

The 20th International Conference on Multimedia and Ubiquitous Engineering (MUE 2026)

April 23-25, 2026
Qingdao, China

Organized by KSDC

**& School of Information and Control Engineering
Qingdao University of Technology**

Technically Sponsored by KCIA





2026 International Conferences
(Organized by KSDC / Technically Sponsored by KCIA)

The 10th The International Conference on Big data, IoT, and Cloud Computing (BIC 2026)

- August 12-14, Danang, Vietnam
- <http://bic-conference.org/2026/>

The 18h International Conference on Computer Science and its Applications (CSA 2026)

- Dec 27-29, 2026, Kitakyushu, Japan
- <http://www.csa-conference.org/2026/>



The 2026 International Conference on
Big data, IoT, and Cloud Computing
<http://bic-conference.org/2026/>



Introduction

The 2026 International Conference on Big data, IoT, and Cloud Computing will be held in Danang, Vietnam, August 12-14, 2026. The BIC 2026 will be the most comprehensive conference focused on Big data, IoT, and Cloud Computing (BIC). The BIC 2026 will provide an opportunity for academic and industry professionals to discuss the latest issues and progress in the area of BIC such as model, algorithms, applications, services, performance and reliability for Big data, IoT, Cloud Computing. Also, the conference will publish high-quality papers which are closely related to the various theories and practical applications in Big data, IoT, and Cloud computing. Furthermore, we expect that the conference and its publications will be a trigger for further related research and technology improvements in those important subjects.

Important date

Submission Due: May. 29, 2026

Author Notification: Jul. 17, 2026

Conference Date: Aug. 12-14, 2026

Publication & Special Issue

All accepted papers will be published by conference PDF proceeding (without ISSN/ISBN).

After closing conference, accepted and presented papers will be recommended to

- Special Issues of the Intl' Journals indexed by SCIE/SCOPUS (30~40%)



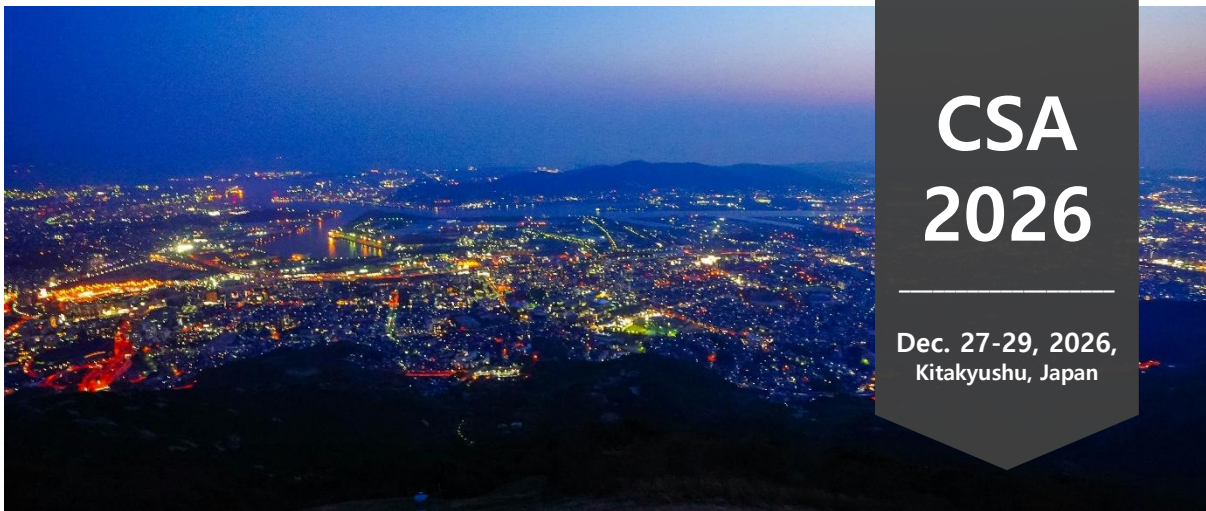
Contact Information: bic.conf.sec@gmail.com

If you want to publish an LNEE book, please contact us separately.





The 18th International Conference on
Computer Science and its Applications
<http://csa-conference.org/2026/>



CSA
2026

Dec. 27-29, 2026,
Kitakyushu, Japan

Introduction

The 18th International Conference on Computer Science and its Applications (CSA 2026) will be held on Dec. 27-29, 2026, Kitakyushu, Japan. The CSA 2026 will be the most comprehensive conference focused on the various aspects of advances in computer science and its applications. The CSA 2026 will provide an opportunity for academic and industry professionals to discuss the latest issues and progress in the area of Computer Science and Applications (CSA). In addition, the conference will publish high quality papers which are closely related to the various theories and practical applications in CSA. Furthermore, we expect that the conference and its publications will be a trigger for further related research and technology improvements in this important subject.

Important date

Submission Due: Sep. 5, 2026

Author Notification: Nov. 20, 2026

Conference Date: Dec. 27-29, 2026

Publication & Special Issue

All accepted papers will be published by conference PDF proceeding (without ISSN/ISBN).

After closing conference, accepted and presented papers will be recommended to

- Special Issues of the Intl' Journals indexed by SCIE/SCOPUS (20~40%)



Contact Information: csa.conf.sec@gmail.com



Message from the MUE 2026 General Chairs

MUE 2026 is the 20th event of the series of international scientific conference. This conference takes place on April 23-25, 2026 in Qingdao, China. The aim of the MUE 2026 is to provide an international forum for scientific research in the technologies and application of Multimedia and Ubiquitous Engineering. Ever since its inception, International Conference on Multimedia and Ubiquitous Engineering has been successfully held as MUE 2025(Zhangjiajie&Changsha, China), MUE 2024(Chongqing, China), MUE 2023(Phnom Penh, Cambodia), MUE 2022(Jeju, Korea), MUE 2021(Jeju, Korea), MUE 2020(Jeju, Korea), MUE 2019(Xian, China), MUE 2018 (Salerno, Italy), MUE 2017 (Seoul , Korea), MUE 2016 (Beij, ing, China), MUE 2015 (Hanoi, Vietnam), MUE 2014 (Zhangjiajie, China), MUE 2013 (Seoul, Korea), MUE 2012 (Madrid, Spain), MUE 2011 (Loutraki, Greece), MUE 2010 (Cebu, Philippines), MUE 2009 (Qingdao, China), MUE 2008 (Busan, Korea) and MUE 2007 (Seoul, Korea).

The conference papers included in the proceedings cover the following topics: Multimedia Modeling and Processing, Multimedia and Digital Convergence, Ubiquitous and Pervasive Computing, Ubiquitous Networks and Mobile Communications, Ubiquitous Networks and Mobile Communications, Intelligent Computing, Multimedia and Ubiquitous Computing Security, Multimedia and Ubiquitous Services, Multimedia Entertainment. Accepted and presented papers highlight new trends and challenges of Multimedia and Ubiquitous Engineering. We hope readers will find these results useful and inspiring for their future research.

We would like to express our sincere thanks to Steering Chair: James J. (Jong Hyuk) Park (SeoulTech, Korea). Our special thanks go to the Program Chairs: Ji Su Park (Jeonju University, Korea), Fei Hao (Xi'an Normal University, China), Alireza Souri(Islamic Azad University, Iran), Sherali Zeadally(University of Kentucky, USA), Yanbing Tian (Qingdao University of Technology, China), all Program Committee members and all reviewers for their valuable efforts in the review process that helped us to guarantee the highest quality of the selected papers for the conference.

MUE 2026 General Chairs

Jungho Kang, Baewha Women's University, Korea
Kim-Kwang Raymond Choo, The University of Texas at San Antonio, USA
Changhao Piao, Chongqing University of Posts and Telecommunications, China
David Camacho, Universidad Politecnica de Madrid Madrid, Spain
Wei Zhou, Qingdao University of Technology, China

Message from the MUE 2026 Program Chairs

Welcome to the 20th International Conference on Multimedia and Ubiquitous Engineering (MUE 2026) on April 23-25, 2026. MUE 2026 will be the most comprehensive conference focused on the various aspects of multimedia and ubiquitous engineering. It will provide an opportunity for academic and industry professionals to discuss recent progress in the area of multimedia and ubiquitous environment. In addition, the conference will publish high quality papers which are closely related to the various theories and practical applications in multimedia and ubiquitous engineering. Furthermore, we expect that the conference and its publications will be a trigger for further related research and technology improvements in these important subjects.

For MUE 2026, we received many paper submissions, after a rigorous peer review process, we accepted only articles with high quality for the MUE 2026 proceedings. All submitted papers have undergone blind reviews by at least two reviewers from the technical program committee, which consists of leading researchers around the globe. Without their hard work, achieving such a high-quality proceeding would not have been possible. We take this opportunity to thank them for their great support and cooperation. Finally, we would like to thank all of you for your participation in our conference, and also thank all the authors, reviewers, and organizing committee members. Thank you and enjoy the conference!

MUE 2026 Program Chairs

Ji Su Park, Jeonju University, Korea
Le Anh Ngoc, Swinburne University of Technology, Vietnam
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Neil Yen, University of Aizu, Japan

Yanbing Tian, Qingdao University of Technology, China

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Yoo-jae Won, Chungnam National University, Korea
Yongsheng Wang, Tsinghua University, China
Yu-Chen Hu, Providence University, Taiwan

Invited Speaker



Laurence Tianruo Yang

FCAE, FEIC, MAE, MNAAI, MRAE, FIEEE
Zhengzhou University, China

Abstract:

The booming growth and rapid development in embedded systems, wireless communications, sensing techniques and emerging support for cloud computing and social networks have enabled researchers and practitioners to create a wide variety of Cyber-Physical-Social Systems (CPSS) that reason intelligently, act autonomously, and respond to the users' needs in a context and situation-aware manner, namely Cyber-Physical-Social Intelligence. It is the integration of computation, communication and control with the physical world, human knowledge and sociocultural elements. It is a novel emerging computing paradigm and has attracted wide concerns from both industry and academia in recent years.

This talk will present our latest research on Cyber-Physical-Social Intelligence. Corresponding case studies in some typical applications will be shown to demonstrate the feasibility and flexibility.

Biography:

Laurence T. Yang got his BE in Computer Science and Technology and BSc in Applied Physics both from Tsinghua University, China and Ph.D in Computer Science from University of Victoria, Canada. He is the Academic Vice-President and Dean of School of Computer Science and Artificial Intelligence, Zhengzhou University, China. His research includes Cyber-Physical-Social Intelligence. He has published 600+ papers in the above area on top IEEE/ACM Transactions with total citations of 47000+ and H-index of 110 including 8 and 44 papers as top 0.1% and top 1% highly cited ESI papers, respectively.

His recent honors and awards include a member of National Academy of Artificial Intelligence (2025) and a member of Academia Europaea, the Academy of Europe (2021), IEEE CS Edward J. McCluskey Technical Achievement Award (2026), NAAI Distinguished AI Scholar Award (2025), IEEE TEMS Technical Achievement Award on Blockchain (2022), John B. Stirling Medal (2021) from Engineering Institute of Canada, IEEE Sensor Council Technical Achievement Award (2020), IEEE Canada C. C. Gotlieb Computer Medal (2020), IEEE TCSC Technical Achievement Award on Scalable Computing (2017), Clarivate Analytics (Web of Science Group) Highly Cited Researcher (2019, 2020, 2022, 2023, 2024, 2025), Fellow of Institution of Engineering and Technology (2020), Fellow of Institute of Electrical and Electronics Engineers (2020), Fellow of Engineering Institute of Canada (2019), Fellow of Canadian Academy of Engineering (2017), etc.

Invited Speaker



Dongya Zhao

School of New Energy
China University of Petroleum (East China), China, 266590

Biography:

Prof. Dongya Zhao is a professor and doctoral supervisor at China University of Petroleum (East China), and currently serves as Associate Dean of the School of New Energy. His research interests include intelligent process equipment, full-chain modeling and optimization for carbon dioxide capture, transportation, storage and utilization, electrification technologies for chemical processes, and automated inspection and cleaning of atmospheric vessels. He received his Ph.D. degree from Shanghai Jiao Tong University, and completed his postdoctoral research at Nanyang Technological University, Singapore, and China University of Petroleum (East China). Prof. Zhao has led several major research projects, including National Natural Science Foundation of China projects, Shandong provincial key R&D projects, Qingdao science and technology projects, as well as multiple industry-funded collaborative projects. He has achieved systematic research in process control, predictive control, sliding mode control, distributed cooperative control, and data-driven control, and has published many high-quality papers in journals such as Control Engineering Practice and Journal of Process Control. He has received several provincial- and ministerial-level awards, including the Second Prize of the Ministry of Education Science and Technology Progress Award and the First Prize of the China Energy Conservation Association Science and Technology Progress Award. He also serves on several professional committees of the Chinese Association of Automation and as an editorial board member of international journals.



PROGRAM Schedule for FutureTech & MUE 2026

Day 1, April 23, 2026			
Time	Min	HALL A	HALL B
09:20-09:40	20	Registration(Open only until 3 PM)	
09:40-11:00	80	Session A-1 FutureTech Chair: Byungseok Shin	Session B-1 FutureTech Chair: Jisu Park
11:00-11:10	10	Coffee Break	
11:10-12:30	80	Session A-2 FutureTech Chair: Xiaoyun Ye	Session B-2 MUE Chair: Xiaolin Chen
12:30-14:00	90	Lunch	
14:00-15:20	80	Session A-3 FutureTech Chair: Zhaoxu Hu	Session B-3 FutureTech Chair: Sheng Miao
15:20-15:30	10	Coffee Break	
15:30-16:00	30	Keynote Speech 1: Prof. Renmin Han Chair: Yeon Lee	
16:00-16:20	20	Awards Ceremony (Service Award, Best Paper) Chair: Yeon Lee	
16:20-16:50	30	Keynote Speech 2: Prof. Laurence Tianruo Yang Chair: Yeon Lee	
16:50-17:30	40	Break(Move to the banquet venue)	
17:30-19:30	120	Banquet	

Day 2, April 24, 2026			
Time	Min	HALL A	HALL B
09:40-10:00	20	Registration(Open only until 12PM)	
10:00-12:00	120	Session A-4 FutureTech Chair: Jong Hyuk Park	Session B-4 FutureTech & MUE Chair: Jungho Kang
12:00-13:00	60	Lunch	
13:00-13:50	50	Keynote Speech 3: Prof. Dongya Zhao Chair: Sheng Miao	
13:50-14:00	10	Break	
14:00-15:00	60	Organizing Committee Meeting I	
15:00-16:30	90	Local Arrangement Committee Meeting I	

Day 3, April 25, 2026			
Time	Min	HALL A	
09:00-10:30	90	Organizing Committee Meeting II	
10:30-12:00	90	Local Arrangement Committee Meeting II	

1. A paper presentation should be made by one of authors of the paper for 15 minutes (10 minutes for the presentation itself and 5 minutes for Q/A).
2. All speakers of each session should meet the session chair at their room 10 minutes before the session begins.
3. Windows OS PC/laptops running the Adobe Reader and Microsoft Office for paper presentations will be prepared. Please prepare for your presentation.
4. All online sections are played recorded video only.
5. For Q&A in the online section, please email the author.
6. Lunch is not provided.

DETAILED SCHEDULE FOR
THE 21TH INTERNATIONAL CONFERENCE ON FUTURE
INFORMATION TECHNOLOGY
(FUTURETECH 2026)

Day 1, April 23, 2026 (Thursday)

09:20-09:40 Registration (Open only until 3 PM)

09:40-11:00 Session A-1 Hall A Chair: Byungseok Shin

- 1. Deep Reinforcement Learning for Data Transmission Rate Control in Multicell Wireless Networks**
Soohyun Cho
- 2. Estimating Risk-Weighted Assets in Banking using Graph Attention Network**
Phuong Anh Nguyen, Anh Ngoc Le
- 3. Transformer Model for Dynamic Credit Risk Monitoring**
Anh Ngoc Le, Phuong Anh Nguyen
- 4. Learning Network Risk for Joint Portfolio and Capital Optimization in Banking**
Phuong Anh Nguyen, Anh Ngoc Le
- 5. A surrogate learning framework for fast prediction of OAM mode-purity spectra in vortex-wave scattering from metallic targets**
Sun Haozhe, Wu Tao, Ma liwen

09:40-11:00 Session B-1 Hall B Chair: Jisu Park

- 1. Wayfinding Behavior and Visual Image: Evaluation of Wayfinding Systems in Commercial Complexes Based on Eye-Tracking and Enhancement of Multimedia Interactivity**
xiaoyu Ji, Jiaqi Tong, Jiaxuan Shi, Mei Lyu
- 2. A Multi-Level Graph Learning Framework for Credit Risk Modeling**
Phuong Anh Nguyen, Anh Ngoc Le
- 3. Parallel Graph Learning for Credit Risk Anomaly Detection**
Anh Ngoc Le, Phuong Anh Nguyen
- 4. Price-Aware Deep Reinforcement Learning for Material-Value Chain Optimization in Power Asset Circular Economy**
Ailing Wang, Zhanlun Wen, Wenjun Song, Mingshun Fu, Huixue Li
- 5. Research on a Fine-Grained Dismantling and Valuation Model for Retired Transformers Using Multimodal Fusion and Multiple Regression**
Ailing Wang, Ying Zhao, Shengkai Wu, Wenjun Song, Huixue Li

11:00-11:10 Coffee Break

11:10-12:30 Session A-2 Hall A Chair: Xiaoyun Ye

1. **Research on sleep metabolic rate prediction model based on heart rate and respiratory rate**
Haonan Ma, Yanling Cui, Shuang Zhang, Guodan Liu, Songtao Hu
2. **Resilient Filtering for Discrete-Time Singularly Perturbed Markov Jump CPSs: A Probabilistic Dynamic Event-Based Approach Under Hybrid Cyber-Attacks**
Mengmei Luan, Suzhen Wang, Yanqian Wang
3. **Research on a path optimization algorithm based on enhanced DDPG for continuous dynamic obstacle environments**
Zhiyu Huang, Xiaoming Wu, Huaning Song, Xiaoliang Wang
4. **Emotion Recognition via Parallel gcForest with Stable Cross-Validation**
Yi Lu, Zongjing Cao, Zhoulei Cao, Yuzhen Liu, Xiaoliang Wang
5. **Design and Repair Behavior of Corrosion-induced Self-recovering Fibers**
Haocheng Zhang, Shaotao Ma, Zhenghu Zhang, Dongkai Wang, Yuyan Sun

11:10-12:30 Session B-2 Hall B Chair: Xiaolin Chen

1. **A Vulnerability Detection and Line-level Localization Method Based on Cross-modal Residual Co-attention**
Niandong Liao, Jiangjie Chen, Hongfei Liang
2. **NLF-Dance: Universal Monocular Capture of High-Difficulty Dance Movements in Multimedia Videos**
Zhiyong Xu
3. **Quantum-AI-Driven Cyber Threat Detection: A Comprehensive Survey and Future Perspectives on IBC-Based Cross-Chain Oracle Security**
Tae Hwan Lee, Jong Hyuk Park
4. **HT-ORAM: an oblivious and efficient cloud storage scheme**
Zhiqiang Wu, Jun Liu
5. **Predictive Horizontal Autoscaling Based on Uncertainty Quantification for Robust Microservices**
Byeonghui Jeong, Seungyeon Baek, Chaelin Son, Young-Sik Jeong

12:30-14:00 Lunch

14:00-15:20 Session A-3 Hall A Chair: Zhaoxu Hu

1. **DG-YOLOv8: Detail-Guided Dual-Branch Feature Interaction Network for UAV Pavement Crack Detection**
Pengcheng Du, Chenshuo Ye
2. **Automatic Segmentation and Geometric Quantification of Cracks in Complex Underground Rock Images**
Zimeng Wang, Chunbo Zhou, Chengzheng Cai, Di Wu, Yusong Miao
3. **Utilizing Dynamic Video and Time Series Data Based on Vision Transformer to Predict Turbidity in Wastewater Flocculation**
Zuoqian Hu, Xiao Guo, Xuefei Li, Chao Liu, Sheng Miao
4. **A novel IoT-based intelligent system for artificial indoor environment**
Xiaoli Zhao, Jing Wang, Yu Wang, Borui Wang, Sheng Miao, Songtao Hu
5. **Differential Local Thermal Demands of the Human Body During Summer Sleep Based on Data Association Mining**
Rujin Liu, Songtao Hu, Weiqiang Wang, Huili Yu

14:00-15:20 Session B-3 Hall B Chair: Sheng Miao

- 1. A Wheeled Robot-Based Human Tracking Platform for Information Acquisition in Artificial Laboratory Environments**
Haoran Wang, Mingzheng Wu, Haokun Sun, Sheng Miao, Songtao Hu
- 2. Construction and Cross-Tenant Validation of Ventilation-Related Behavioral Evidence from Smart-Home Data**
Wentao Yu, Songtao Hu, Guodan Liu
- 3. Research on Visual Harmony Perception of Architecture and Nature Environment Based on Eye Tracking Technology**
Mingze Wu, Suying Song, Shipeng Li, Yushan Song, Dongmiao Zhao
- 4. Carbon Reduction Potential of County-Scale Mountain Hotel Buildings Based on Satellite Remote Sensing Technology A Case Study of Anji County, Zhejiang Province, China**
Yiting Jin, Qian Wu, Gangwei Cai
- 5. Automation of Forgery Region Detection Using Post Processing of ELA(Error Level Analysis) Image**
YongSoo CHOI

15:20-15:30 Coffee Break

15:30-16:00 Keynote Speech 1 Hall A Chair: Yeon Lee

Prof. Renmin Han

16:00-16:20 Awards Ceremony Hall A Chair: Yeon Lee_

Service Award, Best Paper

16:20-16:50 Keynote Speech 2 Hall A Chair: Yeon Lee

Prof. Laurence Tianruo Yang

16:50-17:30 Break

Move to the Banquet Venue

17:30-19:30 Banquet

Qingdao Time Bar, Tsingtao Time Resort Hotel

青岛啤酒时光海岸度假酒店

Day 2, April 24, 2026 (Friday)

09:40-10:00 Registration

10:00-12:00 Session A-4 Hall A Chair: Jong Hyuk Park

- 1. A Standardized Calculation Model for Scrapped Smart Meter Dismantling: Value Estimation and Labor Efficiency Analysis**
Wenjun Song, Huixue Li, Xiangqing Wang, Yao Zhang
- 2. Standardized Length-to-Weight Conversion for End-of-Life Power Cables**
Xuhui Bian, Lixin Jiang, Huixue Li, Wenjun Song
- 3. Towards Food Sustainability and Security: Crop-Aware Network Optimization Using Multi-Agent Reinforcement Learning in Hybrid VLC/RF Systems**
Trung Kien Ngo, Nhung Vuong Thi, Phuong Anh Nguyen, Le Anh Ngoc
- 4. Smartphone Sensor Fusion for Karting Positioning and Timing: A Hybrid Filtering and Deep Learning Approach**
Ang Sha, Yong Zhang, Xiaolin Zang, Fuen Xue, Jinying Zhao
- 5. Coordinated Charging in Multi-Agent Systems: An Optimization and Game-Theoretic Interaction Framework**
Thuan Bui, Dzung Pham, Thinh Nguyen
- 6. Edge-Assisted Retrieval-Augmented Generation for Human-Robot Interaction in Educational Environments**
Van Dai Pham, Anh Ngoc Le
- 7. A Latent-Space-Based Framework for Continuous Background Modeling and Bandwidth-Efficient Video Transmission**
Van Dai Pham, Anh Ngoc Le
- 8. Study Progress on the Relationship Between Community Mental Health and Green Landscapes**
Junzhe Mo
- 9. Graph-Based Agentic Framework for Interpretable Financial Report Analysis**
Nguyen Van Tang, Nguyen Duc Anh

10:00-12:00 Session B-4 Hall B Chair: Jungho Kang

- 1. Citation-Aware Graph Contrastive Learning Framework for Research Papers Classification**
Dipto Biswas, Joon-Min Gil
- 2. Research on Intelligent Tongue Image Detection and Recognition System Based on Deep Learning and Its Correlation with Affective Computing**
Shuangyan Deng, Xiaoliang Wang, Zongjing Cao, Yuzhen Liu
- 3. A Psych-Conditioned Dual-View Temporal Fusion Network for Insider Threat Detection**
Jiarui Tang, Xiaoyun Ye
- 4. Review of Smart prefabricated building design**
Kang Liu, Wei Qian, Li Chen, Weijun Gao, Gangwei Cai
- 5. Reinforcement Learning-Based Autoscaling for Latency-Critical Serverless Functions**
Minsuk Jung, Subin Jeong, Donggyun Lee, Young-Sik Jeong
- 6. Removal of Specular Highlights in Endoscopic Images using 3D Gaussian Splatting**
Yeon Ji, Jae-Hyeong Kim, Byeong-Seok Shin
- 7. Post-Quantum Privacy and Security Model Testbed Design for Wired/Wireless Networks**

Borhan Uddin, Byung Hyun Jo, Na Yeong Kim, Abir EL Azzaoui, Jungho Kang, Jong Hyuk Park

8. Design of an IBC-Based Cross-Chain Oracle for Enhanced Data Sharing in Marine Blockchain Environments

Azhar Abbas, Jong Hyuk Park

9. A Study on Pre-warming Optimization for Cold Start Mitigation in Serverless Computing

Chan Haeng Lee, Ji Su Park

12:00-13:00 Lunch

13:20-13:50 Keynote Speech 3 Hall A Chair: Sheng Miao

Prof. Dongya Zhao

13:50-14:00 Break

14:00-15:00 Organizing Committee Meeting I

15:00-16:30 Local Arrangement Committee Meeting I

Day 3, April 25, 2026 (Saturday)

09:00-10:30 Organizing Committee Meeting II

10:30-12:00 Local Arrangement Committee Meeting II



Conference Venue



**School of Artificial Intelligence, School of Information and Control Engineering,
Qingdao University of Technology , 青岛理工大学**

Website: <https://ai.qut.edu.cn/>

Address: X6G3+8X5, Huangdao, Qingdao, Shandong, China 266525

Email: xinkong@qut.edu.cn



Banquet



Qingdao Time Bar, Tsingtao Time Resort Hotel 青岛啤酒时光海岸度假酒店

Address: No.1356 Jinshatan Rd, Huang Dao Qu, Qingdao, Shandong, China 266520
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