CANADIAN ASSOCIATION FOR ARTIFICIAL INTELLIGENCE AND FUTURE STUDIES

Conference Program

2nd International Conference on

Intelligent Systems and Computational Strategies in Engineering and Technology (ICICET 2026)

2nd International Conference on

Advancement in Healthcare Technology and Biomedical Engineering (AHTBE 2026)

University Canada West, Vancouver, BC, Canada

AUGUST 21-22, 2026

About AAIFS

The Canadian Association for Artificial Intelligence and Future Studies (AAIFS) is a pioneering non-profit society (registration # S0081875) established in 2024 and committed to fostering collaboration among academia, industry, and policymakers in the fields of Artificial Intelligence (AI) and Future Studies. We provide a platform where innovative ideas, research, and best practices converge to address the challenges and opportunities presented by artificial intelligence and emerging technologies. Through the organization of scientific meetings, conferences, and workshops, we foster interdisciplinary collaboration, promote innovation, and support the development of sustainable solutions for the future.

Vision

To be one of the leading platforms to foster innovation, collaboration, and ethical advancements in Artificial Intelligence and Future Studies, seeking transformation solutions for Canada and the world.

Mission

To unite academics, industry leaders, policymakers, and enthusiasts to advance understanding, development, and responsible use of Artificial Intelligence and Future Studies. We aim to promote knowledge sharing, interdisciplinary research, and sustainable innovation for societal advancement.

aaifs.org

Get free Membership coupon code: **ICICET26**
aaifs.org/membership-options

About Conference

The 2nd ICICET and AHTBE 2026 will be held on August 21–22, 2026, at **University Canada West**, Vancouver, British Columbia, Canada. The conference is organized by the Canadian Association for Artificial Intelligence and Future Studies (AAIFS), and is sponsored by University Canada West, Thompson Rivers University, and the University of Minnesota Crookston.

The conference welcome more than **120 researchers, faculty members, students, industry professionals, and innovators from 22 countries**, including participants from leading Canadian and international universities. The conference will serve as a premier international forum for presenting cutting-edge research, exchanging knowledge, and fostering collaboration in the fields of Artificial Intelligence, intelligent systems, computational strategies, engineering technologies, and emerging digital innovations. The program will also feature discussions on AI applications in healthcare, smart technologies, and other interdisciplinary domains that support innovation, economic growth, and societal impact.

The conference aligns with **Canada's vision of fostering innovation and responsible AI adoption** by bringing together academia, government, industry, and research organizations to discuss emerging opportunities, policy considerations, commercialization, and the future of AI-enabled technologies. Through keynote presentations, technical sessions, and networking opportunities, we aims to strengthen research partnerships and promote innovation within British Columbia and beyond.

icicet.ca

ahtbe.ca

Conference Program Summary

Day 1: 09:30-12:00	**Opening Ceremony and Invited Guest Talks (Main Hall E306, 3rd Floor, East Building)** Teams Link to join Online		
Day 1: 12:00-13:00	**Research Posters Exhibition & Light Lunch (Conference Lobby)** Teams Link to join Online		
Day 1: 13:00-14:30 Parallel Sessions	**Parallel Session 1 (Main Hall E-306)** Teams Link to join Online	**Parallel Session 2 (Room E-303)** Teams Link to join Online	**Parallel Session 3 (Room E-304)** Teams Link to join Online
Day 1: 14:30-14:45	**Coffee & Networking Break (Conference Lobby)** Teams Link to join Online		
Day 1: 14:45-16:15 Parallel Sessions	**Parallel Session 4 (Main Hall E-306)** Teams Link to join Online	**Parallel Session 5 (Room E-303)** Teams Link to join Online	**Parallel Session 6 (Room E-304)** Teams Link to join Online
Day 1: 16:15-16:00	**Awards and Day 1 Closing Ceremony and Gala Dinner (Conference Lobby)** Teams Link to join Online		
Day 2: 10:00-11:30 Parallel Sessions	**Parallel Session 7 (Main Hall E-306)** Teams Link to join Online	**Parallel Session 8 (Room E-303)** Teams Link to join Online	**Parallel Session 9 (Room E-304)** Teams Link to join Online
Day 2 11:30-11:45	**Coffee & Networking Break (Conference Lobby)** Teams Link to join Online		
Day 2: 11:45-13:45 Parallel Sessions	**Parallel Session 10 (Main Hall)** Teams Link to join Online	**Parallel Session 11 (Room E-303)** Teams Link to join Online	**Parallel Session 12 (Room E-304)** Teams Link to join Online

Conference Address:

1461 Granville St, Vancouver, BC V6Z 0E5 (University Canada West)

Note:

- All times are based on Vancouver time (PDT, GMT−7). Each research paper presentation will be 15 minutes.
- ***Attendance at both the Opening Ceremony and the Closing Ceremony is mandatory for all authors and participants.***

Opening Ceremony and Invited Guest Talks

August 21, 2026 (9:30-12:00)
UCW, East Building
3rd Floor Conference Lobby

CANADIAN ASSOCIATION FOR ARTIFICIAL INTELLIGENCE AND FUTURE STUDIES

UNIVERSITY CANADA WEST · UNIVERSITY OF MINNESOTA CROOKSTON · SUPERIOR UNIVERSITY · InspireQuill.org Inspire Academic Press

Microsoft Research · diagnostics · AHTBE · ICICET

Opening & Guest Talks: August 21, 2026

Day 1 9:30-12:00 – Conference Lobby

Dr. Jaafar Alghazo
Conference Emcee
General Chair

Dr. Ghazanfar Latif
Master of Ceremonies
General Chair

Location: Main Hall
Time: 9:30-12:00
Vancouver (GMT-7)

Online Teams Link

Scan or Click to Join Online

Dr. Mazi Shirvani (Vice President, Academic), UCW

Welcome Speech / Keynote **(15 minutes)**

Dr. Mazi Shirvani is the interim Vice President, Academic at the University Canada West, Vancouver, BC. The distinguished mathematician completed both his BSc and PhD degrees at Queen Mary University of London. Following his doctoral studies, he embarked on a postdoctoral fellowship before joining the General Electric Co. of Britain's Advanced Research Lab from 1985 to 1987, working on neural networks and associative memories. In 1987, Dr. Shirvani moved to work in academia, joining the Department of Mathematics at the University of Alberta. Over three decades, he dedicated himself to teaching, research and administrative work, including significant labour relations duties. He retired as an emeritus professor in December 2018. Throughout his tenure, he served in various leadership roles, including Vice-Provost and Dean of the Faculty of Graduate Studies and Research from 2008 to 2015, and chair of the Board of Trustees of the Universities Academic Pension Plan from 2007 to 2009.

Dr. Stewart Fast (Director, Office of Research & Scholarship), UCW

Research Initiatives and Opportunities at UCW **(15 minutes)**

Dr. Stewart Fast is the Director of the Office of Research & Scholarship at University Canada West (UCW), where he leads initiatives that advance research excellence, faculty scholarship, interdisciplinary collaboration, and external research partnerships. He holds a Ph.D. from the University of Ottawa, a Master's degree from Carleton University, and a Bachelor of Science from McGill University. Prior to joining UCW, Dr. Fast held senior leadership and research positions with Natural Resources Canada, the Networks of Centers of Excellence, and the University of Ottawa, contributing extensively to research policy, innovation, and science leadership. His research interests include science and innovation policy, sustainability, energy systems, and knowledge mobilization, and he has served as an expert reviewer for national and international research funding organizations.

Opening & Guest Talks: August 21, 2026

Day 1 9:30-12:00 – Conference Lobby

Dr. Jaafar Alghazo
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General Chair

Location: Main Hall
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Vancouver (GMT-7)

Online Teams Link

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Dr. Musfiq Rahman, Chair Computing Science, TRU

Technical Speaker 1: The Convergence of Intelligence: AI and Cybersecurity **(35 minutes)**

Dr. Musfiq Rahman is the Chair and Associate Professor in the Department of Computing Science at Thompson Rivers University, Canada. With extensive experience in teaching, research, and academic leadership, his expertise spans cybersecurity, wireless communications, cloud computing, Internet of Things (IoT), and emerging networking technologies. His research focuses on security and resource management in wireless sensor networks, RFID, near-field communication (NFC), cloud security, and smart connected systems. Dr. Rahman a Ph.D. from Dalhousie University, Canada. He has authored numerous peer-reviewed journal and conference publications and has led and collaborated on research projects in network security, wireless communications, and intelligent computing. Passionate about teaching and mentoring, Dr. Rahman has supervised graduate and undergraduate research while contributing to curriculum development and academic excellence. As Chair of the Computing Science Department, he continues to advance innovation in computing education and research at TRU.

Prof. Hamed Taherdoost, Chair of RSAC, UCW, Vancouver

Technical Speaker 2: Reimagining the Future: Challenges and Innovations in Sustainable Smart Cities **(35 minutes)**

Dr. Hamed Taherdoost is an award-winning researcher and innovation leader with over 20 years of experience in academia and industry. He is the founder of Hamta Business Corporation, Professor and Chair of RSAC at University Canada West, and Director of R&D at Q Minded | Quark Minded Technology Inc. He has led projects across healthcare, transportation, residential, oil and gas, and IT, while also serving as a technology consultant and mentor for numerous organizations. Dr. Taherdoost has authored over 350 scientific publications, receiving more than 36,000 citations and achieving an h-index above 50. He has also written books and textbooks on E-Business and Digital Transformation, which are used at institutions including the University of Malta, the University of Macau, and University Canada West. His achievements include ranking among the top 10 SSRN Business Authors (2021–2024) and being recognized in the Stanford-Elsevier list of the world's top 2% of Scientists from 2021 to 2024.

Opening & Guest Talks: August 21, 2026

Day 1 9:30-12:00 – Conference Lobby

Dr. Jaafar Alghazo
Conference Emcee
General Chair

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Master of Ceremonies
General Chair

Location: Main Hall
Time: 9:30-12:00
Vancouver (GMT-7)

Online Teams Link

Scan or Click to Join Online

Prof. Greg Anderson, Dean, School of Nursing, TRU

Technical Speaker 3: Advancements in Healthcare Technology

(20 minutes)

Dr. Greg Anderson is the Interim Dean of the School of Nursing and Professor at Thompson Rivers University, Canada. An accomplished academic leader, educator, and researcher, he previously served as Dean of the Faculty of Science, where he led significant growth in academic programs, research, and student enrolment. Trained in exercise and occupational physiology, Dr. Anderson's research focuses on occupational health, resilience, physiological stress, and the physical and mental well-being of public safety personnel and frontline healthcare professionals. He is a founding member of the Canadian Institute for Public Safety Research and Treatment (CIPSRT) and has secured nearly $50 million in research funding while authoring more than 100 peer-reviewed publications. His research has contributed to the development of evidence-informed practices, policies, and programs that improve the health and resilience of public safety organizations across Canada. As Interim Dean of the School of Nursing, Dr. Anderson continues to advance interdisciplinary health education, research, and innovation while fostering collaboration between academia, healthcare, and community partners.

Prof. Vivek Kumar, Dean, Faculty of Science, TRU

Technical Speaker 4: Advancements in Healthcare Technology

(20 minutes)

Dr. Vivekanandan (Vivek) Kumar is the Acting Dean of the Faculty of Science and Professor of Computing Science at Thompson Rivers University, Canada. He is internationally recognized for his research in Artificial Intelligence in Education (AIED), intelligent tutoring systems, cognitive agents, and educational technologies. He earned his Ph.D. in Computer Science from the University of Saskatchewan and has held academic positions in Canada, the United States, New Zealand, India, and Sri Lanka. Dr. Kumar has authored more than 175 peer-reviewed publications and secured research funding from agencies including NSERC, SSHRC, and CFI. An IEEE Senior Member, he is committed to advancing interdisciplinary research, innovation in science and computing education, and collaboration between academia, industry, and the community.

Research Posters Exhibition & Light Lunch

August 21, 2026 (12:00-13:00)

UCW, East Building
3rd Floor Conference Lobby

CANADIAN ASSOCIATION FOR ARTIFICIAL INTELLIGENCE AND FUTURE STUDIES

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Parallel Session 1: August 21, 2026

Day 1 13:00-14:30 – Conference Lobby

Prof. Aigerim Shilibekova
Session Chair

Dr. Musfiq Rahman
Session Co-Chair

Location: Main Hall
Time: 13:00-14:30
Vancouver (GMT-7)

Online Teams Link

Scan or Click to Join Online

M-1 Paper ID: IC2510
in-person

DLam Pham; Dinh-Lam Pham; Beyongnam Yoon; Kwanghoon Kim
AI-Driven Digital Twin Business Process Operation and Optimization: Architecture and Experimental Results

M-2 Paper ID: AH15220
in-person

Sehrish Javed, Srinivas G., Lixia W., Dante Rigo D. R., Linda A., Garima D., Stephen P., Debiao L., Touseef Q.
Gallbladder Radiomic Signatures Improve Early Risk Stratification for Pancreatic Ductal Adenocarcinoma Using Pre-Diagnostic CT Imaging

M-3 Paper ID: IC2514
in-person

Sherif Abdelhamid; James B.; Gunnar R.; Lucienne A.; Blain P.; David F.; Sarah P.,
Cyber-as-a-Service: An Interdisciplinary, Student-Led Model for Advancing Community Cybersecurity, AI Readiness, and Workforce Development

M-4 Paper ID: IC2517
in-person

Gursahib Singh; Greg Anderson, Ghazanfar Latif
Personalized Fitness Recommendation System: A Machine Learning Analysis of BMI-Based Exercise and Nutrition Guidance

M-5 Paper ID: IC2568
in-person

Amit Kohli; Ashish KC; Arshad Khan; Hamed Taherdoost,
Digital Transformation in Healthcare: An Explainable XGBoost–MLP Model for Predicting Medication Errors Using Electronic Health Records

M-6 Paper ID:IC2552
in-person

Morteza Raeisi; Shabnam Fani; Mojtaba Aghajanpoorpasha
Bridging Statistical and Machine Learning Approaches for Colon Cancer Survival Analysis: Interpretability and External Validation in Real-World Data

Parallel Session 2: August 21, 2026

Day 1 13:00-14:30 – Room E303

Dr. Mridula Sharma
Session Chair

Dr. Vidhi Thakkar
Session Co-Chair

Location: Room E303
Time: 13:00-14:30
Vancouver (GMT-7)

Online Teams Link

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M-7 Paper ID: AH15207
in-person

Jacqueline Ashby

Preparing Future Physicians for Artificial Intelligence: Medical Students' Perceptions, Experiences, and Educational Needs

M-8 Paper ID: IC2570
in-person

Ali Khazraei Vizhemehr

AI-Enabled Immersive Learning for Mental Health Education: Virtual Reality, Virtual Humans, and Experiential Empathy

M-9 Paper ID: AH1562
in-person

Malika Yaici; Sonia Bazizi; Chabha Beldjoudi

EHR's Management System based on Blockchains

M-10 Paper ID: IC2535
in-person

Andrii Klymov; Sahil Madisetti

Smart Garbage Classification System using Deep Learning

M-11 Paper ID: AH15165
in-person

Chen Ye Ciou; Po Lin Huang; Hong Kai Wang; Tsung Yi Chen; Shih Lun Chen; Tsun Kuang Chi; Patricia Abu, Automated Evaluation of Cervical Spine Radiographs: A Framework Integrating Advanced Preprocessing, U-Net Segmentation, and PCA-Based Feature Extraction

M-12 Paper ID: IC2538
in-person

Narshini Chuckowry; Amreen Kaur; Kshitij Santokhee; Bhavya Bhola

Image-Based Ship Classification Using Deep Learning Techniques for Intelligent Maritime Monitoring

Parallel Session 3: August 21, 2026

Day 1 13:00-14:30 – Room E304

Prof. Amir Albadvi
Session Chair

Dr. Jaspreet Kaur
Session Co-Chair

Location: Room E304
Time: 13:00-14:30
Vancouver (GMT-7)

Online Teams Link

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M-13 Paper ID: IC2543 in-person

Ken Howarth
Judgment-Preserving Governance for Large Language Model Deployment in Engineering and Organizational Systems

M-14 Paper ID: AH15195 in-person

Pezhman Jalali; Bahareh Babamiri; Mehdi Mohammadi Ashani; Amir Sanati Nezhad, Cap-Sweat-R: Real-Time Biomarker Sensing through a Preprogrammed Wearable Capillary Microfluidic Platform

M-15 Paper ID: IC2592 in-person

Rowland A.; Angelo D.; Christian V.; Patrick C.; Herson A. D.; Mahdi Firoozjaei, A Data-Driven Decision-Support Framework for Police Emergency Call Classification

M-16 Paper ID: IC2571 in-person

Vidhi Thakkar; Sandra Song; Mustafa Ornek; Fitri Antoni; Navdita Chopra; Hamed Taheerdost
The Courage to use AI in Healthcare Decision-Making: A Scoping Review and Recommendations for Leaders

M-17 Paper ID: IC258 in-person

Brock Young; Zeinab Teimoori
The G2C-DTP Pipeline: A Case Study of Safe and Performant Large Scale Data Migration Between Modern Distributed Storage Systems

M-18 Paper ID: AH15189 in-person

Mohammed Shaikh; Jamil Ur Reza; Ghazanfar Latif; Muhammad Hanif; Yasin Mamatjan, Transparent and Reproducible Academic AI Advisor for Skill Mapping and Personalized Course Recommendation

Coffee & Networking Break

14:30-14:45: Floor Conference Lobby

Parallel Session 4: August 21, 2026

Day 1 14:45-16:15 – Conference Lobby

Dr. Yasin Mamatjan
Session Chair

Dr. Runna Alghazo
Session Co-Chair

Location: Main Hall
Time: 14:45-16:15
Vancouver (GMT-7)

Online Teams Link

Scan or Click to Join Online

M-19 Paper ID: IC2532 in-person

Anthony Aighobahi, Hailey Marshall, Avneet Kaur, Md Moniruzzaman, A Two-Axis Framework for Analyzing Phishing Intent and AI-Generated Emails

M-20 Paper ID: IC25101 in-person

Yahia Boray; Noora Fetais
Single-Panorama Smart Home Digital Twins via VLM-Guided Scene Graphs and Object-Level Reconstruction

M-21 Paper ID: AH15188 in-person

Brock Young; Jamil Ur Reza; Yasin Mamatjan
Securing Agentic Clinical Pipelines via Architectural Safeguards and Security Telemetry

M-33 Paper ID: AH15184 in-person

Amar Paramaraj; Amit Kholi; Shahinaz Hanem; Christian Amponsah; Examining Digital Health Feature Adoption in Canadian Hospitals: A Cross-Provincial Analysis Using the ADKAR Framework

M-23 Paper ID: AH15156 in-person

Jone Eng Tan
Acne Image Classification: Comparative Analysis of Using Convolutional Neural Networks and Vision Transformers

M-24 Paper ID: IC25130 in-person

Gursahib Singh; Mridula Sharma;
Auditable Grounding for AI Career Guidance: Knowledge Representation and Retrieval Design over Official Labour Statistics

Parallel Session 5: August 21, 2026

Day 1 14:45-16:15 – Room E303

Dr. Touseef Qureshi
Session Chair

Dr. Shaista Jabeen
Session Co-Chair

Location: Room E303
Time: 14:45-16:15
Vancouver (GMT-7)

Online Teams Link

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M-25 Paper ID:IC2529
in-person
Sara Ghatta
Protecting the IP address while surfing and private online banking

M-26 Paper ID: IC2539
in-person
Narshini Chuckowry
Leveraging Artificial Intelligence for the Digital Preservation and Revitalization of Indigenous Languages in Canada

M-27 Paper ID: IC2578
in-person
Mahmood Mortazavi Dehkordi
Toward Sustainable Quantum-Enabled HPC Cloud Systems: A Conceptual Framework

M-28 Paper ID: IC2569
in-person
Amit Kohli; Naji Yazdi; Jane Ali
Leadership and Change Management in Digital Transformation: An Empirical Analysis Using the World Management Survey Dataset

M-29 Paper ID: AH15190
in-person
Ehesan Maimaitijiang; Multimodal and Multi-Agent AI for Patient Monitoring in Digital Health: Current Progress and Future Perspectives with a Case Study on Cardiovascular Risk Assessment

M-30 Paper ID: IC2547
in-person
Alijah Derkacz; Aidan Chan; Jesse Comeau; Junwen Huang
"Just in Time" vs "Ahead of Time": Android Device Generations

Parallel Session 6: August 21, 2026

Day 1 14:45-16:15 – Room E304

Dr. Olfat Ganji Bidmeshk
Session Chair

Dr. Yan Song
Session Co-Chair

Location: Room E304
Time: 14:45-16:15
Vancouver (GMT-7)

Online Teams Link

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M-31 Paper ID: IC257
in-person

Buhimila Golani Mboja; Mridula Sharma; Zeinab Teimoori
An IoT-Driven Decision Support Framework for Urban Air Pollution Monitoring Across Developed and Developing Cities

M-32 Paper ID: IC2518
in-person

Pooja Verma
AI-Driven Wildfire Management: Optimizing Post-Fire Reforestation through Topographical and Burn Severity Analysis

M-22 Paper ID: AH15146
in-person

Antonio da Silva
A Mobile Application for Skin Lesion Analysis Using Artificial Intelligence

M-34 Paper ID: IC2557
in-person

Shahinaz Hanem Abdellatif; Arifusalam Shaikh
Enablers and Barriers of Digital Entrepreneurship: Startup Ecosystems, Innovation Hub and Digital Business Models

M-35 Paper ID: AH15169
in-person

Manpreet Singh, Akashdeep Singh
Brain Tumor Detection and Classification Using Deep Learning: A Comparative Analysis of CNNs and Vision Transformers on MRI Images

M-36 Paper ID: IC2551
in-person

Vahideh Baradaran-Rafiee, Sherry Campbell, AI-Driven Dark Patterns in Digital Marketing: Consumer Vulnerability, Manipulation Perception, and the Case for Regulatory Reform in Canada

Day 1 Closing & Gala Dinner

August 21, 2026 (Day 1 16:15-18:00) – Conference Lobby

Day 1 Closing Ceremony, Awards and Gala Dinner

Location: Main Hall
Time: 16:15-18:00
Vancouver (GMT-7)

Online Teams Link

Scan or Click to Join Online

Dr. Ghazanfar Latif, President, Canadian Association for AI & Future Studies

Speaker: Resilience Against AI Disinformation: Capabilities and Readiness in Canada's Security Sector **(20 minutes)**

Dr. Ghazanfar Latif is an Assistant Professor of Computing Science at Thompson Rivers University, Canada, and President of the Canadian Association for Artificial Intelligence and Future Studies (AAIFS), a non-profit connecting academia, industry, and policymakers. An IEEE Senior Member with over twelve years of research experience, he has published 90+ peer-reviewed papers in AI, machine learning, and computer vision, and holds 14 US patents. His research spans human-centred AI, including AI-generated content detection, information integrity, assistive technologies, and AI in education with over 110 research publications. He has been named to the Stanford/Elsevier World's Top 2% Scientists list (2024, 2025) and received a Gold Medal at the 49th International Exhibition of Inventions Geneva. He previously served as Acting Director of the Center for Artificial Intelligence at Prince Mohammad Bin Fahd University and serves on the editorial board of Springer's Discover Artificial Intelligence.

Komil Mamajanov, Vice President, Strategic Development, University Canada West

Conference Day 1 Closing Remarks **(10 minutes)**

Komil Mamajanov serves as Vice President, Strategic Development at University Canada West (UCW), where he leads strategic growth, innovation, and global engagement initiatives. With over 15 years of international leadership experience in higher education across Canada, the United States, Germany, and the United Kingdom, he has played a key role in institutional development, international partnerships, and student recruitment. A frequent speaker at international conferences and industry events, he shares insights on higher education, innovation, global student mobility, and strategic leadership. He holds a Triple Accredited MBA from Grenoble Ecole de Management, France, and a BA in Linguistics from Samarkand State University of Foreign Languages. Through his leadership, he continues to advance UCW's mission of delivering high-quality, globally connected education while fostering innovation and collaboration.

Parallel Session 7: August 22, 2026

Day 2 10:00-11:30 – Conference Lobby

Dr. Francesca Pagliara
Session Chair

Dr. Jaafar Alghazo
Session Co-Chair

Location: Main Hall
Time: 10:00-11:30
Vancouver (GMT-7)

Online Teams Link

Scan or Click to Join Online

M-37 Paper ID: IC2566 online

Yerik Mardenov; Tamara Z.; Nurdaulet K.; Zulfiqar Ahmad; Faneela F.; Dina S., A Lightweight ML-Based Multiclass IDS for Resource-Constrained Wireless Networks Using Penetration Testing-Inspired Adversarial Traffic Analysis

M-38 Paper ID: IC2520 online

Irina Di ruocco; Amirhossein Moradzadeh; Francesca Pagliara, Capturing the Effects of High-Speed Rail on Italian Housing Markets: A Machine Learning Approach

M-39 Paper ID: AH1596 online

Angélica Villalpando; Samara Acosta; Eric Galván; Vanessa Alcalá; José Celaya; Jorge Galván, Deep Learning-Based Diagnosis of Hip Osteoarthritis in Football Athletes Using Convolutional Neural Networks

M-40 Paper ID: AH1566 online

Valeria Maeda-Gutiérrez; Luis C. Reveles-Gómez; Juan José Oropeza-Valdez; Luis Alberto Flores-Chaires; Karina Trejo-Vázquez; Fabian Navarrete-Rocha, Clinical Prediction of Diabetic Foot Ulcers using Gradient Boosting Models with Explainable Artificial Intelligence

M-41 Paper ID: IC2521 online

Tahseen Bashir; Francesca Pagliara Evaluating Road Network Resilience in Naples Through Network Theory and Flow-Weighted Centrality Measures

M-42 Paper ID: IC2587 online

Mays Raad Akif; Ahmed Al Sammarraie Automated Nine-Class White Blood Cell Classification Using a Hybrid ResNet50–SVM Model with Random Forest Feature Selection

Parallel Session 8: August 22, 2026

Day 2 10:00-11:30 – Room E303

Dr. Sherry Abdellatif
Session Chair

Dr. Mohsin Butt
Session Co-Chair

Location: Room E303
Time: 10:00-11:30
Vancouver (GMT-7)

Online Teams Link

Scan or Click to Join Online

M-43 Paper ID: AH15163 in-person

Sherif Abdelhamid; Sarah Patterson; Mona Aly
Game-Based AI-Assisted Simulation for Teaching Epidemic Spread and Intervention Strategies in Healthcare Education

M-44 Paper ID: AH1535 online

Aadya Kanchan
Microfluidic Device for Rapid Detection of Familial Hyperlipidaemia Using Optical Turbidity Sensing

M-45 Paper ID: AH1558 online

Diana Del Muro Longoria; Karen E. Villagrana Bañuelos; Carlos E. Galván Tejada; Manuel A. Soto Murillo; Laya Padilla; Vanessa Alcalá Ramírez,
Comparative Analysis of Supervised Learning Algorithms and Oversampling Techniques as a Tool for Cervical Cancer Diagnosis

M-46 Paper ID: IC2580 in-person

Brent Ramsay; Arifusalam Shaikh
Business Model Circle and its Offering for Indigenous Digital Entrepreneurship

M-47 Paper ID: AH15133 online

J Malakai Bailey; Pedro Umbelino; William Yurcik; Gregory Pluta
"They Live" – The Problem of Insecure Clinical Images on the Internet

M-48 Paper ID: AH15130 online

Sheeraz Akram
Explainable Alzheimer's Disease Classification from MRI Using Pretrained Transformers

Parallel Session 9: August 22, 2026

Day 2 10:00-11:30 – Room E304

Dr. Shireen Al-Hourani
Session Chair

Dr. Runna Alghazo
Session Co-Chair

Location: Room 304
Time 10:00-11:30
Vancouver (GMT-7)

Online Teams Link

Scan or Click to Join Online

M-49 Paper ID: IC2582 in-person

Sana Jamil

From Past to Present: A Critical Review of Educational Technologies and Artificial Intelligence Integration

M-50 Paper ID: IC2575 online

Muhammad Umer Iqbal; Momina Hafeez; Dr. Rimsha Anam; Abdul Jabbar; Grigori Sidorov, Deep Contextual Learning Versus Traditional Machine Learning in Social Media Sentiment Classification

M-51 Paper ID: AH15215 online

Fahad Farooq Jamie

Comparative Evaluation of Neural Network and Statistical Feature Selection Methods for Transcriptomic Classification of Pancreatic Ductal Adenocarcinoma

M-52 Paper ID: IC2584 online

Arifusalam Shaikh; Carlos Bazan; Erandi Rajapaksha, Prediction Machines and Entrepreneurial Intentions: Revisiting the Theory of Planned Behaviour with Four Waves of Data and Predictive AI

M-53 Paper ID: AH15177 online

Anushree Bhople

Data-Driven Optimization of Practitioner Panel Sizes for Population-Centric Healthcare Delivery

M-54 Paper ID: IC2577 online

Sayem Mia; Sina Najafi; Fahimeh Jafari

RadarSeq++: A Hybrid State-Space and Attention Architecture for Long Horizon Churn Prediction in Non-Subscription Platforms

Day 2 Keynote Coffee

August 22, 2026 (Day 2 11:30-12:00) – Conference Lobby

Day 2 Guest Speaker

Location: Main Hall
Time: 16:15-18:00
Vancouver (GMT-7)

Online Teams Link

Scan or Click to Join Online

Dr. Runna Alghazo, Department of Education, Health, and Behavior Studies, University of North Dakota

Speaker: Beyond Access: AI-Enabled Assistive Technology for Disability, Rehabilitation, and Inclusion **(30 minutes)**

Recent developments in artificial intelligence have expanded the range of assistive technologies available to support persons with disabilities in areas such as communication, mobility, cognition, sensory functioning, rehabilitation, and independent living. However, the effectiveness of assistive technology depends on more than the availability or sophistication of the technology. Appropriate selection and use require consideration of the individual's functional needs, goals, preferences, environment, and ability to use the technology. This presentation examines current and emerging AI-enabled assistive technologies and their applications in disability and rehabilitation. It also addresses issues related to accessibility, cost, privacy, ethical use, equitable access, training, and technology abandonment. Particular attention is given to person-centered assessment and to evaluating outcomes related to functioning, independence, participation, and quality of life. The presentation also considers the importance of interdisciplinary collaboration and the involvement of persons with disabilities in the development and implementation of assistive technology.

Parallel Session 10: August 22, 2026

Day 2 12:00-13:45 – Conference Lobby

Prof. Arifusalam Shaikh
Session Chair

Dr. Jumana Badar
Session Co-Chair

Location: Main Hall
Time: 11:45-13:30
Vancouver (GMT-7)

Online Teams Link

Scan or Click to Join Online

M-55 Paper ID: AH15185 in-person

Shahinaz Hanem Abdellatif, Nesreen W.; Mostafa Z.; Hussam A.; Yasser A.
Toward Sustainable and Responsible AI Adoption in Intelligent Healthcare Systems: A Hybrid Agile Governance and Risk Management Framework

M-56 Paper ID: IC2556 in-person

Ankita Srivastava; Amit Kohli; ShahinazHanem; Shubham Singh; Tamanna Singhdeo, An IoT-Enabled Predictive Alert and Humidity Monitoring Framework for Sustainable Digital Transformation in Smart Agriculture

M-57 Paper ID: IC2523 online

Minh Nguyen; Tien Nguyen; Thanh Le; Toan Nguyen
Revealing Performance–Latency–Sparsity Trade-offs in Spiking Neural Networks for Encrypted Traffic Classification

M-58 Paper ID: AH15222 online

Amatulraheem Alabassi
A Bio-Mechanical Analysis of Wired Sternal Fixation Augmented with Full and Partial Coverage of Bio-Adhesive

M-59 Paper ID: IC2528 online

Nachiket Patel; Ruchika Dungarani; Dhruv Patel; Krishna Patel; Hrutwa Doshi
Blockchain-Backed Multimodal AI for Trustworthy Remote Monitoring

M-60 Paper ID: AH15217 online

Sahar Ahmadzadeh; Tariq Alsafi; Gayathri Karthick
IoT-Enabled Cold-Chain Monitoring for Temperature-Sensitive Healthcare Products

M-61 Paper ID: M-61 Paper ID: AH15211 online

Junseo Park
Evaluating Explanation Reliability in ICU Mortality Risk Prediction

M-62 Paper ID:

Parallel Session 11: August 22, 2026

Day 2 12:00-13:45 – Room E303

Dr. Sherif Abdelhamid
Session Chair

Dr. Sana Jamil
Session Co-Chair

Location: Room E303
Time: 11:45-13:30
Vancouver (GMT-7)

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M-63 Paper ID: IC25124 online

Yusuf Yudhistira Perdana, Nazeer Mohammad
Assessing LLM Trustworthiness Using User-Centric Confidence Estimation and Explainable Decision Support Systems

M-64 Paper ID: IC256 online

Victor Okorie; Zeinab Teimoori
Intelligent Transportation System Charging Infrastructure: Standards Analysis

M-65 Paper ID: AH15199 in-person

Mohammad Alghazo
The Relationship Between Generative AI Usage and Executive Functioning in Adolescents

M-66 Paper ID: IC2553 in-person

Mazyar Zahedi-Seresht; Olfat Ganji Bidmeshk; Shahrzad Khosravi
AI Driven Manufacturing Supply Chain Optimization: A Maturity Contingent KPI Framework

M-67 Paper ID: IC2579 online

Muhammad Zain
Explainable Self-Reflective Large Language Models for Offensive Language Detection in Low-Resource Code-Mixed Languages

M-68 Paper ID: IC2574 online

Pius Fehintoluwa A.; Chanchal Jain; Fahimeh J.; Michael H.; Nitish C., xRAG: A Non-Generative Retrieval-Augmented Classification Framework for Source-Attributed ESG Indicator Mapping

M-69 Paper ID: IC25116 in person

Fitri Antoni; Mohsen GhodratVidhi Thakkar, The State of Artificial Intelligence Research in Clinical Practice: A Systematic Review

M-70 Paper ID:

Parallel Session 12: August 22, 2026

Day 2 12:00-13:45 – Room E304

Dr. Sherry Abdellatif
Session Chair

Dr. Sarfraz Shafiq
Session Co-Chair

Location: Room E303
Time: 11:45-13:30
Vancouver (GMT-7)

Online Teams Link

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M-71 Paper ID: IC2550 online

Nisha Puthiyedth, Vaibhav Sharma
A Review of Machine Learning Approaches for Antimicrobial Resistance Analysis in Beef Cattle Systems

M-72 Paper ID: AH15179 online

Anushree Bhople
Elevating Local Pharmacy Leadership: An Administrative Needs Pilot

M-73 Paper ID: IC2530 online

Jaspreet Kaur; Ibrahim Salman
AI-Driven Self-Healing Wireless Sensor Networks for Resilient Healthcare Monitoring during Disasters

M-74 Paper ID: IC2555 in-person

Shireen Al-Hourani; ShahinazHanem (Sherry) Abdellatif
Governing AI-Enabled Sustainable Healthcare Supply Chains: A Multi-Level Risk and Governance Framework

M-75 Paper ID: AH1599 online

Haoran He; Yan Song, Video-Based Yoga Quality Assessment Using an Unsupervised BiLSTM Autoencoder with Temporal Attention

M-76 Paper ID: IC25131 in-person

Abdul Hadi Shaikh
Building Software by Non-programmers in the Age of Generative & Agentic AI An Intuitive Framework

M-77 Paper ID: IC25106 online

Muhammad Babar; Rafia M; Muhammad D.A.A; Hafiz S.M.B; Muhammad B.; Mahboob U.H., A Machine Learning-Based Early Detection of Tuberculosis (TB) Co-Infection in Human Immunodeficiency Virus (HIV) Patients

M-78 Paper ID: IC25128 online

Haniya Subhan, Leading Ethically in AI Integrated K–12 Classrooms: A Servant-Leadership Framework for Creativity and Problem-Solving

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