

Best Paper & Best Student Paper Awards

BEST PAPER FINALISTS

16 July, Tuesday, 13:30-15:30, HAMPTON

- Direct Aerial Visual Localization Using Panoramic Synthetic Images and Domain Adaptation**
Sufiyan, Danial (Singapore University of Technology & Design), Win, Luke Soe Thura (Singapore University of Technology & Design), Win, Shane Kyi Hla (Singapore University of Technology & Design), Tan, U-Xuan (Singapore University of Techonlogy and Design), Foong, Shaohui (Singapore University of Technology and Design)
- Optimizing Small-Scale Commercial Automation: Introducing WOS, a Low-Code Solution for Robotic Arms Integration**
Feng, Yue (Nanyang Technological University, University of Washington), Huang, Weicheng (WinGs Robotics LLC), Chen, I-Ming (Nanyang Technological University)
- Brain Computer Interface (BCI)-Enhanced Knee Exoskeleton Control for Assisted Sit-To-Stand Movement**
Zhu, Chunchu (Rutgers University), Maurya, Sushant (Indian Institute of Technology Kanpur), Yi, Jingang (Rutgers University), Dutta, Ashish (IIT Kanpur)
- A Nonlinear Model Predictive Control for Automated Drifting with a Standard Passenger Vehicle**
Meijer, Stan (BMW Group), Bertipaglia, Alberto (Delft University of Technology), Shyrokau, Barys (Delft University of Technology)
- Cross-Scan Error Evaluation of Large Size Polygon Mirror Based Laser Scanning System for Industrial 3D Printing**
Cong, Bo (TU Wien), Yoo, Han Woong (TU Wien), Pechgraber, Daniel (TU Wien), Schitter, Georg (TU Wien)
- Two-Stage Dichotomy Hybrid A* for Path Planning of Unmanned Mining Trucks in Large-Scale Open-Pit Mine**
Zhang, Yichen (Shanghai Jiao Tong University), Wang, Yafei (Shanghai Jiaotong University), Wu, Mingyu (Shanghai Jiao Tong University), Li, Zexing (Shanghai JiaoTong University), Li, Ruoyao (Shanghai Jiao Tong University)

BEST STUDENT PAPER FINALISTS

17 July, Wednesday, 10:15-12:15, HAMPTON

- Design and Evaluation of Modular Gas and Wind Sensing Nodes for Static and Mobile Deployments**
Jin, Wanting (EPFL), Droz, Emmanuel (EPFL), Martinoli, Alcherio (EPFL)
- Vibration Suppression Feedforward Control Using Active Mass Damper for Stacker Crane**
Hamanaka, Kiyotaka (The University of Tokyo), Ohnishi, Wataru (The University of Tokyo), Koseki, Takafumi (The University of Tokyo), Asai, Mitsuki (Toyota Industries Corporation), Yoshihara, Koji (Toyota Industries Corporation), Nawa, Masamichi (Toyota Industries Corporation), Kato, Norihiko (Toyota Industries Corporation)
- Magnetic Pantographic Exoskeleton Illustrated with a Biomimetic Ankle-Foot Simulator for 3DOF Non-Contact Actuation/Measurements**
Que, Zixin (Huazhong University of Science and Technology), Lee, Kok-Meng (Georgia Institute of Technology)
- Simultaneous Shape Reconstruction and Force Estimation of Soft Bending Actuators Using Distributed Inductive Curvature Sensors**
Mei, Yu (Michigan State University), Peng, Lei (Michigan State University), Shi, Hongyang (The University of Texas at Austin), Qi, Xinda (Michigan State University), Deng, Yiming (Michigan State University), Srivastava, Vaibhav (Michigan State University), Tan, Xiaobo (Michigan State University)
- Tuning Modules with Elastic Instabilities On-The-Fly for Reconfigurable Shapes and Motions**
Chen, Zhe (Colorado State University), Sun, Jiefeng (Arizona State University), Zhao, Jianguo (Colorado State University)
- Automated Model-Free Commutation for Coarse Pointing Actuators in Free-Space Optical Communication**
van Meer, Max (Eindhoven University of Technology), van Schie, Kjell (TU Eindhoven), Witvoet, Gert (Eindhoven University of Technology), Oomen, Tom (Eindhoven University of Technology)

A major advisor of the student author is required to fill out the [Nomination Form](#), and submit it through the submission portal at Papercept: Submission wizard ([papercept.net](#)).

The submission deadline is **May 10, 2024**.

A dedicated technical session will be held at the conference for the papers from the finalists of the Best Student Paper. The winners in both the Best Paper and Best Student Paper categories will receive an Award Certificate plus \$500 at the Award Ceremony on July 18, 2024. Certificates will also be presented to the author(s) of all finalist papers.

Download Best Student Paper Nomination Form

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