



GCCE 2021
 Kyoto, JAPAN
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Awards

IEEE GCCE 2021 Excellent Paper Awards

Gold Prize

- *Takafumi Hayashida (University of Miyazaki, Japan): "Evaluation of the Severity of Tremor Based on Each Signal Acquired from the Displacement of the Hand Movements"*

Silver Prize

- *Yinghao Wang (Tsukuba University, Japan): "A Surgical Bullet-Time Video Capturing System Depending on Surgical Situation"*

Bronze Prize

- *Kuan-Min Lee (National Chi-Nan University, Taiwan): "Edge Enhancement Loss Function for Target Object IR Image Super Resolution"*

Outstanding Prize

- *Yuan-Hao Ho (National Cheng Kung University, Taiwan): "A Real-Time Customer Tracking System Based on Ultra-Wideband Sensors"*
- *Takumi Kurokawa (Shizuoka University, Japan): "Robust Query-By-Example Spoken Term Detection for Unknown Words Using Speech Retrieval-Oriented E2E ASR Modeling"*
- *Ma Shoaib Bhuiyan (National Institute of Advanced Industrial Science and Technology (AIST), Japan): "Span-Based Neural Model for Multilingual Flat and Nested Named Entity Recognition"*
- *Palm Yangchen (Chiba Institute of Technology, Japan): "IoT Reliability Improvement Method for Secure Supply Chain Management"*
- *Ziwen Lan (Hokkaido University, Japan): "Multi-Label Image Recognition Based on Multi-Modal Graph Convolutional Networks Using Captioning Features"*

IEEE GCCE 2021 Excellent Student Paper Awards

Gold Prize

- *Xiu-Zhi Chen (National Taipei University of Technology, Taiwan): "A Lightweight Deep Learning Model for MOT"*

Silver Prize

- *Mayumi Takazaki (Aichi Institute of Technology, Japan): "Creating Interactive Digital Contents "Muchu Genka" and "Virtual Ikebana" Based on Japanese Flower Arrangement"*

Bronze Prize

- *Xiqin Lu (Okayama University, Japan): "Test Code Improvements for Code Writing Problem in Java Programming Assistant System"*

Outstanding Prize

- *Ryo Kashiwabara (University of Tsukuba, Japan): "Directional Resolution of Haptic Display Consisted of a Pair of Vibrators Embedded Earrings"*
- *Taro Kiriya (Kanazawa University, Japan): "Reduction of Timer Interrupts for Embedded Assembly Programs Based on Reduction of Interrupt Handler Executions"*
- *Shohei Nunohiro (Muroran Institute of Technology, Japan): "Travel Time Estimation of Ambulances Based on a Smartphone and Car-Mounted Camera Survey"*





SICE



The Japan Society of Applied Physics



- *Airi Nakamura (Aichi Institute of Technology, Japan): "Proposal of an Edge Processing System Supporting Flexible Service Deployments"*
- *Ryota Akimoto (Nagoya Institute of Technology, Japan): "Positive Effect of Slight Delay for Operational Performance"*

IEEE GCCE 2021 Excellent Poster Awards (On-site)

Gold Prize

- *Shunya Ohaga (Hokkaido University, Japan): "Action Classification from Egocentric Videos Using Reinforcement Learning-Based Pose Estimation"*

Silver Prize

- *Masaki Miyashita (University of Yamanashi, Japan): "Growing Rod System with Automatic Stop Mechanism Under Continuous Vibration Input "*

Bronze Prize

- *Kota Kachi (Muroran Institute of Technology, Japan): "Spatial Extraction of Pavement Damage Using Inspection Database with Car-Mounted Camera"*

IEEE GCCE 2021 Excellent Student Poster Awards (On-site)

Gold Prize

- *Taisei Hirakawa (Hokkaido University, Japan): "Analysis of Social Trends Related to COVID-19 Pandemic Utilizing Social Media Data"*

Silver Prize

- *Saya Takada (Hokkaido University, Japan): "Estimating Imagined Images from Brain Activities via Visual Question Answering"*

Bronze Prize

- *Tsubasa Maruyama (Yamagata University, Japan): "Effect of Snow Conditions on Speech Intelligibility ~Introduction of Wind Velocity, Temperature and Humidity~"*

IEEE GCCE 2021 Excellent Demo! Awards (On-site)

Gold Prize

- *Yuta Moritake (Ritsumeikan University, Japan): "Development of Invisible Information Lighting Display "Stego-Panel IV""*

Silver Prize

- *Tianyi Wang (Ritsumeikan University, Japan): "Development of a Music Interactive Online Fitness System for Shoulder Press Exercise: Latest Update for Biosignal Art "*

IEEE GCCE 2021 Excellent Poster Award (On-line)

Gold Prize

- *Mamoru Iwaki (Niigata University, Japan): "Performance Improvement in the Perceived Sound Source Direction with Bone-Conduction Headphones by Considering Individual Differences"*

Silver Prize

- *Tomoya Yasunaga (Okayama University of Science, Japan): "Object Detection and Pose Estimation Approaches for Soldering Danger Detection"*

Bronze Prize

- *Mano Moritani (Kansai University, Japan): "Improving Robustness of Helmet ANC with Auxiliary Filter-Based Virtual Sensing for Head Rotation"*

IEEE GCCE 2021 Excellent Student Poster Award (On-line)

Gold Prize

- *Yusuke Nosaka (Tokai University, Japan): "Proposal for a Saliency Map Based on the Focal Points of a Painting"*

Silver Prize

- *Mitsuaki Wada (University of Utsunomiya, Japan): "A Study on Indoor Positioning System Based on Sky Area of Sky Plot Mask by Spherical Camera"*



Bronze Prize

- *Kosuke Nakagawa (Nanzan University, Japan): "Proto-Type Development of Vibration-Induced Haptic Shoes for Perceiving the Front Obstacle"*

IEEE GCCE 2021 Excellent Demo! Award (On-line)

Gold Prize

- *Tannop Sangvanloy (Ritsumeikan University, Japan): "Toward a PCG-Driven 3D Game for Preclinical Detection of Dementia"*

Silver Prize

- *Fumiya Taki (Utsunomiya University, Japan): "A Study on Indoor Positioning Based on Attitude and Distance Estimations by Grid Search with Penalty Term"*

