

IEMIS 2026

The 4th International Conference on Emerging Technologies in Data Mining and Information Security

Organised by SMART SOCIETY, CANADA

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10th – 12th August 2026

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Meeting link:

<https://us06web.zoom.us/j/4897406939>

Meeting ID: 489 740 6939

All the timings are given in Pacific Daylight Time (PDT, UTC-07)

TECHNICAL SCHEDULE

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DAY 1: 10th August 2026 (Monday)

TIME	PROGRAMME
9:30 AM – 10:00 AM	INAUGURATION
10:00 AM – 12:30 PM	KEYNOTE SESSION: KEYNOTES 1, 2
12:30 PM – 1:30 PM	BREAK
1:30 PM – 3:00 PM	SESSION 1: INFORMATION SECURITY, DIGITAL FORENSICS AND THREAT INTELLIGENCE
3:00 PM – 3:30 PM	BREAK
3:30 PM – 5:00 PM	SESSION 2: BLOCKCHAIN, QUANTUM AI AND SECURE IoT FOR DEFENCE APPLICATIONS

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KEYNOTE SESSION [DAY 1: 10th August 2026] [<https://us06web.zoom.us/j/4897406939>]

TIME	NAME OF THE EVENT
10:00 AM – 11:00 AM	KEYNOTE 1 — KEYNOTE ADDRESS BY MR. WILLIAM ARENDS Software Engineer Advisor, Macon, Missouri, USA TITLE OF TALK: From Studio to Swarm: Two Architectures for Multi-Agent Systems
11:15 AM – 12:15 PM	KEYNOTE 2 — KEYNOTE ADDRESS BY PROF. ROLF DRECHSLER University of Bremen, Germany & Director, DFKI (German Research Center for Artificial Intelligence) TITLE OF TALK: Generative AI in Research and Education: Productivity, Abstraction, and Responsibility
12:30 PM – 1:30 PM	BREAK

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SESSION 1: INFORMATION SECURITY, DIGITAL FORENSICS AND THREAT INTELLIGENCE

SESSION CHAIR: Dr. ATISHAY JAIN

SESSION TIME: 1:30 PM – 3:00 PM (DAY 1: 10th August 2026)

[<https://us06web.zoom.us/j/4897406939>]

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS
1:30 PM – 1:45 PM	1571287371	M-FENCE: A Multimodal Forensic Intelligence Framework for Automated Evidence Correlation and Explainable Cyber Threat Attribution	Nor Shamshillah Kamarzaman; Mohsen Mohamad Hata; Noormadinah Allias; Fakariah Hani Mohd Ali; Mohd Yusof Darius; Azlin Binti Ramli
1:45 PM – 2:00 PM	1571293588	Adaptive Emotional Manipulation Attacks: A White-Box Security Evaluation of Facial Emotion Recognition Systems	Atrima Bhattacharyya; Shirsha Samanta; Saswati Metya
2:00 PM – 2:15 PM	1571294412	Deepfake Detection Using a Temporal-Spatial Attention Hybrid Network with Frequency-Domain Enhancement	Ronald James; Smritikana Chatterjee; Sailaj Shyam; Purbasa Seal; Rohan Das; Monalisha Mukherjee; Anisha Pattanayak; Akansha Singh; Priyam Chakraborty
2:15 PM – 2:30 PM	1571321635	Testing Broken Windows Theory: A Spatiotemporal Analysis of Crime and Disorder	Pablo Silva Norena; Andrew J. Park; Patricia L. Brantingham
2:30 PM – 2:45 PM	1571318247	The Quantization Latency Paradox in Edge AI: Multivariate Time-Series Anomaly Detection for Network Logs	Sang Nguyen Minh; Van Vo; Lam Nguyen Ngoc; Thiet Thi Pham
2:45 PM – 3:00 PM	Chair's summing-up & session feedback		

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SESSION 2: BLOCKCHAIN, QUANTUM AI AND SECURE IoT FOR DEFENCE APPLICATIONS**SESSION CHAIR: Dr. Debasish Bhattacharjee****SESSION TIME: 3:30 PM – 5:00 PM (DAY 1: 10th August 2026)** [<https://us06web.zoom.us/j/4897406939>]

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS
3:30 PM – 3:45 PM	1571327351	Development of a Data-Driven Electrical Energy Theft Detection Model Using Household Energy Data and Machine Learning Algorithms	Ibrahim M. Abdullahi; Danlami Malilki; Musa Mohammed Abdullahi; James Agajo; Ademoh Agbogunde Isah; Olayemi Mikail Olaniyi; Idris Dauda; Ahmad Sadiq Abubakar; Michael Abogunde Akogbe
3:45 PM – 4:00 PM	1571294655	Blockchain-Powered AI Swarm Drones for Next-Gen Defense Operations	Ritu Chatterjee; Sourav Mahapatra; Shreyasree Mete; Tushit Chakraborty; Abhishek Dutta; Shreshtha Saha; Shivam Vishwakarma
4:00 PM – 4:15 PM	1571321321	The Discipline of Reason: Building Evidence-Based Intelligent Systems for Commerce	Soumyajyoti Bhattacharya; Srishti Rawal
4:15 PM – 4:30 PM	1571294270	Quantum AI for Predicting and Neutralizing Cyber-Physical Attacks on Military IoT Networks	Bhuban Mondal; Arijit Kumbhakar; Priyanka Yadav; Swarnadip Chakraborty; Alex Wheeler; Sahid Ankan Layek; Ayesha Arshad; Ankana Mondal; Madhurima Bag
4:30 PM – 4:45 PM	1571293547	A Hybrid Blockchain-Integrated Random Forest Framework for Secure and Scalable IoT Threat Mitigation	Suriti Bhunia; Sayan Saha; Purbasha Singha Roy; Sandip Dutta; Suvadip Jalua; Yasir Jahangir Ansari; Shamik Sarkar; Debasish Pal
4:45 PM – 5:00 PM	Chair's summing-up & session feedback		

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DAY 2: 11th August 2026 (Tuesday)

TIME	PROGRAMME
9:30 AM – 10:00 AM	ASSEMBLY
10:00 AM – 12:15 PM	KEYNOTE SESSION: KEYNOTES 3 AND 4
12:30 PM – 1:30 PM	BREAK
1:30 PM – 3:00 PM	SESSION 3: AI IN MEDICAL DIAGNOSTICS AND HEALTHCARE INFORMATICS
3:00 PM – 3:30 PM	BREAK
3:30 PM – 5:00 PM	SESSION 4: INTELLIGENT SYSTEMS, SOFTWARE ENGINEERING AND EDGE AI

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KEYNOTE SESSION [DAY 2: 11th August 2026] [<https://us06web.zoom.us/j/4897406939>]

TIME	NAME OF THE EVENT
10:00 AM – 11:00 AM	KEYNOTE 3 — KEYNOTE ADDRESS BY DR. ANIRBAN MITRA (Senior Member - IEEE & ACM) Faculty – Department of Software Engineering School of Computing and Information Technology Eastern International University, Vietnam TITLE OF TALK: The Network Never Sleeps: Predicting Social Engineering Risk in Evolving Social Graphs
11:15 AM – 12:15 AM	KEYNOTE 4 — KEYNOTE ADDRESS BY DR. BIPLAB MAHATO Senior Engineer, Hon Hai (Foxconn) Technology Group Hsinchu, Taiwan TITLE OF TALK: AI in Advanced Semiconductor Manufacturing.
12:30 PM – 1:30 PM	BREAK

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SESSION 3: ARTIFICIAL INTELLIGENCE IN MEDICAL DIAGNOSTICS AND HEALTHCARE INFORMATICS			
SESSION CHAIR: Dr. Snehashish Bhattacharjee			
SESSION TIME: 1:30 PM – 3:00 PM (DAY 2: 11th August 2026) [https://us06web.zoom.us/j/4897406939]			
TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS
1:30 PM – 1:45 PM	1571318242	AMetaNGCF: Density-Adaptive Social Recommendation	Lam Nguyen Ngoc; Van Vo; Sang Nguyen Minh; Thiet Thi Pham
1:45 PM – 2:00 PM	1571297267	A Metaverse-Enabled XR-AI Collaborative Framework for Decentralized Malignant Skin Cancer Research and Clinical Trials	Mou Saha; Soumyadeep Kundu; Aishika Roy Chowdhury; Amartya Chakraborty; Shrabanti Brahma; Swapnanil Sarkar; Indranil Sarkar; Arsh Ahmad; Aniket Kundu
2:00 PM – 2:15 PM	1571321638	Detecting Urban Land-Use Boundaries with Persistent Homology: A Frontage-Based Construction and Its Relation to Crime	Tanya Aggarwal; Andrew J. Park; Patricia L. Brantingham
2:15 PM – 2:30 PM	1571297779	Intelligent Virtual Mentors and 3D Brain Simulations: AI in Metaverse-Based Neurosurgical Education	Bhaswati Das; Sukanya Maiti; Pratik Mandal; Disha Bisai; Krishnendu Jana; Soumyajit Mondal; Aiyush Dhar
2:30 PM – 2:45 PM	1571293585	Quantum Intelligence in Medical Diagnostics: Leveraging Quantum Mathematics for Nonlinear Feature Correlation and Enhanced Diabetes Prediction	Krittika Mondal; Adrita Chatterjee; Subhajit Setua; Anwesha Kumar; Bedabrata Patra; Aniruddha Kumar Dutta; Kausik Saha; Piyasa Das; Ankita Choudhury
2:45 PM – 3:00 PM	Chair's summing-up & session feedback		

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SESSION 4: INTELLIGENT SYSTEMS, SOFTWARE ENGINEERING AND EDGE AI**SESSION CHAIR: Dr. Anirban Das****SESSION TIME: 3:30 PM – 5:00 PM (DAY 2: 11th August 2026)** [<https://us06web.zoom.us/j/4897406939>]

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS
3:30 PM – 3:45 PM	1571293608	Integrating Machine Learning Techniques for Automated Tuberculosis Detection and Prognosis	Mousona Acharjee; Sristi Shaw; Kalpak Chakraborty; Arindam Dey; Anwesha Basak; Abhraneel Dalui; Sneha Roy; Atreyee Chakraborty; Surojit Ghosh
3:45 PM – 4:00 PM	1571313259	TRIZ-REQ: An LLM-Augmented Decision-Support Framework for Automated Requirement Conflict Resolution in Software Engineering	Van Vo; Sang Nguyen Minh; Lam Nguyen Ngoc
4:00 PM – 4:15 PM	1571294568	Integrating Dark Web Mining and Predictive Modeling to Anticipate and Disrupt Cyber Terrorist Activities	Gandharbi Ghosh; Pranojjal Roy; Gagan Paul; Sayantan Chakraborty; Tirtharaj Das; Ria Dutta; Roshmita Choudhury; Sagnik Koley; Sudip Singha
4:15 PM – 4:30 PM	1571313636	Generative AI in Research and Education: Productivity, Abstraction, and Responsibility	Rolf Drechsler
4:30 PM – 4:45 PM	1571327509	Toward Sustainable Mechatronics: A Neuro-Symbolic Cognitive Twin Framework for Energy-Efficient Adaptive Actuation	Astitva Gourav; Madhuri Karnik; Jahanara Shaik; Gaikwad Vidya Shrimant; Priti Balasaheb Warungse; Rupalee Rsambekar; Madhavi Sagar Nikkam; Vaishali Mishra; Disha Wankhede; Sonali Sethi; Viraj Makwana
4:45 PM – 5:00 PM	Chair's summing-up & session feedback		

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DAY 3: 12th August 2026 (Wednesday)

TIME	PROGRAMME
9:30 AM – 10:00 AM	ASSEMBLY
10:00 AM – 12:30 PM	KEYNOTE SESSION: KEYNOTES 5 AND 6
12:30 PM – 1:30 PM	BREAK
1:30 PM – 3:00 PM	SESSION 5: SPATIAL ANALYTICS, URBAN COMPUTING AND DIGITAL HERITAGE
3:00 PM – 3:30 PM	BREAK
3:30 PM – 4:00 PM	VALEDICTORY SESSION, BEST PAPER AWARDS & VOTE OF THANKS

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KEYNOTE SESSION [DAY 3: 12th August 2026] [<https://us06web.zoom.us/j/4897406939>]

TIME	NAME OF THE EVENT
10:00 AM – 11:00 AM	KEYNOTE 5 — KEYNOTE ADDRESS BY DR. KOYEL DEY Senior Process Engineer, GIS, FOXCONN, Taiwan (R.O.C.) Formerly NSTC Postdoctoral Fellow, Ministry of Education, Taiwan <i>Dual Ph.D. — National Tsing Hua University, Taiwan and Indian Institute of Technology (IIT) Madras, India</i> TITLE OF TALK: Listening to Tumour Metabolism: Nano sensors for 3D Cancer Models
11.15 AM – 12.15 AM	KEYNOTE 6— KEYNOTE ADDRESS BY MS. APARAJEETA GUHA Biomedical Data Scientist, Research Associate Department of Neurosurgery & Biomedical Imaging Research Institute Cedars-Sinai Medical Center, Los Angeles, California, USA TITLE OF TALK: Decoding Biology with AI: Turning Complex Data into Medical Discovery
12:30 PM – 1:30 PM	BREAK

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SESSION 5: SPATIAL ANALYTICS, URBAN COMPUTING AND DIGITAL HERITAGE**SESSION CHAIR:** *Dr. Sudipta Basu Pal***SESSION TIME: 1:30 PM – 3:00 PM (DAY 3: 12th August 2026)** [<https://us06web.zoom.us/j/4897406939>]

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS
1:30 PM – 1:45 PM	1571294580	Satellite Imaging and AI in Quantum-Assisted Threat Detection for National Security	Md Faishal Anis; Puja Mishra; Kunal Singh; Harshita Dujari; Arijit Mallick; Sourav Mandal; Tathagata Mahapatra; Arnab Mondal; Sourin Mondal
1:45 PM – 2:00 PM	1571294675	AI-Driven Cultural Heritage Preservation: Safeguarding History Through Intelligent Digitization	Adway Mohan Rakshit; Sarbartha Chakraborty; Sourik Sarkar; Shouryaban Samanta; Gaurav Raj; Arpan Malakar; Arpan Das; Koustav Barman; Debomita Chakladar
2:00 PM – 2:15 PM	1571321484	Noise Penetration Through the Built Environment as a Predictor of Urban Crime: A Spatial Analysis of London	Dave Rutatika Imanzi; Andrew J. Park; Patricia L. Brantingham
2:15 PM – 2:30 PM	1571327451	Design and Simulation of an Optimised Adaptive Neuro-Fuzzy Inference System for Heterogeneous Multi-Seed Precision Planting	Ibrahim M. Abdullahi; Ayuba Audu Balami; Danlami Malilki; Olayemi Mikail Olaniyi; Peter Aba Idah; Ibrahim Abubakar
2:30 PM – 2:45 PM	1571306175	A Proactive Computing Method to Improve the Security of Autonomous Vehicles	Brook Abegaz
2:45 PM – 3:00 PM	<i>Open discussion & chair's summing-up</i>		

3:30 PM – 4:00 PM**VALEDICTORY SESSION, BEST PAPER AWARDS & VOTE OF THANKS** [<https://us06web.zoom.us/j/4897406939>]**All the timings are given in Pacific Daylight Time (PDT, UTC-07)**