

2026 International Conference on Culture-oriented Science & Technology (CoST 2026)

Conference Schedule

Time: 2026.8.13-2026.8.16

Venue:

(1) Aug. 13-14, 2026, Auditorium Hall, Bangunan Tun Tan Siew Sin, Tunku Abdul Rahman University of Management and Technology (TAR UMT)

Add: Jalan Genting Kelang, 53300 Kuala Lumpur, Malaysia.

(2) Aug. 15-16, 2026, International Zheng He Research Academy

Add: 42A&44A, Lorong Hang Jebat, 75200 Melaka, Malaysia.

| Date | Arrange |
|------|--|
| 8.13 | Venue: Auditorium Hall, Bangunan Tun Tan Siew Sin, Tunku Abdul Rahman University of Management and Technology (TAR UMT) 1. Registration: 9:00-12:00 2. Roundtable Seminar: 14:00-17:00 |
| 8.14 | Venue: Auditorium Hall, Bangunan Tun Tan Siew Sin, Tunku Abdul Rahman University of Management and Technology (TAR UMT) 1. Opening Ceremony & Keynote Speech: 9:00-12:00 2. Networking Session and Refreshments: 14:00-16:00 |
| 8.15 | Venue: International Zheng He Research Academy 1. Parallel Sessions: 9:00-12:00 2. Parallel Sessions: 14:00-17:00 |
| 8.16 | Venue: International Zheng He Research Academy 1. Parallel Sessions: 9:00-12:00 2. Parallel Sessions: 14:00-17:00 |

2026 International Conference on Culture-oriented Science & Technology (CoST 2026)

TAR UMT Hosting Programme (Tentative)

Date: Friday, 14 August 2026

Venue: Auditorium, Bangunan Yun Tan Siew Sin, Tunku Abdul Rahman University of Management and Technology (TAR UMT), Kuala Lumpur, Malaysia

| Time | Programme |
|-------------------------|--|
| 8:30 - 9:00 a.m. | Registration of Participants |
| 9:00 - 9:05 a.m. | Arrival of VIPs and Guests |
| 9:05 - 9:10 a.m. | Emcee's Welcome and Introduction |
| 9:10 - 9:20 a.m. | Welcoming Speech by Representative from TAR UMT |
| 9:20 - 9:30 a.m. | Welcoming Speech by Representative from CUC |
| 9:30 - 9:45 a.m. | Memorandum of Understanding (MoU) Signing Ceremony |
| 9:45 - 10:00 a.m. | Launch Ceremony officiated by Representatives from CUC and TAR UMT |
| 10:00 - 10:10 a.m. | Group Photograph |
| 10:10 - 10:30 a.m. | Morning Tea Break |
| 10:30 - 11:00 a.m. | Keynote Address 1 (TAR UMT) |
| 11:00 - 11:30 a.m. | Keynote Address 2 (CUC) |
| 11:30 a.m. - 12:00 noon | Keynote Address 3 (TAR UMT) |
| 12:00 - 12:30 p.m. | Keynote Address 4 (CUC) |
| 12:30 - 1:45 p.m. | Lunch Break |
| 1:45 - 2.00 p.m. | Free and Networking Session / Preparation for Campus Tour |
| 2:00 - 2.45p.m. | Campus Tour |
| 3.00 - 4:00 p.m. | Networking Session and Refreshments |
| 4:00 p.m. | End of Programme |

**Parallel Session 1, 2026.8.15, Moderator: Shufeng Li, Contact: Haorong Guo
Venue: International Zheng He Research Academy, 42A&44A, Lorong Hang
Jebat, Melaka, Malaysia.**

| | | |
|-------------|---|--|
| 9:00-9:15 | Dongxia Wang, Wen Liu, Wei Huang, Wei Jiang | Core-Guided NeuralUCB for Online Influence Maximization |
| 9:15-9:30 | Yihan Lin, Shuang Wang, Xinjie Hou, Qiaofang Cao | Development of Peking Opera Multimodal Knowledge Graph Construction and Retrieval Application |
| 9:30-9:45 | Yinan Lu, Ying Huang, Jie Liu, Guixuan Zhang, Zhi Zeng, Shuwu Zhang | A Survey on Audio Deepfake Detection |
| 9:45-10:00 | Luping Lai, Shufeng Li | An AI-Driven Framework for Multimodal Interpretation and Dissemination of Cultural Heritage |
| 10:00-10:15 | Alicia Yuting Dai, Xiaoge Zhou, Runze Li, Yajin Li | How Site Experience Mediates Celebrity Worship Effects in Fan Tourism |
| 10:15-10:30 | Zhen Cao, Huiqin Wang | Real-Time Synchronous Stage Lighting Control System Based on Dance Movement Emotion Recognition |
| 10:30-10:45 | Yu Zhang, Qihui Hu | Construction of a Micro-Lecture Evaluation Indicator Framework Based on the Delphi Method |
| 10:45-11:00 | Jinghao Zhang, Sitong Lin, Yuanhan Zhang, Chenxi Dai, Xiao Xiao, Xinrong Liu, Yuan Zhu, Ze Bian | An AIGC- Assisted Co-Creation Framework for Oil-Paper Umbrellas Based on Traditional Wedding Motifs |
| 11:00-11:15 | Huaxin Li, Wenxi Quan, Zijun Xin | A Trustworthy Edge-AI Digital Human Q&A System for Curated Virtual Exhibitions |
| 11:15-11:30 | Fang Guo, Yulong Gao, Jian Jiang, Shibo Gao | Multimodal Pretrained Representation and Density-Aware Screening for Performing Arts Video Classification |
| 11:30-11:45 | Zhen Li, Xinyue Wang, Haoxuan Tian, Qian Zhou | Sensitivity Analysis of Reverberation Time to Acoustic Zone Absorption Coefficients in Theater Sound Field |
| 11:45-12:00 | Yufei Wang, Zhi Zeng | Cultural-Digitalization Enterprise Discovery: Task, Evaluation, and Evidence-Aware Retrieval |

**Parallel Session 2, 2026.8.15, Moderator: Yuan Zhang, Contact: Peiying Yu
Venue: International Zheng He Research Academy, 42A&44A, Lorong Hang
Jebat, Melaka, Malaysia.**

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|-------------|---|--|
| 14:00-14:15 | Jiaxin He, YongYin Kong, Mengmeng Zhan | Digital Art Therapy: Adaptive Immersive Sleep Therapy System Using Biofeedback and Mindfulness Relaxation |
| 14:15-14:30 | Lin Qi | Translating Film Sound to Themed Environments via Harry Potter World at Universal Beijing Resort |
| 14:30-14:45 | Wei Hua, Binyan Liu, Bin Lu, Ita Wang | Loudness Trends in Southeast Asian Popular Music in the Streaming Era: A Case Study of Malaysia, Philippines, and Thailand |
| 14:45-15:00 | Miaotong Yuan, Zida Yang, Yuxuan Cao | A Comparative Study of GPT-5.2 and Qwen-Max for Chinese Film Script Continuation |
| 15:00-15:15 | Xiaoqi Guo | Source-Grounded Artificial Intelligence-Assisted Sonic Curation for Interpretable Musical Heritage Interaction Systems |
| 15:15-15:30 | Zhanglin Cai, Weiyi Dai, Tiansheng Dong | An AI-Mediated Semantic Routing System for Audio-Visual Interaction in Participatory Soundscape Performance |
| 15:30-15:45 | Mohan Zhao | Construction of Immersive Performance Auditory Space for Intelligent Audio-Visual Interaction |
| 15:45-16:00 | Mingjing Zhang, Yina Ma | Sound Cocoon: A Spatial Audio Archive Architecture with Artificial Intelligence Ethics Framework |
| 16:00-16:15 | Ruihan Qin | From Explicit Complexity to Environment-Triggered Interaction: Cognitive Load Mechanism in Shared ICH Immersive Spaces |
| 16:15-16:30 | Mengwen Tan, Leran Zhang | SonicMachine: Embodied Gesture Tracking System for 5.1 Spatial Audio Interactive Music Environments |
| 16:30-16:45 | Zhenyi Hou, Tianhao Zhang, Yan Zou, Yue Fan, Chengwei Xu, Shanggerile Jiang, Xinyu Sheng, Guangyu Fan | VocalAV-Distill: Temporal Knowledge Distillation for Real-Time Singing Technique Scoring and Audio-Driven Visual Feedback |
| 16:45-17:00 | Xin Wei | Soundscape Mapping for Interactive Audio-Visual Design in Virtual Heritage Environments |

**Parallel Session 3, 2026.8.16, Moderator: Ming Yan, Contact: Rui Ding
Online: 789-877-426 (Tencent Meeting)**

| | | |
|-------------|---|--|
| 9:00-9:15 | Guanchu Xu, Long Wang, Zheng Yao | Empirical Evaluation of Magic Circle Perforation Interaction Mechanisms in Narrative Games |
| 9:15-9:30 | Yipei Ye | Towards an AI-Ready High-Quality Dataset for Ancient Chinese Artifacts: A Standardization-Oriented Construction Framework |
| 9:30-9:45 | Jinbao Song, Luoying Xiong | Multimodal Sarcasm Detection Based on the MUsTARD Dataset: A Study on the Fusion Method of Text and Acoustic Features |
| 9:45-10:00 | Qiuyu He, Zining Wu, Lianyu Liu, Xiaofang Jin | Key Visual Constraint-Driven Prompt Inversion for Text-to-Image Generation |
| 10:00-10:15 | Wenbo Jia, Tian Zhao, Ming Yuan | A Co-creative Virtual Reality System Integrating Generative AI for Personalized Anxiety Intervention |
| 10:15-10:30 | Yuhua Fang, Anqi Liu, Noor Mala Ibrahim, Yifei Su | Expression Divergence in LLM-based Chinese-to-English Translation of International Publicity Texts: A Case Study of the Government Work Report |
| 10:30-10:45 | Tian Zhao, Wen Zhou, Yansong Chen | Interstellar Parcels: Embodied Augmented Reality for Emotion Cognition in Autistic Children |
| 10:45-11:00 | Weitong Sun, Yuan Ni, Feng Lei | Flexible Trading Mode of Cultural Product Property Rights and Platform Service Value: A Mixed-Method Study |
| 11:00-11:15 | Tian Zhao, Wenbo Jia | From Tool to Companion: How Voice vs. Text Shapes Role Perception and Intimacy with Large Language Models |
| 11:15-11:30 | Jichao Yin, Dan Sun, Dianli Yu, Jiahao Yu, Jicheng Lai, Xiaoyong Lu | The Impact of Pride Emotions on Risk Decision-Making and Its Mechanistic Effects |
| 11:30-11:45 | Xingwen Wang, Zhibin Su, Yujian Jiang | A 2D LiDAR-Based Dynamic Tracking Method for Immersive CAVE Projection Systems |
| 11:45-12:00 | Zihan Guo, Yilu Gong, Haitao Zhou | Generative AIGC Optimization of Urban Park Nodes Using Nighttime Well-being Metrics |

**Parallel Session 4, 2026.8.16, Moderator: Jingyu Liu, Contact: Weimeng Qian
Online: 320-977-686 (Tencent Meeting)**

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|-------------|---|---|
| 9:00-9:15 | Xunuo Mao, Jinhua Dou, Xingyu He, Xinrong Ma | Research on the Evaluation Framework for AIGC-Assisted Cultural Heritage Innovative Design Outcomes |
| 9:15-9:30 | Yi Yu, Huan Zhang | Cultural Gene Mapping and Interactive Digital Narrative Design for Zheng He's Maritime Heritage |
| 9:30-9:45 | Yi Yu, Yige Gao | Player-Viewer Identity Continuum and Immersion Mechanisms in Transmedia Film-Game Convergence |
| 9:45-10:00 | Nan Li, Yulong Gao | TRACE-Pareto Governance for Coordinated Opinion Manipulation in Recommender-Mediated Social Simulation |
| 10:00-10:15 | Yutong Liu, Yang Shan, Zhenbin Zhang | Digital Translation and Emotional Design of Peking Opera Cultural IP for Female Consumer |
| 10:15-10:30 | Lipeng Xu | Archaeology of Gazing: The Spatial Visual Script of Mogao Grottoes No. 172 |
| 10:30-10:45 | Jiahui Wang, Yujuan Xing, Wei Wei, Liang Jiang | Digitally Intelligent Heritage and Innovation of Linxia Brick Carving Using Multimodal Agents and Human-Machine Collaboration |
| 10:45-11:00 | Fan Wu, Peng Lu | An AIGC-Driven Method for Product Emotional Color Design and Aesthetic Evaluation |
| 11:00-11:15 | Caiwen Zhao, Xiaoyi Peng | Symbolic Interaction Analysis of Prefabricated Behaviors in WeChat Moments |
| 11:15-11:30 | Juanjuan Cai, Jiaoyang Wang, Ting Zhou, Zhengansheng Chen, Chuanzhen Li, Runyu Tian | Enhancing Explainability of Course Recommendation via Context-Guided and Domain-Aware Prompt Tuning |
| 11:30-11:45 | Ke Hu | Power Design and Structural Simulation of a Movable Stage Cage Based on Cyber-Physical Integration |
| 11:45-12:00 | Xiaoyi Peng, Caiwen Zhao | Generative AI-Enabled Symbol Reconstruction in Chu Lacquerware Short Videos |

**Parallel Session 5, 2026.8.16, Moderator: Nuo Pang, Contact: Chenyu Zhang
Online: 268-351-255 (Tencent Meeting)**

| | | |
|-------------|--|---|
| 14:00-14:15 | Wei Yang, Jie Zhang | Design and Optimization of Museum Virtual-Physical Interaction Systems Based on Digital and Intelligent Technologies |
| 14:15-14:30 | Zhenbin Zhang, Yang Shan, Suhang Li, Yutong Liu | AHP-FBS-Based Design of a Directed-Curing Inspection and Repair Device for Utility-Tunnel Gas Compartments |
| 14:30-14:45 | Ke Li, Suhe Ji | Virtual Reality Enhances Flow in 360° Video via Presence |
| 14:45-15:00 | Jiajia Fan, Yujuan Xing, Ruiling Ma, Jiani Shao, Xiuli Yang, Kehuan Li | Design and Implementation of a Multimodal Interaction System for Digital-Intelligent Shadow Puppet Performance |
| 15:00-15:15 | Jingyu Liu, Yujia Lin, Shuang Wang, Zhibin Su, Wei Jiang | Documentation, Not Enhancement: Faithful Multi-View Light Borrowing for Low-Light Recovery of Cultural-Heritage Gilt-Bronze Statues |
| 15:15-15:30 | Lingyun Jia, Bing Xia | Mechanism Analysis of DeepSeek Adoption Intention Among College Student Users |
| 15:30-15:45 | Ruimin Wang, Yue Dong | An Innovative Modular Combined Lighting Bridge for Flexible and Efficient Stage Lighting Applications |
| 15:45-16:00 | Tianhao Wang, Yujian Jiang, Wei Jiang, Zhibin Su, Yingruoheng Li, Qingchen Nie | TorchForms: From Per-Fixture Control to Group-Level Curve Control for Stage Lighting |
| 16:00-16:15 | Xinzhu Pu, Hongjie Zhang, Yi Zhou, Yuyan Yang | A Multimodal Human-Supervised Framework for Measuring Clinical-Regulatory Semantic Drift in GLP-1 Platform Content |
| 16:15-16:30 | Yi Zhou, Yuyan Yang, Xinzhu Pu | An LLM-Assisted Virtual Interactive Game Prototype for Adolescent AI Science Popularization |
| 16:30-16:45 | Yuyan Yang, Yi Zhou, Xunzhu Pu | EduVideoGen: A Knowledge-Driven Modular Framework for AI-Assisted Science Popularization Video Production |
| 16:45-17:00 | Yilu Gong, Yiting Shi, Zihan Guo, Leichang Huang, Fan Wu | Cultural Value Exploration of the Visual Symbol System in Chinese Ancient Architectural Roofs |
| 17:00-17:15 | Nuo Pang, Jing Cao, Ningze Zou, Xingbo Shi | A Bat-Inspired Flapping-Wing Robot with Dual-Modal Detection for Post-Disaster Search and Rescue |
| 17:15-17:30 | Bo Wang | Aging-Adaptive Construction and Intelligent Interaction Optimization for Smart Pension Communities |

**Parallel Session 6, 2026.8.16, Moderator: Huiqin Wang, Contact: Qingqian Li
Online: 729-430-541 (Tencent Meeting)**

| | | |
|-------------|--|---|
| 14:00-14:15 | Yiran Zhao, Yujie Shi | SmartInspect: An NFC-Driven Integrated Inspection System for Performing Arts Equipment |
| 14:15-14:30 | Hao Lu, Meicen Liu, Enyuan Dong, Yibo Ren, Wei Zhou | A Three-Dimensional Digital Scene-Driven Lifting Planning Method for Smart Construction of Industrial Tourism Cultural Facilities |
| 14:30-14:45 | Tingxuan Wang, Yingruoheng Li, Qingchen Nie, Fang Sun, Weiyi Pan | An Intelligent Image-to-Video Generation System for Dance Drama Video Re-Creation |
| 14:45-15:00 | Xuelu Qiu, Guanghui Min, Zhe Li | Theoretical Evolution, Technology Application and Ethical Governance of Cultural AI |
| 15:00-15:15 | Ning He, Yichao Zhou, Mengna Guo, Yi Zhou | AI-Enhanced 3D Design Modeling for Design Translation of Chinese Opera Costume Elements |
| 15:15-15:30 | Jingwen Lu, Fang Sun, Qingchen Nie, Kuojia Chen | Differential Constrained S-Curve Trajectory Planning for Tall Stage Wagons |
| 15:30-15:45 | Zhen Li, Qian Zhou, Yuxin Liu, Hui Ren, Zengrui Li | Simulation Analysis of Adjustable Reverberation Time Using Laminated Sound-Absorbing Curtains in Indoor Performance Spaces |
| 15:45-16:00 | Yuxin Fu, Yue Dong, Chaohui Lv | Optimization Study of Motor-driven Ball Screw Stage Elevating Device Based on Finite Element Analysis |
| 16:00-16:15 | Jiayin Wang, Shuang Wang, Qiaofang Cao, Xinjie Hou | Design and Implementation of a Digital Preservation and Revitalization Platform for Ming-Qing Ornaments |
| 16:15-16:30 | Wenxia Li, Wenting Liang | Affordance-AHP-FCE Framework for Perfume Bottle Design with Traditional Cultural Properties |
| 16:30-16:45 | Hui Ren, Weiyue Ding, Haiya He, Zhijie Liu | Key Technologies For The Networking Of Centralized Control Systems For Performance Equipment Used In Exhibition Venues |
| 16:45-17:00 | Yiting Wu, Xin Wang | Structured Semantic Prompting and Low-Rank Adaptation Fine-Tuning for Small-Sample Cartoon Image Generation |
| 17:00-17:15 | Jingrui Liang, Nuo Pang, Jing Cao, Ningze Zou | AIGC-Driven Marine IP Image Design Based on Regional Culture |
| 17:15-17:30 | Shiyue He, Jing Cao, Nuo Pang | Innovative Design of Intelligent Music Box Based on Hierarchical Emotional Experience Framework |