

# 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)	
09:40-10:50	70	Session A-1 FutureTech Chair: Byungseok Shin	Session B-1 FutureTech Chair: Jisu Park
10:50-11:00	10	Coffee Break	
11:00-12:20	80	Session A-2 FutureTech Chair: Xiaoyun Ye	Session B-2 MUE Chair: Xiaolin Chen
12:20-13:30	70	Lunch	
13:30-14:00	30	Keynote Speech 1: Prof. Laurence Tianruo Yang Chair: Yeon Lee	
14:00-14:30	30	Keynote Speech 2: Prof. Dongya Zhao Chair: Yeon Lee	
14:30-14:50	20	Awards Ceremony (Service Award, Best Paper) Chair: Yeon Lee	
14:50-15:00	10	Coffee Break	
15:00-16:20	80	Session A-3 FutureTech Chair: Zhaoxu Hu	Session B-3 FutureTech Chair: Sheng Miao
16:20-17:00	40	Break(Move to the banquet venue)	
17:00-19:00	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	<b>Session A-4 FutureTech</b> Chair: Jong Hyuk Park	<b>Session B-4 FutureTech &amp; MUE</b> Chair: Jungho Kang
12:00-13:00	60	Lunch	
13:00-13:50	50	<b>Keynote Speech 3: Prof. Renmin Han</b> 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)**

**09:40-10:50**    **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*

**09:40-10:50**    **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*

**10:50-11:00**    **Coffee Break**

11:00-12:20 **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*

11:00-12:20 **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*

12:20-13:30 **Lunch**

13:30-14:00 **Keynote Speech 1** Hall A Chair: Yeon Lee

**Prof. Laurence Tianruo Yang**

14:00-14:30 **Keynote Speech 2** Hall A Chair: Yeon Lee

**Prof. Dongya Zhao**

14:30-14:50 **Awards Ceremony** Hall A Chair: Yeon Lee

**Service Award, Best Paper**

14:50-15:00 **Coffee Break**

**15:00-16:20    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*

**15:00-16:20    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*

**16:20-17:00    Break**

Move to the Banquet Venue

**17:00-19:00    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 Hall A Chair: Sheng Miao**

**Prof. Renmin Han**

**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**