

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 , <i>Appalachian State University, USA</i>
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 , <i>Walden University, USA</i>
9:00 - 9:30	Urgent Need for Smartphone-Based SelfManagement Support Programs for Lung Cancer Patients: A Comprehensive Review
	Agnes Yuen Kwan Lai , <i>Metropolitan University, Hong Kong</i>
	Oral Sessions 1
9:30 - 9:50	The Environmental Determinants of Mental Health: A Study Using Geographic Ecological Momentary Assessment (GEMA)
	Mei-Po Kwan , <i>The Chinese University of Hong Kong, China</i>
9:50 - 10:10	Artificial Intelligence and Machine Learning in Healthcare Canada: A peak into the present landscape
	Sanjukta Basu , <i>Tulane University, Canada</i>
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 , <i>The George Washington University, USA</i>
10:45 - 11:05	Baseline Concussion Testing in High School Athletes: A Gap Between Policy and Practice
	Allison K Swenson , <i>Utah Valley University, United States</i>
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 Polytechnic 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 , <i>Federal University of Santa Catarina, Brazil</i>
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 , <i>Korea University, Korea</i>
16:30 - 16:50	Hybrid Interface Design of Metal Halide Perovskites for Enhanced Stability and Performance in Optoelectronic Devices
	Dong Hoe Kim , <i>Korea university, Republic of Korea</i>
16:50 - 17:10	Efficacy of photobiomodulation therapy in restoring thyroid gland homeostasis
	Venera Berisha Muharremi , <i>University of Prishtina, Kosovo</i>
17:10 - 17:30	Visible near IR hyperbolic polaritons along hyperbolic metamaterials
	Jingbo Sun , <i>Tsinghua University, China</i>
17:30 - 17:50	Meta holography and its applications
	Hui Gao , <i>Huazhong University of Science and Technology, China</i>
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 , <i>Keio University, Japan</i>
18:10 - 18:30	Evaluation of recycled and reused metal powders for DMLS 3D printing
	Simona Svozilova , <i>University of West Bohemia, Czech Republic</i>
	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 , <i>Technical University Berlin, Germany</i>
8:30 - 9:00	Empowering AI via Power Efficient Optical Interconnects
	Jinlong Wei , <i>University of Wales, China</i>
9:00 - 9:30	3D printing and Polycystic Ovary Syndrome
	Sarantis Livadas , <i>University of Athens, Greece</i>
9:30 - 10:00	Time-Sequential and Multi Functional 3D Printed Scaffold Provides Strategies for Postsurgical Osteosarcoma Treatment
	Yuxiao Lai , <i>Chinese Academy of Science, China</i>

10:00 - 10:15	Morning Coffee Break and Networking
	Oral Sessions 3
10:15 - 10:35	The role of quantum photonics in future 6G quantum networks
	Riccardo Bassoli , Technische Universität 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 Science and Technology of China, China
12:55 - 13:55	Lunch Break and Networking
	Oral Sessions 4
13:55 - 14:15	Beam deflector with 2µm 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 , <i>Glasgow Caledonian University, United Kingdom</i>
15:55 - 16:15	Green IA: Environmental Cost of a Time Series Prediction Contest
	Alfredo Garcia-Hiernaux , <i>Universidad Complutense de Madrid, Spain</i>
16:15 - 16:30	Evening Coffee Break and Networking
	Oral Sessions 5
16:30 - 16:50	Canceled! Exploring the Phenomenon of Canceling
	Babak Zafari , <i>Georgetown University McDonough School of Business, USA</i>
16:50 - 17:10	Framework for integrating Metabolic Network and Regulatory Network for optimizing the production of desired metabolites
	Kauthar Mohd Daud , <i>Universiti Kebangsaan Malaysia, Malaysia</i>
17:10 - 17:30	Speech Recognition for the Kazakh Language: using Neural Networks and Deep Learning Techniques
	Galym Kapyshev , <i>International Information Technology University, Kazakhstan</i>
17:30 - 17:50	Ensemble modeling approaches to analyse crop traits from airborne and Sentinel imagery
	Miguel Quemada , <i>Universidad Politécnica de Madrid, Spain</i>
17:50 - 18:10	Bio-Inspired Underwater Localization: A Joint Active-Passive Electrolocation Approach
	Jiegang Peng , <i>University of Electronic Science and Technology of China, China.</i>
	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 , <i>Georgetown University, USA</i>
8:30 - 9:00	Using machine learning to predict investors' switching behaviour
	Evan Gilbert , <i>Momentum Investment Group and University of Stellenbosch, South Africa</i>
9:00 - 9:30	Automation of Roadway Construction using Drones and Telerobotics
	Jongwon Seo , <i>Hanyang University, South Korea</i>
9:30 - 10:00	The Importance of Printed Power Sources for Printed Electronics
	Martin Krebs , <i>Printa Battery, Germany.</i>
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 , <i>University of Auckland, New Zealand</i>
15:15 - 15:35	Parameter optimization and signal comparison of particle detection sensors based on planar coils and different core materials
	Zhang Hongpeng , <i>Dalian Maritime University, China</i>
15:35 - 15:55	Navigating the Ethical Landscape of Robotics
	Zainab Khalid Mohammed , <i>University Tenaga Nasional, Iraq</i>
15:55 - 16:15	Water Resources' AI-ML Data Uncertainty Risk and Mitigation Using Data Assimilation
	Nick Martin , <i>hydrologist and software developer, USA</i>
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 , <i>University of Catania Viale Andrea Doria, Italy</i>
16:50 - 17:10	Bridging Human-Robot Interaction Gaps through Advanced Natural Language Processing
	Konstantinos Kalodanis , <i>Harokopio University of Athens, Greece</i>
17:10 - 17:30	Cross-section or Time-series: Return Forecasting in Cryptocurrency
	Jia Zhai , <i>International Business School Suzhou, China</i>
17:30 - 17:50	Artificial Intelligence Breakthroughs in Pioneering Early Diagnosis and Precision Treatment of Breast Cancer: A Multimethod Study
	Nima Darbandi , <i>University of Georgia, USA</i>
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 , <i>Kwame Nkrumah University of Science and Technology, Ghana</i>
18:10 - 18:30	Investigating the Potential of Artificial Intelligence in Managing Biological Aging and Treating Related Disease
	Sara Darbandi , <i>cahn school of medicine at Mount Sinai, New York, USA</i>
	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 , <i>Imam Muhamed Ibn Saud University (IMAM), Saudi Arabia</i>
8:50 - 9:10	Bio-inspired autonomous robotic wearable devices with self-energy, sensing and talking
	G Stylios , <i>Heriot Watt University, UK</i>
9:10 - 9:30	Synergy-based brain-machine interfaces in human-robot collaboration

	Ramana Vinjamuri , <i>University of Maryland, USA</i>
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 , <i>Guangdong Medical University, China</i>
9:50 - 10:10	Deep Learning for Discrimination of Optical Coherence Tomography Skin Cell Images
	Jui-Yun Yi , <i>National Kaohsiung Normal University, Taiwan</i>
10:10 - 10:25	Morning Coffee Break and Networking
10:25 - 10:45	Philosophical and Legal Limitations of Generative AI in Engineering
	Ziga Turk , <i>University of Ljubljana, Slovenia</i>
10:45 - 11:05	AI Architecture and MLOps in the LLM/Agent Era
	Bas Geerdink , <i>Aizonic, The Netherlands</i>
11:05 - 11:25	3D Food Printing: A Transformative Technology Revolutionizing Food Preparation in Malaysia
	Sylvester Mantihal , <i>Universiti Malaysia Sabah, Malaysia</i>
11:25 - 11:45	A Novel Deep Reinforcement Approach for Performance Improvement in Elastic Optical Networks
	Mehdi Shadaram , <i>University of Texas at San Antonio, USA</i>
11:45 - 12:05	Development of a digital twin for additive manufacturing technology of metal parts using the direct deposition method
	Pavlenko Petro , <i>Zhejiang ocean university, China</i>
12:05 - 12:25	Reimaging Unsaturated Soil Behaviour Prediction with AlphaGeo-Inspired AI and Advanced Plasticity Model
	Liuxin Chen , <i>Monash University, Australia</i>
12:25 - 12:45	Research on Active Safety Defense System for Refrigerant Leakage Fault in R290 Room Air Conditioners
	Jianghong Wu , <i>South China University of Technology, China</i>
12:45 - 13:05	Presentation title: 3D Printing of Multimaterial and Multifunctional Contact Lenses for Ocular Health Management
	Haider Butt , <i>Khalifa University, UAE</i>
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 , <i>Seirei Christopher University, Japan</i>
14:15 - 14:35	Investigation of 3D Printing Parameters for Sustainable Additive Manufacturing
	Qingjin Peng , <i>University of Manitoba, Canada</i>
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 , <i>University of Sheffield, UK</i>
15:15 - 15:35	Innovative Strategies for Educating the Next Generation of Nurses: A Case Study for the 2024 Habilitation Examination
	Fabricio Guevara Viej , <i>Universidad Estatal de Milagro, Ecuador</i>
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 , <i>National Taiwan University, Taiwan</i>
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 , <i>Julius Maximilians Universitat Wurzburg, Germany</i>
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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