## The 5<sup>th</sup> International Conference on Culture-oriented Science & Technology, 2024

## Conference Schedule

Time: 2024.8.25—8.28

Venue: Academic Center, Building 2, Communication University of China

(CUC)

No.1 Dingfuzhuang East Street, Chaoyang District, Beijing, China

Date	Arrange
8.25	Registration Time: 14:00—18:00 Venue: Academic Center, Building 2, Communication University of China
8.26	Plenary session Time: 9:00—12:00 Venue: Academic Center, Building 2, Communication University of China 1. Opening Ceremony; 2. Photography; 3. Keynote Speech Parallel Sessions Time: 13:30—17:30 Venue: Academic Center, Building 2, Communication University of China
8.27	Parallel Sessions Time: 9:00—12:30 Venue: Academic Center, Building 2, Communication University of China Discussion and communication
8.28	Academic investigation

Time: 9:00-12:00, August 26

## **Venue: Academic Center, Building 2, Communication University of China**

9:00-9:10	Opening
9:10-9:40	Speech by the President of the Conference
9:40-10:00	Photography
10:00-10:30	Keynote Speech 1 Title: Technology enables large-scale deacidification protection and inheritance of paper documents Speaker: Jinping Zhang, Nanjing Museum
10:30-11:00	Keynote Speech 2 Title: Two Case Studies on AI+VR Technology for Chinese Traditional Culture Dissemination Speaker: Yong-Jin Liu, Tsinghua University
11:00-11:30	Keynote Speech 3 Title: Key technologies and applications of image and video quality enhancement and evaluation Speaker: Huiyuan Fu, Beijing University of Posts and Telecommunications
11:30-12:00	Keynote Speech 4 Title: To be confirmed Speaker: Cheng Jin, Fudan University

Time: 13:30-17:30, August 26

Venue: Room V08, Academic Center, Building 2, CUC

	Parallel Session 1	
13:30-13:45	Title: Dissemination of Intangible Cultural Heritage Based on Digital Twin Technology Authors: Yu Wen, Kexin Xu	
13:45-14:00	<b>Title</b> : A Camera Robot Pose Converter Based on Embedded System <b>Authors</b> :Jingjie He, Pu Wang, Jing Mi	
14:00-14:15	Title: Dunhuang murals image inpainting method based on fusion classification pre-training model  Authors: Hui Ren, Chengya Zhang, Ke Sun, Chenyu Ye	
14:15-14:30	Title: Evaluation of Service Capability of Cultural Product Property Rights Trading Platform in the Context of Blockchain Authors:Xin Wu, Cuifen Yang, Yuan Ni	
14:30-14:45	Title: Analysis of education reform in Indonesia based on qualitative methods for a digital sustainable society  Authors: Khodir Muhammad, Zhe Li	
14:45-15:00	Title: The Application of VR/AR Technology in Enhancing the Emotional Experiences of College Students in ACG Exhibition Tourism Authors: Yige Gao, Yi Yu	
15:00-15:15	Title: Pattern-based Stylization Method for QR Codes Authors:Ruihan Lei, Yu Yang	
15:15-15:30	Title: Research on the Identification and Management of User Risk Perception Dimensions in Blockchain Technology-based Cultural Product Rights Confirmation Services Authors: Jinhe Pan, Cuifen Yang, Yuan Ni	
15:30-15:45	Title: Design and Implementation of Blockchain-based Image Copyright Confirmation System Authors: Minglu Xu, Fang Meng	
15:45-16:00	Title: Human Reliability Analysis of Professional Theater Based on CREAM Authors: Huiqin Wang, Huiqi Wang, Hui Ren	
16:00-16:15	Title: Fault Prediction Method of Stage Lifts Based on Digital Twin Authors: Huiqin Wang, Chunxi Zhang, Zhen Li, Mengjiao Xiao	
16:15-16:30	Title: Source Separation of Piano Concertos Using Hybrid LSTM- Transformer Model Authors: JingYu Liu, Wei He, Jingjing Zhou, Wei Jiang	
16:30-16:45	Title: An Acoustic Dataset Construction Method of Chinese National Musical Instrument Guqin Authors: Jingyu Liu, Chen Yang, Zijin Li, Wei Jiang	
16:45-17:00	Title: Deep Learning Based Public Opinion Analysis of Game Communication Authors: Jinbao Song, Da Chen, Chuanyu Xiang	
17:00-17:15	Title: New forms of encryption art creation and reception in the context of virtual digital from the perspective of metauniverse Authors: Tianyi Fan	

Time: 13:30-17:30, August 26

**Venue: Room V06, Academic Center, Building 2, CUC** 

Parallel Session 2	
13:30-13:45	Title: Association Between Timbre Perception Features and Fine-Grained Emotions in Film and Television Music Authors: Xiaomeng Ren, Zhibin Su, Wei Jiang, Jingyu Liu
13:45-14:00	Title: Research on Comfort Perception and Evaluation of Immersive Experience Equipment in Cultural Tourism Authors: Huibo Hu, Zhibin Su, Yujian Jiang, Lingxi Qu
14:00-14:15	Title: Explore the application of oil paper umbrella elements in smart lighting fixtures  Authors: Yuyan Li, Juan Qiao, Wenwen Ning, Xiaonan Guo, Yuhe Yi, Lei Zhang
14:15-14:30	Title: The analysis on speaker timbre perception and acoustic parameters under whispered speech  Authors: Yali Liu, Liujiahao Peng, Jingying Zhang, Zhijun Zhao, Yujun Wang
14:30-14:45	Title: AIGC-assisted geospatial generative design for classical Chinese literary works  Authors: Peipeng Ma, Jinhua Dou, Jiayi Jia, Xinrong Ma
14:45-15:00	Title: A study on analyzing the differences in the characteristics of user comments on cultural short video platforms  Authors: Nuan Luo, Qian Cao, Jian Zhang
15:00-15:15	Title: Design of comprehensive evaluation model for pre-service teachers' Five-dimensional education based on machine learning Authors: Dan Sun, Xiaoyong Lu, Yimin He, Yuqing Qiu
15:15-15:30	Title: Multipath planning based on multimodal optimization slime mold algorithm  Authors: Luli Gao, Hui Ren
15:30-15:45	Title: Artistic reconstruction of images and videos using multiple elements based on optimization algorithms Authors: Chengcheng Zheng, Boqin Ma
15:45-16:00	Title: Innovation within tradition: Exploring digital interventions in transmitting traditional lantern making  Authors: Yuxiang Fan, Wanlin Zhang
16:00-16:15	Title: Traditional Pattern Segmentation Algorithm Based on Semantic Prediction and Region Learning Authors: Xiaogang Hou, Haiying Zhao, Xiangbing Zhou, etc.
16:15-16:30	<b>Title</b> : The Impact of Multisensory Experience with Hotel Images on Sales <b>Authors</b> : Haoqiang Sun, Haozhe Xu, Shaolong Sun, etc.
16:30-16:45	Title: A Cross-Domain Latent Topic Model for Item Tagging and Recommendation Systems Authors: Rui Tang, Cheng Yang
16:45-17:00	Title: Analysis of Influence Degree of Fear Based on Different Musical Characteristics Authors: Muzi Li, Zheng Long Lee, Yee Shan Kua, etc.
17:00-17:15	Title: A novel multifunctional industrial product design scheme using modular design  Authors: Nuo Pang, Mustaffa Halabi Azahari, Lili Chen, Zhenqi Li

Time: 13:30-17:30, August 26, Venue: Room V04, Academic Center, Building 2, CUC Tencent Meeting: 476-443-361

	Parallel Session 3	
13:30-13:45	Title: An analysis of factors influencing the language style of CCTV Spring Festival Gala hosts Authors: Yujie Zhao	
13:45-14:00	Title: Content Analysis of the Self-Presentation of Silver Influencers on Douyin Platform Authors:Linfang Qiu, Xin Wang	
14:00-14:15	Title: Research on the Application of Anti-tampering Technology in Digital Cultural Communication Authors: Xiaolong Mo, Huabiao Li, Ruiwei Meng	
14:15-14:30	Title: Experiment Design for Investigating the Effectiveness of Accelerated Video Learning Based on Brain Imaging Evidence Authors: Yuqing Qiu, Xiaoyong Lu, Dan Sun, Yimin He	
14:30-14:45	Title: A Novel Multi-modal Recommender with Modality-Specific Graph Refining Strategy Authors: Peng Yi, Zhaoxian Li, Lu Chen, Yunfei Liang, etc.	
14:45-15:00	Title: An End-to-end Audiovisual Program Translation System for Multiple Languages  Authors: Yue Zhu, Yonghua Li, Zhongle Wu, Ruoyan Jing, Hongyuan Zhang, Kaichao Zhan, Mingyue Yu	
15:00-15:15	Title: Exploration of Trusted Sharing Mode and Technical Practice of Digital Cultural Resources in Museums  Authors: Linxian Hao, Huabiao Li, Qianwei Huang	
15:15-15:30	Title: Visual analysis of creativity of university students' entrepreneurial team based on leadership style  Authors: Lian Chen, Jingwen Wang	
15:30-15:45	<b>Title</b> : A Singing Formant Extraction Method Based on Peak Fitting <b>Authors</b> : Jingyu Liu, Jiawei Wu, Wei Jiang	
15:45-16:00	Title: A generative approach to image generation of Yao Long Drums based on Cultural Gene analysis  Authors: Ming Xu, ZhiSheng Xin, YiChun Tan	
16:00-16:15	Title: A Chinese Font Generation Method based on Dynamic Convolution Improved Generative Adversarial Network Authors: Xuefei Guo, Li Zhao, Xiaojun Wu, Honghong Yang, etc.	
16:15-16:30	Title: Study on Public Participation in Urban Water Environment Treatment Service System Design Authors: Jifeng Xu, Mengyao Xiao, Tian Fang	
16:30-16:45	Title: Optimization and application of reverberation sampling scheme in music recording Authors: Penghao Ren, Yilong Zhang	
16:45-17:00	Title: Innovative Research and Application of Minnan Concrete Bricks Patterns Based on Image Processing Authors: Min Wang, Ziyue Xiao, Xinran Liu	
17:00-17:15	Title: A novel design scheme of small intelligent fire extinguisher based on unconscious design method Authors: Boran Zhang, Jing Cao	

Time: 9:00-12:30, August 27, Tencent Meeting: 438-862-042

Parallel Session 4	
9:00-9:15	Title: Integration of game flow and UE4 engine to improve immersive experiences in FPS E-sports game  Authors: Guanchu Xu, Wenjing Lu, Xueru Zhang
9:15-9:30	Title: Application of Quality Function Deployment and Function-Behavior-Structure Model in the Innovative Design of Hospital Guide Robot  Authors: Yixiao Guo, Jifeng Xu
9:30-9:45	Title: Evaluation Experiment on the Listening Experience of Classical Music with Varying Reverberation: A Case Study of Piano Music Authors: Nan Gao, Yuejia Luo
9:45-10:00	Title: Analysis of the Correlation between Venue Display and Tourists' Place Attachment in Revolutionary Tourist Attractions Authors: Yi Yu, Huan Zhang
10:00-10:15	Title: Detection and System Implementation of Abnormal Audio Events in Urban Environments Based on Convolutional Neural Networks Authors: Shutong Xiao, Ling Lei
10:15-10:30	Title: A Framework for Image Text Retrieval Based on Large Language Model Authors: Jianwen Liao, Yangchen Wang, Yingyun Yang
10:30-10:45	Title: Design of Fire Alarm Devices for Wooden-Structured Ancient Buildings Based on Service Design Authors: Shuofeng Liu, Yuanyang Tu, Hongyan Wu, Lei Xue
10:45-11:00	Title: Vitality Evaluation and Enhancement Strategies of Wuzhou Historical and Cultural Districts Based on Semantic Differential Method Authors: Haifeng Chu, Xiang Shi, Jing Tang
11:00-11:15	Title: Implementation of social media analysis system based on database technology  Authors: Xiaoyue Wang, Xinran Ba
11:15-11:30	Title: Development Strategies for Integrating Rural Culture and Tourism in Liaoning Province: A Three Integration and Five Systems Approach Authors: Lin Lin, Xinyu Zhao, Zhongzheng Lyu
11:30-11:45	Title: Analysis and Application of Yi Embroidery Color Characteristics Based on K-Means Clustering Authors: Xinjia Wang, Wei Zhou, Jifeng Xu
11:45-12:00	Title: TFSWA-UNet: Temporal-Frequency and Shifted Window Attention Based UNet For Music Source Separation Authors: Zhenyu Yao, Yuping Su, Honghong Yang, Xiaojun Wu, Yumei Zhang
12:00-12:15	Title: A Scoping Review Focusing on the Competencies Developed by Head-Mounted Display Virtual Reality in School Education  Authors: Hidemichi Okamoto, Tetsushi Kawasaki, Mutfried Hartmann, Frank Thissen
12:15-12:30	Title: Design and performance analysis of soft manipulator based on fast Pneumatic network technology  Authors: Linlin Ge

Time: 9:00-12:30, August 27
Tencent Meeting: 974-326-792

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	Parallel Session 5	
9:00-9:15	Title: Analysis of Tourist Consumption Behavior in "Social Media Hotspot" Cities Based on User-Generated Content: A Case Study of Xi'an Authors: Cai Wen Zhao, Huan Zhang	
9:15-9:30	Title: Improved Design of SOR Model Based on Virtual Tourism User- generated Content and Destination Attachment Authors: Bowen Guan	
9:30-9:45	Title: RR-WebRTC: Efficient Real-Time Communications With Fast Loss Recovery For WebRTC Authors: Dongcheng Luo, Yuan Zhang, Jinyao Yan	
9:45-10:00	Title: Design of Early Childhood Education Mobile Social Applications Based on the KJ-Kano Model Authors: Juan Li, Jiayue Liu, Jiaxuan Zhang, Leyi Hong, Qi Tian	
10:00-10:15	Title: Research On Destination Tourism Data Based on CNN-BiLSTM and STL-LSTM Methods for Data Continuity Problem  Authors: Zhengguang Lei, Wenqing Zhao, Caihong Li, Yi Yang, Xingbao Wei	
10:15-10:30	Title: Design of a Computing Power Token Trading Platform for Government Applications Authors: Ziyu Jiang	
10:30-10:45	Title: The Impact of Platform Varieties on Emoji Usage: Based on Mixed Research Methods  Authors: Xingyue Bai, Liqun Liu, Wei Lv	
10:45-11:00	Title: Influencing factors of native advertising avoidance based on interactive media  Authors: Ziyu Mao, Liqun Liu, Zhixiang Fang	
11:00-11:15	Title: Media synergy and emotional effects: an analysis of blockchain technology communication in China Authors: Cunqi Han, Liqun Liu, Guowei Li	
11:15-11:30	Title: A novel design method of Tujia brocade patterns under semantics of expandability Authors: Xinyi Cheng, Yue Mi	
11:30-11:45	Title: Analysis of VOT Acoustic Parameters of Stops and Affricates in Mandarin for Adolescents Authors: Jing An, Chao Gao	
11:45-12:00	Title: Compressing DNN-based Image/Video Watermarking Models for Resource-Constrained Devices  Authors: Jianlin Li, Guanhui Ye, Yuchen Wang, Shiyao Zhang, Xuetao Wei	
12:00-12:15	<b>Title</b> : CDFD: A Novel Cross-modal Dynamic Fusion and Self-distillation Approach in Fake News Detection <b>Authors</b> : Liu Weidong, Wu Peng, Qin Beibei	
12:15-12:30	Title: Intelligent product design methods and typical applications simulating animal ecology Authors: Yongmin Wang, Nuo Pang	

Time: 9:00-12:30, August 27
Tencent Meeting: 885-625-110

Parallel Session 6	
9:00-9:15	Title: Exploratory practice in digital theatre: definitions, classifications, production logic, and challenges  Authors: Ming Ma, Yuping Kang, Yajiao Cai
9:15-9:30	Title: Residential Space Design for the Multi-Generation Cohabitation Based on Environment-Behavior Studies Authors: Xinchang Ouyang, Jifeng Xu
9:30-9:45	Title: LLM-based user requirement analysis and intelligent Q&A toward Chang'an Twelve Hours Authors: Fuqing Hou, Yibing Chen, Xin Shi, Min Li, Xueqing Zhao
9:45-10:00	Title: Piano Concerto Source Separation Based on Speech Separation and Channel Attention Authors: Jingyu Liu, Jingjing Zhou, Xinyan He, Wei He
10:00-10:15	Title: The News Delivery Channel Recommendation Based on Granular Neural Network Authors: Xiujun Bai, Ying Miao, Lin Wu, Yuhao Long
10:15-10:30	Title: The construction of the museum audience data system based on big data technology  Authors: Menglong Chang
10:30-10:45	<b>Title</b> : Research on Named Entity Recognition for Oral History Text <b>Authors</b> : Chaoyu Hu, Shilei Bai, Mengfei Zhang
10:45-11:00	Title: Architectural Color Image Scale Computing of Beijing Forbidden City Authors: Bowen Liu, Wenli Huang, Xiumeng Yu, Zongliu Ma, Ziyi Guo, Shuang Wang, Wei Jiang
11:00-11:15	Title: Semantic Analysis and Modeling of the Color of Stage Costume – A Case Study of "The Painting Journey" Authors: Wenli Huang, Bowen Liu, Fang Sun, Shuang Wang
11:15-11:30	Title: Research On Tourist Destination Passenger Flow Prediction Based On Decomposition Clustering Technology For Data Continuity Problem Authors: Lianze Feng, Lin Mu, Yi Yang, Caihong Li
11:30-11:45	Title: A Social Network Analysis of Musician Co-creation on Digital Platform Authors: Manlin Wang, Ting Jiang
11:45-12:00	Title: Self-presentation of Housewives in Social Media: A Case Study of Tik Tok Authors: Wei Lv, Zihao Wang, Desheng Lan
12:00-12:15	Title: Innovative application of intangible cultural heritage elements of shadow play in digital field design Authors: Jing Cao