic Hand with a Reconfigurable Palm,
Guowu Wei, Vahid Aminzadeh and Jian S Dai, UNITED KINGDOM
- Pitch-Angle Feedback Control of a Biologically Inspired Flapping-Wing Microrobot
Nestor O. Perez-Arancibia, Pakpong Chirarattananon, Benjamin M. Finio and Robert J. Wood, USA
- Information Theoretic Analysis on a Soft Robotic Arm Inspired by the Octopus, Kohei Nakajima, Tao Li, Hidenobu Sumioka, Matteo Cianchetti and Rolf Pfeifer, SWITZERLAND
- Posture Analysis and Application of a Bionic Pectoral Foil,
Yueri Cai, Shusheng Bi, Kin Huat Low, Lige Zhang, and Guanghua Zong
CHINA

Best Paper in Biomimetics

“Haptic Feature Extraction from a Biomimetic Tactile Sensor: Force, Contact Location and Curvature”

Nicholas Wettels and Gerald Loeb

USA

Finalists of T. J. Tarn Best Paper in Robotics

- TPS-SURF-SAC Matching Approach of Feature Point Applied to Deformation Measurement of Nonrigid Tissues from MR Images, Xubing Zhang and Shinichi Hirai, JAPAN
- Theoretical and Experimental Study of Uncertain Set Based Moving Target Localization Using Multiple Robots, Feng Gu, Zheng Wang, Yuqing He, Jianda Han and Yuechao Wang, CHINA
- Dynamic Wafer Handling Process in Semiconductor Manufacturing, Heping Chen, Ben Mooring and Harold Stern, USA
- High Speed Micromanipulation System with Multi-Scalability, Ebubekir Avci, Kenichi Ohara, Tomohito Takubo, Yasushi Mae and Tatsuo Arai, JAPAN
- Volvot : a Spherical Mobile Robot with Eccentric Twin Rotors, Masato Ishikawa, Ryohei Kitayoshi and Toshiharu Sugie, JAPAN

T. J. Tarn Best Paper in Robotics

“Volvot : a Spherical Mobile Robot
with Eccentric Twin Rotors”

Masato Ishikawa, Ryohei Kitayoshi
and Toshiharu Sugie

JAPAN

Finalists of the Best Conference Paper

- A General Framework Integrating Exploration, Self-assembly and Locomotion Control for Swarm Robots
Hongxing Wei, Haiyuan Li, Youdong Chen and Jindong Tan, CHINA
- Spatio-Temporal Initialization for IMU to Camera Registration
Elmar Mair, Michael, Fleps, Michael Suppa and Darius Burschka, Germany
- The EPFL jumpglider: A hybrid jumping and gliding robot
Mirko Kovac, Wassim Hraiz, Oriol Fauria, Jean-Christophe Zufferey and Dario Floreano, USA/Switzerland
- The Encoding of Complex Visual Stimuli by a Canonical Model of the Primary Visual Cortex: Temporal Population Coding for Face Recognition on the iCub Robot
Andre Luvizotto, Cesar Rennó-Costa, Ugo Pattacini and Paul Verschure, SPAIN
- Hydrodynamic Performance of a Soft Body Under-actuated Batoid Robot,
Pablo Valdivia Alvarado, SINGAPORE

Best Conference Paper

“The EPFL Jumpglider: A Hybrid Jumping and Gliding Robot”

Mirko Kovac, Wassim Hraiz, Oriol Fauria,
Jean-Christophe Zufferey and Dario
Flozano

USA/Switzerland



**Congratulations to
all the finalists and winners!**