Joint Event on
Public Health & Nursing, 3D Printing & Optics, And AIML & Robotics

Scientific Program

COGNITION CONFERENCES
INNOVATION AT SCIENTIFIC GATHERINGS

	Scientific Program
	Joint Event on **Public Health & Nursing, 3D Printing & Optics, And AIML & Robotics**
Date/Venue	**May 19-22, 2025 | DoubleTree by Hilton Kyoto Station, Osaka, Japan**
	Day 1 | May 19th, 2025
Timings	**Program Details**
7:00 - 8:00	Registration and Opening Ceremony
	Keynote Forum-1
8:00 - 8:30	**Food Crime and Food Justice: Ultra-Processed Foods and Behavior**
	Matthew Robinson, *Appalachian State University, USA*
8:30 - 9:00	**Strategies for Cost-Effectiveness in Sustainable Quality Healthcare Delivery in Emerging Economies: The Case of Healthcare Professionals Development in South Africa**
	Francis Ikechukwu Igbo, *Walden University, USA*
9:00 - 9:30	**Urgent Need for Smartphone-Based SelfManagement Support Programs for Lung Cancer Patients: A Comprehensive Review**
	Agnes Yuen Kwan Lai, *Metropolitan University, Hong Kong*
	Oral Sessions 1
9:30 - 9:50	**The Environmental Determinants of Mental Health: A Study Using Geographic Ecological Momentary Assessment (GEMA)**
	Mei-Po Kwan, *The Chinese University of Hong Kong, China*
9:50 - 10:10	**Artificial Intelligence and Machine Learning in Healthcare Canada: A peak into the present landscape**
	Sanjukta Basu, *Tulane University, Canada*
10:10 - 10:25	**Morning Coffee Break and Networking**
10:25 - 10:45	**Disparities in healthcare utilization, cancer care experience, and beliefs about cancer among Asian and Hispanic cancer survivors**
	Hee Jun Kim, *The George Washington University, USA*
10:45 - 11:05	**Baseline Concussion Testing in High School Athletes: A Gap Between Policy and Practice**
	Allison K Swenson, *Utah Valley University, United States*
11:05 - 11:25	**Community dwelling older adults: do they perform exercise when having chronic pain**

	Tse Mimi, *London Metropolitan University, Hong Kong*
11:25 - 11:45	**Understanding Cancer Survivorship: Transitioning to Life after Cancer Treatment**
	Fitch Margaret, *Lawrence Bloomberg Faculty of Nursing, Canada*
11:45 - 12:05	**Phloretin increases anti-HER2 antibody drug affinity for cancer cells as an adjunct therapy for drug-resistant tumors in HER2-positive breast cancer**
	Yuan-Soon Ho, *China Medical University Hospital, Taiwan*
12:05 - 12:25	**Malaria and Its Impact on Maternal and Child Health**
	Tatiana Gardellini Guevara, *Universidad Especializada de las Américas, Panama*
12:25 - 12:45	**Transition of new older residents to nursing homes: A qualitative meta-synthesis**
	Binbin Mei, *Faculty of Nursing, Burapha University, Thailand*
12:45 - 13:05	**Enzymatic Biosensors for Environmental Monitoring: Detection of Cationic Surfactants in Water Systems**
	Brink Hendrik, *University of Pretoria, South Africa*
13:05 - 14:05	**Lunch Break and Networking**
14:05 - 14:45	**Poster Session - 1**
PO1	**Private health expenditure in european union countries**
	Tomasz Holecki, *Medical University of Silesia, Poland*
PO2	**Health promotion in relation to commercialization of spa treatment facilities.**
	Joanna Woźniak-Holecka, *Medical University of Silesia, Poland*
PO3	**Incorporating Single-Walled Carbon Nanotubes in Gelatin Methacrylate Hydrogels for potential real-time monitoring of tissue engineered scaffolds**
	Chih Hsin Lin, *Taipei Medical University, Taiwan*
PO4	**Global trends in the study of green space and mental health: Bibliometric review (1990-2024)**
	Yu-Sheng Shen, *University of Taipei, Taiwan*
PO5	**A Fast Wide-Range Air Balancing Control Method Based on Deep Reinforcement Learning**
	Fanyong Cheng, *Anhui Polytechinic University, Wuhu, China*
PO6	**Quality control of stroke screening using deep embedding for automatic classification of arterial segments**
	Chung-Ming Lo, *National Chengchi University, Taiwan*
PO7	**Electro-mechanical differential for robots that require Accelerated curvilinear movement**
	Abisai Jaime Reséndiz Barrón, *UNICAMP University, Mexico*
	Oral Sessions 2
14:45 - 15:05	**Requesting euthanasia or assisted suicide when it is illegal, how to understand the function of the request: a qualitative study in French palliative care units**
	Aline Chassagne, *Ufr Health	University of Franche-Comté, France*
15:05 - 15:35	**Environmental protectors of work stress Hospital: validation instrument ENPROS, Araucanía Chile, 2024.**
	Paula Astudillo-Díaz, *University of La Frontera, Chile*

15:35 - 15:55	**Social media intervention for obesity management**
	Brunna Boaventura, *Federal University of Santa Catarina, Brazil*
15:55 - 16:10	**Evening Coffee Break and Networking**
16:10 - 16:30	**Large Area Fabrication of Meta-lens and Meta-hologram Devices using Nanoimprint Lithography**
	Heon Lee, *Korea University, Korea*
16:30 - 16:50	**Hybrid Interface Design of Metal Halide Perovskites for Enhanced Stability and Performance in Optoelectronic Devices**
	Dong Hoe Kim, *Korea university, Republic of Korea*
16:50 - 17:10	**Efficacy of photobiomodulation therapy in restoring thyroid gland homeostasis**
	Venera Berisha Muharremi, *University of Prishtina, Kosovo*
17:10 - 17:30	**Visible near IR hyperbolic polaritons along hyperbolic metamaterials**
	Jingbo Sun, *Tsinghua University, China*
17:30 - 17:50	**Meta holography and its applications**
	Hui Gao, *Huazhong University of Science and Technology, China*
17:50 - 18:10	**New Artificial Intelligence to Estimate Anterior Chamber Depth from the images captured by Portable Slit-Lamp Microscope and Anterior-segment Op-tical Coherence Tomography**
	Shintaro Nakayama, *Keio University, Japan*
18:10 - 18:30	**Evaluation of recycled and reused metal powders for DMLS 3D printing**
	Simona Svozilova, *University of West Bohemia, Czech Republic*
	Networking and Day Closing
	Day 2 | May 20th, 2025
	Keynote Forum-2
8:00 - 8:30	**Managing Failures in Additive Manufacturing with Artificial Intelligence and Natural Language Processing**
	Turgut Refik Caglar, *Technical University Berlin, Germany*
8:30 - 9:00	**Empowering AI via Power Efficient Optical Interconnects**
	Jinlong Wei, *University of Wales, China*
9:00 - 9:30	**3D printing and Polycystic Ovary Syndrome**
	Sarantis Livadas, *University of Athens, Greece*
9:30 - 10:00	**Time-Sequential and Multi Functional 3D Printed Scaffold Provides Strategies for Postsurgical Osteosarcoma Treatment**
	Yuxiao Lai, *Chinese Academy of Science, China*

10:00 - 10:15	**Morning Coffee Break and Networking**
	Oral Sessions 3
10:15 - 10:35	**The role of quantum photonics in future 6Gquantum networks**
	Riccardo Bassoli, *Technische Universitat Dresden, Germany*
10:35 - 10:55	**Mechanical Properties of Polymer-Infiltrated Ceramic Networks: Influence of Design Parameters in Direct Ink Writing Manufacturing Technique**
	Gemma Fargas Ribas, *Polytechnic University of Catalonia BarcelonaTech, Spain*
10:55 - 11:15	**Skin-actuator interactions for vibrotactile haptic applications**
	Jin-Tae Kim, *Pohang University of Science and Technology, South Korea*
11:15 - 11:35	**Integrated and Bifunctional Bilayer 3D Printing Scaffold for Osteochondral Defect Repair**
	Cairong Li, *Shenzhen Institutes of Advanced Technology, China*
11:35 - 11:55	**Room temperature continuous wave circularly polarized laser from 3D chiral organic– inorganic perovskite**
	Beibei Xu, *Zhejiang University, China*
11:55 - 12:15	**Field Design Optimization Remote Sensing and Autonomous Navigation for Precision Agriculture**
	Kerin Romero Calvo, *National University of La Plata Argentina, Costa Rica*
12:15 - 12:35	**Hemaclassify: Blood Diseases Classification Model Utilizing High-Resolution Neural Networks**
	Afzan Adam, *Universiti Kebangsaan Malaysia, Malaysia*
12:35 - 12:55	**Monitoring greenhouse gases emission by ultra-long open-air path dual-comb spectroscopy**
	Ruocan Zhao, *University of Scienc and Technology of China, China*
12:55 - 13:55	**Lunch Break and Networking**
	Oral Sessions 4
13:55 - 14:15	**Beam deflector with 2um pixel pitch and its driving algorithm**
	Kanghee Won, *Kyung Hee University, South Korea*
14:15 - 14:35	**High-Precision Defect Detection in Fiber Optic Cable Assemblies: Integrating Industrial CT Imaging with Deep Learning Algorithm**
	Tengyin Shi, *Xidian University, China*
14:35 - 14:55	**Development of a Novel Magnesium Alloy with High Degradation Resistance and Osteo/Angiogenesis Activity through Scandium-enhanced Growth of Passivation Film**
	Zhengguang Wang, *Peking University Third Hospital, China*
14:55 - 15:15	**Light path control with halide perovskite materials for optoelectronic devices**
	Soo Young Kim, *Korea University, Republic of Korea*
15:15 - 15:35	**Portfolio practices in the principal evaluation process: A qualitative case study**
	Ahmed Alkaabi, *United Arab Emirates University, United Arab Emirates*

15:35 - 15:55	**Leveraging Explainable Hybrid AI and the Three Lines of Defense Model to Reduce Non-Technical Losses in Electricity Distribution Networks**
	Obumneme Nwafor, *Glasgow Caledonian University,United kingdom*
15:55 - 16:15	**Green IA: Environmental Cost of a Time Series Prediction Contest**
	Alfredo Garcia-Hiernaux, *Universidad Complutense de Madrid, Spain*
16:15 - 16:30	**Evening Coffee Break and Networking**
	Oral Sessions 5
16:30 - 16:50	**Canceled! Exploring the Phenomenon of Canceling**
	Babak Zafari, *Georgetown University McDonough School of Business, USA*
16:50 - 17:10	**Framework for integrating Metabolic Network and Regulatory Network for optimizing the production of desired metabolites**
	Kauthar Mohd Daud, *Universiti Kebangsaan Malaysia, Malaysia*
17:10 - 17:30	**Speech Recognition for the Kazakh Language: using Neural Networks and Deep Learning Techniques**
	Galym Kapyshev, *International Information Technology University, Kazakhstan*
17:30 - 17:50	**Ensemble modeling approaches to analyse crop traits from airborne and Sentinel imagery**
	Miguel Quemada, *Universidad Politécnica de Madrid, Spain*
17:50 - 18:10	**Bio-Inspired Underwater Localization: A Joint Active-Passive Electrolocation Approach**
	Jiegang Peng, *University of Electronic Science and Technology of China, China.*
	Networking and Day Closing
	**Day 3	May 21st, 2025**
	Keynote Forum-3
8:00 - 8:30	**Artificial Intelligence in Cytopathology and Histopathology of Cancer: The Evolution to Precision Pathology**
	Priya Hays, *Georgetown University, USA*
8:30 - 9:00	**Using machine learning to predict investors' switching behaviour**
	Evan Gilbert, *Momentum Investment Group and University of Stellenbosch, South Africa*
9:00 - 9:30	**Automation of Roadway Construction using Drones and Telerobotics**
	Jongwon Seo, *Hanyang University, South Korea*
9:30 - 10:00	**The Importance of Printed Power Sources for Printed Electronics**
	Martin Krebs, *Printa Battery, Germany.*
10:00 - 10:15	**Morning Coffee Break and Networking**

	Oral Sessions 6	
10:15 - 10:35	**Energy optimization and digitization of the photovoltaic using sun path tracker systems installed in a robot**	
	Abdellatif Hraich, *ENSA University Abdelmalek Essaadi, Morocco*	
10:35 - 10:55	**Ant colony optimization algorithm for the three-dimensional bin packing problem with rotation**	
	Denis Borenstein, *Federal University of Rio Grande do Sul, Brazil*	
10:55 - 11:15	**Faculty and students perspectives towards game-based learning in health sciences higher education**	
	Mead Maady Alqahtany, *King Saud bin Abdul-Aziz University for Health Sciences, Saudi Arabia*	
11:15 - 11:35	**The Impact of AI Applet on High School IELTS Learners' Writing Performance: A Survey Study Involving IELTS Teachers and Students**	
	Yu Hou, *Beijing Foreign Studies University, China*	
11:35 - 11:55	**Towards a Cooperative Urban Ecosystem: Integrating ITS and CCAM Technologies for a Safer Future Mobility**	
	David Yague-Cuevas, *Charles III University of Madrid, Spain*	
11:55 - 12:15	**Optimizing Early Detection of Reproductive Cancers with an AI-Based Gene Panel**	
	Mahsa Darbandi, *Icahn school of medicine at Mount Sinai, New York, USA*	
12:15 - 12:35	**Optimizing Prenatal Diagnosis and Therapy with AI: Advancements in Treating Rare Genetic Disorders**	
	Hamid Reza Khorram Khorshid, *University of Social Welfare and Rehabilitation Sciences, Iran*	
12:35 - 12:55	**MédicoBERT: A medical language model for Spanish NLP tasks with an application in question-answering using hyperparameter optimization**	
	Alma-Delia Cuevas, *Autonomous University of the State of Mexico, Mexico*	
12:55 - 13:55	**Lunch Break and Networking**	
	Oral Sessions 7	
13:55 - 14:15	**How Humanitarian Technology and Robotics Improve Lives at the Base of the Pyramid (BoP)**	
	Albert W.Y. Ko, *Lingnan University, Hong Kong.*	
14:15 - 14:35	**Integration of Cybersecurity, Usability, and Human-Computer Interaction for Securing Energy Management Systems**	
	Abdullah M. Albarrak, *Imam Mohammad Ibn Saud Islamic University, Saudi Arabia*	
14:35 - 14:55	**Robot Motion Adaptation: Addressing Occlusion for Human Position Reconstruction in Collaborative Environments via Depth Inpainting**	
	Ambra Vandone, *University of Applied Science, Switzerland*	
14:55 - 15:15	**Guidelines, Strategies, and Policies for Addressing AI-Enabled Academic Integrity Issues in Education**	

	Ahmadreza Mohebbi, *University of Auckland, New Zealand*
15:15 - 15:35	**Parameter optimization and signal comparison of particle detection sensors based on planar coils and different core materials**
	Zhang Hongpeng, *Dalian Maritime University, China*
15:35 - 15:55	**Navigating the Ethical Landscape of Robotics**
	Zainab Khalid Mohammed, *University Tenaga National, Iraq*
15:55 - 16:15	**Water Resources' AI–ML Data Uncertainty Risk and Mitigation Using Data Assimilation**
	Nick Martin, *hydrologist and software developer, USA*
16:15 - 16:30	**Evening Coffee Break and Networking**
	Oral Sessions 8
16:30 - 16:50	**The Hidden Battle: Understanding and Defending Against Adversarial Attacks in Machine Learning**
	Georgia Fargetta, *University of Catania Viale Andrea Doria, Italy*
16:50 - 17:10	**Bridging Human-Robot Interaction Gaps through Advanced Natural Language Processing**
	Konstantinos Kalodanis, *Harokopio University of Athens, Greece*
17:10 - 17:30	**Cross-section or Time-series: Return Forecasting in Cryptocurrency**
	Jia Zhai, *International Business School Suzhou, China*
17:30 - 17:50	**Artificial Intelligence Breakthroughs in Pioneering Early Diagnosis and Precision Treatment of Breast Cancer: A Multimethod Study**
	Nima Darbandi, *University of Georgia, USA*
17:50 - 18:10	**Investigating green hydrogen production operated by redundant energy on a solar PV mini-grid through Matlab simulation and artificial neural network**
	Gidphil Mensah, *Kwame Nkrumah University of Science and Technology, Ghana*
18:10 - 18:30	**Investigating the Potential of Artificial Intelligence in Managing Biological Aging and Treating Related Disease**
	Sara Darbandi, *cahn school of medicine at Mount Sinai, New York, USA*
	Networking and Day Closing
	**Day 4	May 22nd, 2025**
	Oral Sessions 9
8:30 - 8:50	**Unveiling the Significance: Sustainability and Environmental Disclosure in Saudi Arabia through Stakeholders' Theory**
	Raghad Abdulkarim Alsudays, *Imam Muhamed Ibn Saud University (IMAM), Saudi Arabia*
8:50 - 9:10	**Bio-inspired autonomous robotic wearable devices with self-energy, sensing and talking**
	G Stylios, *Heriot Watt University, UK*
9:10 - 9:30	**Synergy-based brain-machine interfaces in human-robot collaboration**

	Ramana Vinjamuri, *University of Maryland, USA*
9:30 - 9:50	**Effective Privacy Protection Strategies for Pregnancy, Gestation and Sexually Transmitted Infections Information from Chinese Electronic Medical Records: A Retrospective Study in a National Health Care Data Network**
	Gong Mengchun, *Guangdong Medical University, China*
9:50 - 10:10	**Deep Learning for Discrimination of Optical Coherence Tomography Skin Cell Images**
	Jui-Yun Yi, *National Kaohsiung Normal University, Taiwan*
10:10 - 10:25	**Morning Coffee Break and Networking**
10:25 - 10:45	**Philosophical and Legal Limitations of Generative AI in Engineering**
	Ziga Turk, *University of Ljubljana, Slovenia*
10:45 - 11:05	**AI Architecture and MLOps in the LLM/Agent Era**
	Bas Geerdink, *Aizonic, The Netherlands*
11:05 - 11:25	**3D Food Printing: A Transformative Technology Revolutionizing Food Preparation in Malaysia**
	Sylvester Mantihal, *Universiti Malaysia Sabah, Malaysia*
11:25 - 11:45	**A Novel Deep Reinforcement Approach for Performance Improvement in Elastic Optical Networks**
	Mehdi Shadaram, *University of Texas at San Antonio, USA*
11:45 - 12:05	**Development of a digital twin for additive manufacturing technology of metal parts using the direct deposition method**
	Pavlenko Petro, *Zhejiang ocean university, China*
12:05 - 12:25	**Reimaging Unsaturated Soil Behaviour Prediction with AlphaGeo-Inspired AI and Advanced Plasticity Model**
	Liuxin Chen, *Monash University, Australia*
12:25 - 12:45	**Research on Active Safety Defense System for Refrigerant Leakage Fault in R290 Room Air Conditioners**
	Jianghong Wu, *South China University of Technology, China*
12:45 - 13:05	**Presentation title: 3D Printing of Multimaterial and Multifunctional Contact Lenses for Ocular Health Management**
	Haider Butt, *Khalifa University, UAE*
13:05 - 13:55	**Lunch Break and Networking**
	Oral Sessions 10
13:55 - 14:15	**Sustained effects of bladder point-of-care ultrasound simulation exercise on nursing students**
	Tomoyoshi Naito, *Seirei Christopher University, Japan*
14:15 - 14:35	**Investigation of 3D Printing Parameters for Sustainable Additive Manufacturing**
	Qingjin Peng, *University of Manitoba, Canada*
14:35 - 14:55	**Slots available**

14:55 - 15:15	**In-situ multi-scale RGB imaging studies of spin coating using 3 wavelength laser or broadband white stroboscopic illumination**
	Jonathan Howse, *University of Sheffield, UK*
15:15 - 15:35	**Innovative Strategies for Educating the Next Generation of Nurses: A Case Study for the 2024 Habilitation Examination**
	Fabricio Guevara Viej, *Universidad Estatal de Milagro, Ecuador*
15:35 - 15:55	****Slots available****
15:55 - 16:15	**Poly methoxy flavones prevent benzo a pyrene dextran sodium sulfate-induced colorectal carcinogenesis**
	Min-Hsiung, *National Taiwan University, Taiwan*
16:15 - 16:30	**Evening Coffee Break and Networking**
16:30 - 16:50	**Wavelength Tuning in Resonant Cavity Interband Cascade Light Emitting Diodes (RCICLEDs) via Post Growth Cavity Length Adjustment**
	Johannes Koeth, *Julius Maximilians Universitat Wurzburg, Germany*
16:50 - 17:10	****Slots available****
17:10 - 17:30	****Slots available****
17:30 - 17:50	****Slots available****
17:50 - 18:10	****Slots available****
18:10 - 18:30	****Slots available****
	Networking and Day Closing

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