

Oral Paper Presentation I :

Session Oral 1: Advanced Research in Digital Content, Virtual Influencers, and AI-Driven Cultural Systems

chair Prof. Bonghwan Kim

Paper ID	Title	Authors (Affiliation)	
1610	The Influence of Soviet Constructivism on Modern Chinese Design	Jiawei, Yin (Dongseo University)	Online
1607	Exploring Artistic Possibilities of L-systems in 3D Fractal Art	Sun Yijing, Jia Ni Zhou (Dongseo University)	Online
1635	Machinanity in Motion: How Virtual Influencers Construct and Convey Cultural Meaning	Hoai Lan Duong, Thi Kim Cuc Tran (Swinburne Vietnam, FPT University)	
1622	A Systematic Review AI-Driven Cultural Tourism Experiences in Vietnam: The case of Vietnam	Sean Watts, Thi Kim Oanh Vo, Paul Allen Benavides, Quang Dang, My An Truong, Tung Tran Minh (FPT University Vietnam), Quynh Tran Ly (Da Nang University), David Saiia (Duy Tan University)	

Session Oral 2: AI Ethics, Educational Technologies, and Computational Media Literacy

chair Prof. Le Ahn Ngoc

Paper ID	Title	Authors (Affiliation)	
1606	Optimizing Coast Wave Simulations in Houdini:Realism and Efficiency	Shuqi Ye, Jiani Zhou (Dongseo University)	Online
1605	Hero Across Media	Alexandra Komuntale, Dohoon Kim (Dongseo University)	Online
1621	Building AI Literacy for the Digital Era: A Systematic Review of Educational Applications with Evidence from Vietnam	Sean Watts, Thi Kim Oanh Vo, Paul Allen Benavides, Quang Dang, Tung Tran Minh, Phan Anh Thu Ho, Dinh Minh Tri Huynh (FPT University Vietnam), Quynh Tran Ly (Da Nang University), David Saiia (Duy Tan University)	
1620	The Ethical Theory that Changed the World can inspire Better Questions for Artificial Intelligence.	David Saiia (Duy Tan University)	

Session Oral 3: Immersive Learning Systems and Human-Computer Interaction in Healthcare and Animation

chair Prof. Rattasit Sukhahuta

Paper ID	Title	Authors (Affiliation)	
1604	Between Vision and Reality: A comparative Study of Film Funding and Artistic Freedom in Slovenia and South Korea	Anja Paternoster, Dohoon Kim, Sojin Kim (Dongseo University)	Online
1601	Integrating Eye-Tracking Technology to Enhance Interactive Animation: Bridging Storytelling and Audience Engagement	Elisa Adriana, Balgum Song (Dongseo University)	Online
1616	Immersive Piano Learning through Virtual Reality and Cloud Integration	Tanapon Thaiyanusorn, Phattanan Eksakulpaiboon, Tanaboon Tongbuasirilai (Kasetsart University)	
1609	A Patient-Centric Prototype for Malaysia Healthcare Appointments	Sze Jie Lee, Yunli Lee (Sunway University)	Online

Oral Paper Presentation II :

Session Oral 4: AI-Enhanced Learning Analytics and Cognitive Technologies in Social Contexts

chair Prof. Yoosoo Oh

Paper ID	Title	Authors (Affiliation)	
1642	Media Consumption of Generation Z: Strategies for Engaging Young Audiences with Cinematic Content	Bodnar Diana, Hongsik Pak (Dongseo University)	Online
1633	Exploring Image-to-3D AI Techniques for Film Previsualization	Hao Ying Wang, Jia Ni Zhou, SungHoon Cho (Dongseo University)	
1667	Web-Based Classroom Engagement Assessment via Facial Motion Tracking	Anh Nguyenn Thuan Bui, Thanh Le, Duong Do, An Nguyen, Ngoc L (Swinburne Vietnam, FPT University), Phuong Anh Nguyen (Université du Québec)	
1666	Face Recognition-Based Classroom Attendance System with Limited Training Data	Quang Dang, An Nguyen, Ngoc Le (Swinburne University of Technology), Phuong Anh Nguyen (Universite' du Que'bec), Tung Vu (Hanoi Architectural University)	
1665	Mobile app for real time plant disease detection: AI enabled service in agriculture	Vijayalakshmi A (Christ University)	Online

Session Oral 5: Computational Media Design and Deep Learning Applications for Image and Music Systems

chair Prof. Somchoke Renguttinun

Paper ID	Title	Authors (Affiliation)	
1632	Design and Implementation of Agentic Retrieval-Augmented Generation Chatbot for Enhancing Korean Grammar Learning Experience	Kim Aleksandr, Fiazinova Anastasiia, Do-Gyu Oh, Sang-Joong Jung (Dongseo University)	
1630	Alienation and Reconstruction of Short Video Commentary: An Analysis of Comedy Film Communication Using Hot Fuzz and Extreme Job as Cases	Jia Yi Wei, Jia Ni Zhou (Dongseo University)	Online
1645	Optimization of Circom Circuit for Zero Knowledge Proof for Multiple Sequence Alignment	Marxel S. Abogado, Geoffrey A. Solano (University of the Philippines Manila), Worasait Suwannik,, Somchoke Ruengittinun (Kasetsart University)	
1664	Music Recommendation System Based on User Preference	Putu Agung Bayupati, Made Hollanda Putri, Yohanes Perdana Putra (Udayana University)	
1662	A Comparative Study on Different State of the Art Deep Learning Architectures on Image Processing	Athulya Chandrasekharan, Deepthi Das (Christ University)	Online

Session Oral 6: Cross-Cultural Media Studies and Intelligent Systems for Social Adaptation

chair Dr. Tanaboon Tongbuasirilai

Paper	Title	Authors (Affiliation)
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ID			
1627	Multidimensional Challenges and Adaptation Mechanisms in the Cross-Cultural Transmission of Comedy Films	Xin Yi Zhang, SungHoon Cho (Dongseo University)	
1626	Invisible Frames - The Absence and Role of South Asian Actors in the Korean Film Industry	Nashley Dsouza, Yoon Gu Hee (Dongseo University)	Online
1661	Evolution of Convolutional Neural Networks: From Foundational Architectures to Modern Hybrid Models	Sneha Salim, Vijayalakshmi A (Christ University)	Online
1659	Kiki: A Digital Companion for Elderly Care and Engagement	Joselyn Chin Shi Min, Yunli Lee (Sunway University)	Online
1656	The Annotation Tool for Table Structure Recognition	Nguyen Van Tang, Bui Hai Dang, Pham Hong Quan (Hanoi Foreign Trade University)	Online

Oral Paper Presentation III

Session Oral 7: Human-AI Interaction, Accessibility, and Multimodal Storytelling Technologies *chair Prof. Pyeoungkee Kim*

Paper ID	Title	Authors (Affiliation)	
1625	A Short Survey on IEEE 802.11 bn Multi AP techniques	Mahnoor Ajmal, Haishan Yang, Kim Chaehyeon (Kyungpook National University)	
1624	Effectiveness of Virtual Imaging Technologies in Climate Documentary Simulations	Yi Man Zhao, Jia Ni Zhou (Dongseo University)	
1619	VISNAR: A Framework Proposal for Narrative-Coherent AI Storyboard Using Cinematic And Emotional Grammer	Aswathy Thoniyil Ravindran, Song Balgum (Dongseo University)	Online
1654	Exploring Self-Paced Puzzle Play Among Seniors in Reminiscence and Classic Group	Yunli Lee, Yook Chin Chia, Jactty Chew, Wei Gene Lim, Zhi Hong Po (Sunway University), Michael John Jenkins University of Nottingham Malaysia)	
1648	A Convergent Music Therapy Platform for Parkinson's Disease: Integrating Medicine, Arts, Technology, and Genomic Precision	Horyong Yoo, Wangjung Hur (Daejeon University), Sarah Pyeon (Evergreen Valley High School), Sajung Yun, Sijung Yun (Johns Hopkins University)	Online

Session Oral 8: Explainable AI and Tech-Craft Integration in Intelligent Design Systems *chair Prof. Hyeyoung Ko*

Paper ID	Title	Authors (Affiliation)	
1618	Explainable AI for Vulnerable Road User Safety: An O-RAN Perspective	Deepak Singh, Sunghyun kim, Dongkyun Kim (Kyungpook National University)	

1615	kpop mv's dreamcore style visual expression	Zhou Zhujun, Yoon Gu Hee (Dongseo University)	Online
1647	A Framework for Tech-Craft Integration: Sadu as Heritage, Algorithm, and Interface	Ahmad AlAttar (REALITY)	Online
1628	Rendering Nature, Telling Stories- High-Fidelity Foliage and Narrative Immersion in The Witcher 4	Qian Yu Ye, Jia Ni Zhou (Dongseo University)	
1679	Split Federated Learning-Based Model Training for Enhanced Object Detection in Vehicular Edge Computing	Treethawat Chokkulthawat (Kasetsart University), Youngjoon Yang, Dongkyun Kim (Kyungpook National University), Jinhong Kim, Yunwon Choi (ETRI)	Online

Session Oral 9: Sustainable Product Design, Ergonomics, and Interactive Game Narratives

chair Prof. Lee Yun Li

Paper ID	Title	Authors (Affiliation)	
1600	From Game Mechanics to Self-Expression: A Study on Player Narratives in 'The Sims 4'	Xiaotong Zhang, Sojin Kim (Dongseo University)	online
1599	User-Centered Design and Ergonomics for Sustainable Primary School Chairs in Malaysia	Wincen Foong Hock Kuen, Dhineshwaran A/L Sivakumar, Nicole Fu Chew Xiang (Sunway University), Muhammad Azidan Zakaria (Forest Research Institute Malaysia)	online
1598	Sustainable Design Strategies to Enhance Energy Efficiency in the Manufacturing of School Chairs	Nicole Fu Chew Xiang, Wincen Foong Hock Kuen (Sunway University), Muhammad Azidan Zakaria (Forest Research Institute Malaysia)	online
1597	CNC Nesting for Efficient and Sustainable School Chairs	Nicole Fu Chew Xiang, Dhineshwaran A/L Sivakumar, Wincen Foong Hock Kuen (Sunway University), Muhammad Azidan Zakaria (Forest Research Institute Malaysia)	online
1678	A Study on Narrative Compression Strategies in Short-Form Dramas	Young-Suk Lee (Dongguk Univ.)	

Oral Paper Presentation IV

Session Oral 10: AI-Based Industrial Monitoring, Learning Systems, and Community Innovation Platforms

chair Prof. Tae-Young Byun

Paper ID	Title	Authors (Affiliation)	
1663	A Study on Real-Time Voltage Drop Monitoring and Analysis of PEM Water Electrolysis Systems	Park Kyung Sup, Lee Juhyun, Lee Sang Moon (Kyungpook National University)	
1660	Synthetic Data-Driven Approaches: for Improving AI Performance in Construction Site Safety Monitoring	Jun-Hyun Park, Yeong-Rok Kim (Kyungpook National University)	
1657	AI-Driven Exhibition Lighting: Light Control with RGB-HSV Fusion ConvNeXt	Hyunbin Kwon, Hyundo Lee, Hak Yi (Kyungpook National University)	
1675	Implementation of AI-based Korean Learning System	Xiaorui Huang (Hebei Tourism College), Chen Yang (Eastern Liaoning University),	

		Pyeongkee Kim (Silla University)	
1674	Designing Community Cultural Learning Experiences through Game Mechanics: Innovation for Enhancing Community-Based Tourism	Watchira Buranasing, Pattama Krataithong, Thepchai Supnithi, Pattaraporn Meeklai (NECTEC)	Online
1680	A Survey of Communication-Based Systems for Vulnerable Road Users Safety	Chaithat Chattranukul (Kasetsart University), Su Kim, Dongkyun Kim (Kyungpook National University), Jinhong Kim, Jangwoon Baek (ETRI)	Online

Session Oral 11: Smart Environmental Management and AI-Driven Knowledge Systems for Regional Development
chair Prof. Joonmin Gil

Paper ID	Title	Authors (Affiliation)	
1653	A Comparative Analysis of Near-Field and Far-Field Beamforming for AUV Detection	Seungyeol Kim, Seokjin Lee (LIG Nex1)	
1652	A Study of Artistry Evaluation and Cognitive Differences Between AI Creations and Human Artworks Using the Turing Test Method	Zixuan Wang, Se-Hwa Kim (Dongseo University)	
1673	Big Data-Driven Decision Support for PM2.5 Air Pollution Management:A Case Study of Chiang Mai, Thailand	Teerawich Wongsa (Rajamangala University of Technology), Supattanawaree Thipcharoen (The Far Eastern University), Duangnapa Sukhahuta (Maejo University) Rattasit Sukhahuta (Chiang Mai University)	
1672	Adoption and Aversion of Marketing Technology in Artisan SMEs: A Multiple Case Study in Northern Thailand	Pagon Gatchalee (Chiang Mai University)	Online
1671	Reinforcement Learning-Based Recommendation System for Optimizing Longan Yield in Northern Thailand	Natdanai Kiewwath, Winai Bangkhomned (Maejo University)	
1637	A Comparative Study of Live-Action and Unreal Engine Virtual Animation Short Film Production	Si Yuan Peng, Jia Ni Zhou (Dongseo University)	

Session Oral 12: Generative Art, Computational Aesthetics, and Intelligent Image Synthesis Frameworks
chair Prof. Subin Jeon

Paper ID	Title	Authors (Affiliation)	
1651	An Analysis of Chronological Presence Pattern Based on Lighting DER for Efficient Energy Management	Nguyen Anh Tuan, Vu Thi Kim Dung, Qazi Waqas Khan, Do Hyeun Kim (Jeju National University) Le Anh Ngoc (Swinburne Vietnam FPT University), Dong-In Lee (Yeungnam University)	
1649	A Study of Artistry Evaluation and Cognitive Differences Between AI Creations and Human Artworks: A Turing Test Approach	Zixuan Wang, Se-Hwa Kim (Dongseo University)	
1643	Analysis of Female Archetype Mapping: MorticianLilith and the Reconstruction of the Fourth Sacred Feminine	Ouyang Xiaoxiao, Yoon Gu Hee (Dongseo University)	Online
1670	Preserving Identity in GAN-Based Facial Image Synthesis Through Latent Factor Separation	Harsha B M, Guydeuk Yeon (Christ University)	Online
1669	Designing a FAIR-Compliant ASEAN GLAM Repository: Governance, Metadata, and Service Pathways	Wirapong Chansanam, Treepidok Ngootip, Kanyarat Kwiecien, Kulthida Tuamsuk	Online

		(Khon Kaen University), Chunqiu Li (Beijing Normal University), Thepchai Supnithi (NECTEC)	
1639	Cultural Rupture and Cinematic Narratives in East Asia: A Comparative Study of Suffering Cinema in the Early 21st Century—Case Analysis of A Touch of Sin, Silenced, and Confessions	Rui Wen Chen, Jia Ni Zhou (Dongseo University)	

Session Poster A: AI Design Thinking & Human–Computer Interaction
chair Prof. Sehyun Park

Paper ID	Title	Authors
1646	Analysis of Energy Consumption Simulation of Edge Devices with DVFS	Tae-Young Byun, Bong Hwan Kim, Han Zhang, Shuming Wang (Daegu Catholic University), Jeongsam Kim (Yeungnam University College), Wol-Young Kim (Solarlight Korea)
1631	A Study on the Lack of Emotional Resonance in AI-Generated Characters in Visual Media: A Case Analysis of Next Stop Paris	Xiao Yu Li (Zhongnan University of Economics and Law), Sung Hoon Cho (Dongseo University)
1612	Developing Spatial Clusters and Design Processes for Student-Centered Learning Spaces in Universitie	Eunjung Kim, KwanSeon Hong (Dongseo University)
1644	NWI.Zip BLOCK: A Tangible, No-Code Platform for Teaching Machine Learning Pipelines	Yoosoo Oh, Kyuman Jeong, Sehyun Park (Daegu University)
1634	Implementation of a Visual Pattern-Based ECG Classification Model for Wearable Device	Ji-Yun Seo, Young Sill Lee, Chang-min Kim (Soonchunhyang University), Byeong-Ho Park (Dongseo University)
1650	AI-based Assisted Reproductive Technology Gestational Sac Prediction and Fertility Self-Assessment Application: Development and Introduction of “DU-Dream-I”	Hyo-Jin Park, Kyuman Jeong, Sehyun Park, Jonghun Lee, Deog-Bon Koo (Daegu University)
1596	Live-Streamed Horror: Aesthetic and Media Mechanism Analysis of Live Footage in Found Footage Horror Films	Li Ma, Hae yoon Kim (Dongseo University)
1668	EV Maintenance Assistant Systems based on LLM Technology	Woosuk Lee, Sang Hyeop Oh, Hoyoung Kwak, Joon-Min Gil (Jeju National University)
1677	A Study on Mechanisms for Enhancing the Effectiveness of Prosocial Game Play	Hyeyoung Ko (Seoul Woman's University)
1639	Cultural Rupture and Cinematic Narratives in East Asia: A Comparative Study of Suffering Cinema in the Early 21st Century—Case Analysis of A Touch of Sin, Silenced, and Confessions	Rui Wen Chen, Jia Ni Zhou (Dongseo University)

Session Poster B: Edge AI and System-Level Innovation
chair Dr. Junyeop Kim

Paper ID	Title	Authors
1655	Integration of Detection, Segmentation and Regression for Robust Fish Monitoring in Aquaculture System	Jaeyoung Kim, Dongseung Shin, Laekyoung Lee (ETRI)
1613	Design and Implementation of a Real-Time Remote Psychological Counseling Platform Using WebRTC	Ji-eun Lee, Jeong-hoon Shin (Daegu Catholic University)
1629	The Visual and Aesthetic Analysis of Large-Scale Water in Film	Jing Ya Wang, Jia Ni Zhou (Dongseo University)
1608	A Study on the Development and Application of Evaluation Indicators for the Regeneration of Waterfront Spaces Based on Placemaking	Qi Xia, Kwanseon Hong (Dongseo University)
1641	Automated Recognition and Post-Correction for Large-Scale Korean Official Documents	Jiazheng Wang, Mei Shang, Pyeoungkee Kim Silla University
1623	CH-GC: A Command History-Driven Garbage Collection System for Kubernetes-Based Education Systems	Ji-won Mun, Dong-manh Seo, Soo-bin Jeon (Daegu Catholic University)
1637	A Comparative Study of Live-Action and Unreal Engine Virtual Animation Short Film Production	Si Yuan Peng, Jia Ni Zhou (Dongseo University)
1602	Research on User Experience-based on Mobile Application (APP) Interface Design	Yi Zhang, Hae-Yoon Kim (Dongseo University)
1603	A Study on the Problems of Family Communication due to Digital Gap between Generations in the Digital Age	You-Chen Yin, Hae-Yoon Kim (Dongseo University)
1636	Dear Pompom: A Gamified Personal Growth Platform with Comprehensive Progress Analytics and Data Persistence	Pham Truong Que An (FPT University, Swinburne)