

Conference Schedule

Conference Date: September 20–22, 2025

Conference Venue: Dunhuang Resort, Dunhuang City, Gansu Province

Date	Schedule
September 20, 2025 (Saturday)	Conference Registration Time: 08:00–24:00 Venue: Hongyuan Hall Lobby, Dunhuang Resort, Dunhuang City, Gansu Province
September 21, 2025 (Sunday)	Conference Registration Time: 08:00–24:00 Venue: Hongyuan Hall Lobby, Dunhuang Resort, Dunhuang City, Gansu Province
	World Cultural Heritage Study Tour Time: 08:00–12:00 Venue: Mogao Caves, Dunhuang
	Opening Ceremony & Keynote Speeches Time: 14:00–18:00 Venue: Fengle Hall, Dunhuang Resort, Dunhuang City, Gansu Province
September 22, 2025 (Monday)	Thematic Seminars Time: 08:30–12:00 Venue: Dayuan Hall, Xiaoyuan Hall, Xiaogu Hall, Dunhuang Resort, Dunhuang City, Gansu Province, and Online via Tencent Meeting

Keynote Speeches

Time	Presentation Title	Speaker
16: 00- 16: 20	Promoting the Heritage of the Great Silk Road through Technology (The Case of Uzbekistan)	Assoc. Prof. Mardon Khasanov, Urgench State University, Uzbekistan
16: 20- 16: 40	Bridging minds: Bringing a culture orientation to science and technology innovation	Prof. Ian Rivers, Vice Chancellor, University of Strathclyde, UK
16: 40- 17: 00	Cultivating Innovative Talents to Empower the Integration of Culture and Technology	Prof. Zou Tongqian, Vice Chancellor (Online), Silk Road International University of Tourism and Cultural Heritage, Uzbekistan
17: 00- 17: 20	Cultural technology 2030: Trends, Challenges and opportunities	Assoc. Prof. Muhammad Sajid Mehmood, Visiting Scholar, Pingdingshan University, China
17: 20- 17: 40	Technology Empowering Sustainable Tourism Development and Living Heritage along the Belt and Road	Mr. Azimov Farukh, Investment Advisor, Embassy of Uzbekistan in China
17: 40- 18: 00	Transdisciplinary Research on Smart Culture and Tourism	Prof. Xiaoting Huang, Vice Dean, Shandong University

Parallel Session I

Time: Monday, September 22, 8:30 – 12:00

Venue: Dayuan Hall, Dunhuang Resort, Dunhuang City, Gansu Province

Chair: Zhenqi Nan (Lanzhou Nantes Digital Technology Co., Ltd.) Secretary: Wenqian Tao	
08:30-08:45	Title: Carbon Emission Accounting and Low-Carbon Management for Binggou River Scenic Area Author: Weibao Sun, Yafang Gao, Xuemei Yang
08:45-09:00	Title: Coupled and Coordinated Development of Red Tourism and Rural Revitalization Author: Ning Xu, Qicong He, Yang Zhang, Shujun Liu, Huaigu Tian, Yu'en Cai
09:00-09:15	Title: Design of a Coordinated Control System for Flying Bars Based on Digital Twin Technology Author: Huiqin Wang, Huiya Cao, Louyawen Zhao
09:15-09:30	Title: An Analysis and Research on the Optimization Strategy of Sports Tourism Marketing in Hainan Province based on the SWOT Method Author: Aoxue Xing, Kejun Wu, Jingbo Zhou, Lihui Su
09:30-09:45	Title: A Lightweight NeXt-Unet Algorithm for Long-Distance Speech Enhancement Author: Ziqi Zhang, Dishu Yuan, Siyu Zhang
09:45-10:00	Title: Engineering Design and Educational Application of Maijishan and Dunhuang Grottoes Restoration Blind Boxes Author: Feng Wang
10:00-10:15	Title: Infrastructure Coupling Efficiency and Tourism Economic Resilience Author: Wenqian Tao, Xuemei Yang, Kejuan Xu
10:15-10:30	Title: An Innovative Design Framework for the Manchu Cultural Industry Driven by Digital Twin Technology Author: Yuxin Zhao, Nuo Pang, Linlin Ge
10:30-10:45	Title: Marine Cultural and Creative Product Design Based on Sensibility Engineering Author: Nuo Pang, Juntong Hou, Linlin Ge
10:45-11:00	Title: The Essence and Rising Roots of China Rural Tourism Live Streaming Business Model Author: Wen Huang, Shengjin Wang, Yansong Li, Sijing Feng
11:00-11:15	Title: Bionic Lamp Design for Integrated Emotional Experience Based on PUGH Decision Matrix Author: Nuo Pang, Linlin Ge, Juntong Hou
11:15-11:30	Title: Tourist-Tourist Interaction in Experience Co-creation by Chinese Outbound Tourists: the Role of Cultural Operant Resources Author: Xing Han, Carolus L. C. Praet, Liyong Wang
11:30-11:45	Title: Influencing Factors of Museum User Service Quality Driven by Large Language Models Author: Hongkun Zhou, Cuifen Yang, and Yuan Ni
11:45-12:00	Title: The Idea of Electroencephalogram-Based Situational Interest Monitoring in Cultural Tourism Short Videos Author: Yuqing Qiu, Xiaoyong Lu, Jiahao Yu, Dianli Yu

Parallel Session II

Time: Monday, September 22, 8:30 – 12:00

Venue: Xiaoyuan Hall, Dunhuang Resort, Dunhuang City, Gansu Province

Chair: Yanzheng Tuo (Nankai University) Secretary: Ruixue Niu	
08:30-08:45	Title: Will the Virtual Reality Technology Induce or reduce Tourists' On-site Visit Intention? Author: Xiaoge Zhou, Junjie Gan
08:45-09:00	Title: Research on Sound Field Directivity Controllable System of Loudspeaker Array Based on ZYNQ7000 Author: Hui Ren, Xinyu Deng, Yuxin Liu, Haiya He, Zhen Li
09:00-09:15	Title: Digital Image Restoration Technology Driven Innovative Development of Longnan Horse Spoon Facial Mask Images Author: Fengru Sun, Zihao Xin
09:15-09:30	Title: International Dissemination of Gansu Traditional Chinese Medicine Culture in the Digital Era: Opportunities, Challenges and Responses Author: Bingdong Liu
09:30-09:45	Title: In-Generation Watermarking for Latent Diffusion Models: A Perceptual Guidance Mechanism via Texture and JND Author: Yihan Wang, Xinting Wu, Ying Huang, Jie Liu, Zhi Zeng, Shuwu Zhang
09:45-10:00	Title: A Method for Extracting Timbre Perception Features for Emotion Prediction in Film and Television Music Author: Zhaofeng Wang, Zhibin Su, Xiaomeng Ren, Qingchen Nie, Jingyu Liu
10:00-10:15	Title: Bringing Fairy Tales to Life: The Enchanting Power of Virtual Influencers in Cultural Heritage Promotion Author: Yanzheng Tuo, Zhibin, Jingke Zhao, and Ye Chen
10:15-10:30	Title: Subjective Perception and Objective Evaluation of Speech Naturalness for Deepfake Detection Author: Siyu Zhang, Liujiachao Peng, Lingyun Xie, Zhijun Zhao
10:30-10:45	Title: Exploring the Influencing Factors of Ecotourism Satisfaction in Xinglong Mountain Nature Reserve Author: Ruixue Niu, Yufeng Zhang, Liang Ma, Nan Chang
10:45-11:00	Title: The Performance and Application of Han Opera Costumes Empowered by Virtual Simulation Technology Author: Ning He, Yichao Zhou, Mengna Guo, Man Guo
11:00-11:15	Title: A Two-Stage Disruptive Technology Identification Framework Based on Knowledge Graph Author: Yuchen Wu, Hao Qin, Shutong Liu, Yunhe Yang, Yanming Chen, Qiuqi Xie
11:15-11:30	Title: Design of Children's Building Block Products with Local Characteristics Based on Digital Twin Technology Author: Juntong Hou, Nuo Pang, Linlin Ge
11:30-11:45	Title: Evaluation and Application of Tourism Performing Arts Service Value under the Network Platform Environment Author: Yuxiang Chen, Yuan Ni, Peng Zhou, Lei Xu
11:45-12:00	Title: A Study of IGC Creation Based on Algorithmic Imaginary on Rednote Author: Weisu Li

Parallel Session III

Time: Monday, September 22, 8:30 – 12:00

Venue: Xiaogu Hall, Dunhuang Resort, Dunhuang City, Gansu Province

Chair: Xuemei Yang (Lanzhou University of Arts and Science) Secretary: Jing Li	
08:30-08:45	Title: Mobile SNS Dependence and Interpersonal Distress Among College Students: The Mediating Role of Core Self-Evaluation Author: Jiahao Yu, Xiaoyong Lu, Dianli Yu,
08:45-09:00	Title: HRTF Reconstruction and Evaluation Based on KPCA Author: Zhaoxin Chi, Na Qi
09:00-09:15	Title: The Moderating Role of Attribution Style in the Impact of Unfair Situations on Malicious Creativity Author: Dianli Yu, Xiaoyong Lu, Jiahao Yu
09:15-09:30	Title: Interactive Mechanisms Between Path-Based Agency and Narrative Orchestration in Digital Heritage Author: Bowen Guan
09:30-09:45	Title: Contextualizing KOL Competencies in Tourism Marketing: A Source Credibility Perspective on Product-Type Moderation Effects Author: Jingbo Zhou, Kejun Wu, Aoxue Xing, Ainong Cui
09:45-10:00	Title: The Practice Progress and Research Content of Foreign Tourism Safety Risk in Recent 30 Years Author: Lihui Su, Aoxue Xing, Jingbo Zhou, Kejun Wu, Gang Wei
10:00-10:15	Title: Paradigm Transformation and Multidimensional Construction Mechanisms of Narrative in Lingnan Traditional Villages Author: Chenglong Tang
10:15-10:30	Title: Integrated Multi-Software 3D Surveying and Mapping Methodology for Cave Temples: A Case Study of Mogao Grotto No. 320 Author: Lipeng Xu
10:30-10:45	Title: Audio-Video Dual-modality Robust Watermarking Author: Guangyi Pan, Mengxin Song, Ying Huang, Jie Liu, Guixuan Zhang, Shuwu Zhang
10:45-11:00	Title: Ecological Carbon Sink and Economic Valuation for Binggou River Scenic Area Author: Xuemei Yang, Weibao Sun
11:00-11:15	Title: Optimal Design of Virtual Exhibition Environment of Cultural Relics Museum Based on Multimodal Interaction Author: Linlin Ge, Nuo Pang
11:15-11:30	Title: The Impact of Privacy Sensitivity on AI Recommendation Adoption Among College Students Author: Lingyun Jia, Yang Lu, Zihao Wang, Jianfeng Liu
11:30-11:45	Title: The Linguistic Style of Social Robots in the Intelligent Era: A Case Study of “Comment Robert” on Weibo Author: Linfang Qiu, Linfang Qiu

Parallel Session IV (Online)

Time: Monday, September 22, 8:30 AM – 12:00 AM

Venue: Tencent Meeting (Meeting ID: 722-870-001)

Secretary: Xidong Chen	
08:30-08:45	Title: A Carbon Emission Reduction Enhancement Framework for Tourism Routes Based on Time Window Optimization Author: Po-Cheng Chen, Xing Chen, Hong-Xi Shen, Chi-Hui Huang
08:45-09:00	Title: A Short-Term Passenger Flow Forecasting Algorithm for Airports Based on Improved Back Propagation Neural Network Author: Jie Zhou, Yilun Zhang
09:00-09:15	Title: Optimization of a Smart Campus System Based on Data Visualization Concepts Author: Yuanhao Liu, Xinran Ba, Mingyuan Zhang
09:15-09:30	Title: Evaluation and Application of Tourism Performing Arts Service Value under the Network Platform Environment Author: Yuxiang Chen, Yuan Ni, Peng Zhou, Lei Xu
09:30-09:45	Title: An Automatic Balancing Method for Stage Lifting Devices Based on Microcontrollers Author: Jirui Ding, Yue Dong
09:45-10:00	Title: Evaluation of the Effect of Spatial Audio Perception in 360-Degree Videos on Presence Author: Ke Li, Suhe Ji
10:00-10:15	Title: Manufacturing Techniques and Sustainability Strategies of Xinjiang Mulberry-Bark Paper Author: Fangyuan Wang, Shukun Tang
10:15-10:30	Title: TRT-HMR: A Monocular Temporal Real Time Human Mesh Recovery Method Author: Zhikai Zhao, Haibo Zheng, Zhi Zeng, Guixuan Zhang, Shuwu Zhang
10:30-10:45	Title: A Low-Light Adaptive Framework for 3D Reconstruction of Indoor Cultural Heritage Author: Shanzhen Lan, Jiaying Liu, Meiru Zhang, Jian Jiang
10:45-11:00	Title: Diffusion Dynamics of ICH in the Short Video Era: A Dual-Perspective Analysis of Technological Drivers and Cultural Ecology Author: Yujie Zhao, Yige Gao
11:00-11:15	Title: Experience Design of Children's Red Museum Based on Flow Theory Author: Li Li, Zhihan Zhong, Yuanyuan Li
11:15-11:30	Title: Innovation Paths of Performing Arts Space Design Driven by Digital Intelligence Technology Author: Wei Miao, Bowen Sun, Xiaoling Wu
11:30-11:45	Title: Mask Detection for Smart Tourism: Enhancing YOLOv5s with CBAM to Improve Public Safety in Tourist Attractions Author: Shun Luo, Caihong Li, Zhiwen Chen, Yi Yang, Xiangquan Gui
11:45-12:00	Title: Tianjin Bridge Cultural Tourism Integration Model from the Perspective of Digital Intelligence Drive Author: Jiayi Zhao, Yushuai Yang, Beibei Hu, Ning Zhao, Huike Du, Xiaopeng Wei, Haitao Wang

Parallel Session V (Online)

Time: Monday, September 22, 8:30 AM – 11:10 AM

Venue: Tencent Meeting (Meeting ID: 515-494-218)

Chair: Xia Dong (Lanzhou University of Arts and Science)		Secretary: Yalong Zhang
08:30-08:45	Title: From Heritage to Sustainability: Connecting Chemistry, Technology, and Cultural Tourism to Nurture Thinking Skills Author: Corrienna Abdul Talib	
08:45-09:00	Title: Short Video Recognition of Intangible Cultural Heritage Using Convolutional Neural Network Author: Yating Hu	
09:00-09:15	Title: TS-WTAL: A Two-Stage Framework for Weakly Supervised Temporal Action Localization Author: Shanzhen Lan, Shujun Wang, Wanting Wei, Yang Wang	
09:15-09:30	Title: Research on Fraud Case Analysis Technology Based on Multimodal Data and Knowledge Graph Author: Xiujuan Bai, Ying Miao, ZhongYan Du, Yan Li , and Yuqing Zhou	
09:30-09:45	Title: Product Color Matching Design Method Based on Image Generative Large Model Author: Fan Wu, Peng Lu	
09:45-10:00	Title: Research on Generative Design of Multiple Types of Public Building Rendering Based on Stable Diffusion Author: Yilu Gong, Zhi Li, HaiTao Zhou, Fan Wu, Tianbo Zhu	
10:00-10:15	Title: Workflow Optimization of Landscape Design Based on Generative Artificial Intelligence Author: Yilu Gong , Tianbo Zhu , Yu Li , Fan Wu	
10:15-10:30	Title: Evaluation of Spatial Effects Rendering of the Built Environment Based on Stable Diffusion Large Models Author: Yilu Gong, Yu Zhang, Yu Li, Tianbo Zhu, Fan Wu	
10:30-10:45	Title: Comparative Analysis of Generative AI Models for Keyword Extraction: A Case Study of Management Papers Author: Linna Hou, Hongjie Bao, and Jiaxin Zhao	
10:45-11:00	Title: CAGR: A Dual-View Collaborative Attention Framework with Graph Neural Networks for Recommendation Systems Author: Ziheng Yue, Feng Jin, Yun Wang, Guigang Zhang, Yuanyuan Zhou, Hao Wang	
11:00-11:15	Title: A Music Assistant Based on the Music Generative Model and the Large Language Model Author: Yixin Zhao, Tianzi Chai, Jingjie He, Siteng Wang, Qiaochu Liu, Shichao Gai, Hanyun Li, Chao Yan	
11:15-11:30	Title: Integration of Real Estate Control Measurements and GNSS Technology Applications Author: Chuhan Ao, Linfang Qiu, Junjie Li	
11:30-11:45	Title: Multilingual Social Media Sentiment Analysis Via Fine-Tuned LLMs Author: Jiaxing Xie, Yuxuan Li, Qingmiao Jiang	
11:45-12:00	Title: Blockchain-Powered Ticketing Ecosystem: A Scalable Framework for China's Performance Market Author: Ming Ma, Zhuoling Xie	

Parallel Session VI (Online)

Time: Monday, September 22, 8:30 AM – 11: 20 AM

Venue: Tencent Meeting (Meeting ID: 750-528-593)

Chair: Yujuan Xing (Lanzhou University of Arts and Science)	
08:30-08:45	Title: Remote International Exchange in Mathematics Education: Evaluating the Educational Impact of Real-Time Translation Technology Using Zoom Author: Hidemichi Okamoto, Kyomi Takuma, Thomas Borys, Tetsushi Kawasaki
08:45-09:00	Title: Creative Product Modeling and Design to Revitalize the Inheritance of Intangible Cultural Heritage Author: Yixin Shao, Fangze Cui, Ruiqi Xiong, Yutong Guo, Xinwang Zhao, Ziyue Cheng, Yingyue Xia, Luyao Guan, Chen Liang, Long He
09:00-09:15	Title: Designing a Technological Framework for Cultural Internal Circulation under Global Trade Barriers Author: Long He, Fangze Cui, Ruiqi Xiong, Yutong Guo, Ziyue Cheng, Chen Liang, Yingyue Xia, Luyao Guan, Xinwang Zhao, Yixin Shao, Kaiqiang Sun
09:15-09:30	Title: Seeing Through the Senses: Visual Perspective and Sensory Cues in User-Generated Short Travel Videos Author: Chao Jin, Xiaoting Huang, Zhihui Wang
09:30-09:45	Title: Analysis of Brand Image Communication in Historical and cultural neighborhoods from the Perspective of Place Attachment Author: Haifeng Chu, Ziqi Mi
09:45-10:00	Title: Shell Carving Jewelry Design Based on Morphological Analysis and AHP Author: Jiahui Lv, Fei Fei, Fan Wu
10:00-10:15	Title: Inbound Tourist Perception at Mogao Grottoes A UGC: Semantic Network Analysis Author: Jiatian Zhang, Duoxun Ba, Ruijuan Wang
10:15-10:30	Title: Analysis of the Influencing Factors of New Media Technology on the Dissemination of Health Information Author: Qiao Zheng, Caiwen Zhao
10:30-10:45	Title: Emotion-Driven Innovative Design of Mobility Aids for Elderly in Rural Areas Author: Xinhao Wang, Fei Fei, Fan Wu
10:45-11:00	Title: Digital Practice of Esports Venue Design in the Context of Hybrid Place-making Author: Xiao Gong, Wenjing Lu, Qian Chen
11:00-11:15	Title: Algorithm Domestication and Identity Construction: Analysis of Self-Presentation of Chinese Amateur Dancer on Social Media Author: Yige Gao, Yi Yu
11:15-11:30	Title: Analysis of the impact of college students' traditional culture identity based on on the media digital landscape of festivals performance programs Author: Yige Gao, Yujie Zhao
11:30-11:45	Title: The Application of AI in E-commerce: The Influence of Virtual Live Streamers on Consumers' Purchase Intention Author: Wei Yang, Jie Zhang, Xiaoting Huang
11:45-12:00	Title: The Impact of Digital Reconstruction of Shanxi Scenes in Black Myth: Wukong on Players' Travel Intentions Author: Yi Yu, Huan Zhang