

ICITA2024
CONFERENCE

18th International Conference on Information Technology and Applications

17-19 October 2024
Sydney, Australia

Programme 17-19th October

Hybrid (In-person + Online)

Venue: Hilton, 488 George St, Sydney NSW 2000, Australia

Map: <https://maps.app.goo.gl/TtL3YZ1mpyQkBfdY8>

Online Participation : Google Meet

Programme Overview

Day 1 – 17th October (In-person only)

1500 - 1700

Registrations

1700 – 2000

Welcome Reception at Marble Bar Hilton Hotel Sydney

Day 2 – 18th October (In-person only)

0900 - 1000

Keynote Speakers

1000 – 1050

Session 1

Tea Break

1110 – 1230

Session 2

Lunch

1330 – 1510

Session 3

Tea Break

1525 – 1630

Session 4

1800 – 2030

Gala Dinner Reception (In person)

Day 3 – 19th October (ONLINE)

1000 - 1700

Parallel Online Sessions (Gulf Standard Time)

Day 1 - 17th October 2024 (In person Programme ICITA 2024)

Friday 17 th October (In person only)	
1500 – 1700	<p>Registrations Go to Level 2 – in front of Rooms 6</p> <p>Venue: Hilton, opposite the Queen Victoria Building 488 George St, Sydney NSW 2000, Australia https://maps.app.goo.gl/gFJsfT1TF3n2KU5T8 Website: http://www.hiltonsydney.com.au/</p>
1700 – 2000	<p>Welcome Reception Marble Bar below the Hilton Hotel, Sydney</p>

Day 2 - 18th October 2024 (In person Programme ICITA 2024)

Day 2 - Friday 18 th October (In person)	
Access Link	In person
Venue	Go to Level 2 – in front of Rooms 6 Hilton, 488 George St, Sydney NSW 2000, Australia https://maps.app.goo.gl/gFJsfT1TF3n2KU5T8
0900 – 0920	Opening Keynote and country report: David Tien, Charles Sturt University, Sydney Australia
0920 – 1000	Keynote 1: Dr Xianzhi Wang, University of Technology, Sydney Australia
Session 1	1000 – 1050
1000 – 1015	1.1 Auditing Windows Bluetooth Security at the Application Layer <i>Kade A Price (University of New South Wales)*; Tim Lynar (University of New South Wales)</i>
1015 – 1030	1.2 The Moderating Role of Risk Aversion in an Extended UTAUT Cryptocurrency Adoption Model <i>Tan, Su-Mae; Liew, Tze Wei*; Khan, Mohammad Tariqul Islam ; Teo, Siew Chein; Lee, Yi Yong ; Lim, Zi Chi</i>
1030 – 1050	1.3 Audio-Visual Features-based Framework for Advertisement Detection from Sports Videos <i>Jeribi, Fathe*; Javed, Ali; Toheed, Abeer; Alhazmi, Abdulrahman H; Alzoubi, Malek; Tahir, Dr. Ali</i>
1050 – 1110	Tea Break
Session 2	1110 – 1230
1110 – 1125	1.4 Context-aware Medical Question Answering: An Extended Transformers-Based Approach with BioBERT Encoding for Restricted Domain Queries <i>Alarfaj, Fawaz*</i>
1125 – 1140	1.5 Play the Second Fiddle: Examining the Role of Innovation in Knowledge Management-Operational Performance Relationship <i>Darmawan, Baziedy A*; Anugrahani, Rizqa Mutiara Dinza</i>
1140 – 1155	1.6 A Study on Procrastination Through Sentiment Analysis of Social Media Data Using NLP Techniques <i>Noor, salma*; Khan, Rakhum ; Anwar, Sajid; Majid, Sakina; Gul, Ushna; Ali, Sajjad; Qayum, Fawad Dr</i>
1155 – 1210	1.7 Factors Affecting User Perception and Usage of Voice Search <i>Rattanawicha, Pimmanee*; Jirunthon, Paranee</i>
1210 – 1230	1.8 From Human Touch to AI: Student Perspectives on the Digital Transformation in Education <i>Setyaning, Alldila Nadhira Ayu*</i>

1230 – 1330	Lunch break
Session 3	1330 – 1510
1330 – 1350	1.9 Revisiting The Effectiveness of Moodle as The Most Used Learning Management System <i>Nur Fadhilla, Hanifa*</i>
1350 – 1410	2.0 Driving Innovation through Knowledge Management in Supply Chains: a study empiris at SMEs <i>Nursyamsiah, Siti*; Isfianadewi, Dessy; Ganis Lano Vara, Muhammad</i>
1410 – 1420	2.1 The Impact of Influencer Attributes on Consumer Purchasing Intentions: A Study of Indonesian Consumers in Social Media Influencer Marketing for Erigo Brands <i>Hartono, Arif*</i>
1420 – 1440	2.2 Revolutionizing Commerce: The Effects of Payment Technology Innovation on Conventional Transactions <i>Isfianadewi, Dessy*; Nursyamsiah, Siti</i>
1500 – 1525	Tea Break
Session 4	1525 – 1630
1525 – 1540	2.3 Deceive, Disrupt, Disclose: The 3D Model for AI Security <i>Farlow, Harriet E*; Sadhani, Tania; Lynar, Tim; Garratt, Matthew; Mount, Gavin</i>
1540 – 1555	2.4 Forex Price Prediction: A Multi-Model Approach Integrating Sentiment Analysis Using LLMs with LSTM, XGBoost, Transformer Models <i>Dave, Yash; Varastehpour, Soheil; Shakiba, Masoud Dr*</i>
1555 – 1610	2.5 Predicting New Zealand's Stock Market Trends: Combining Sentiment Analysis and Deep Learning <i>Trehan, Mohita; Varastehpour, Soheil; Shakiba, Masoud Dr*; Ramirez Prado, Guillermo; Barmada, Bashar</i>
1610 – 1640	Closing – Dr David Tien
1800 – 2030	Conference Gala Dinner: Location: Spicy Joint Restaurant, Sydney Address: Level 4/25-29 Dixon St, Haymarket NSW 2000 Maps: https://maps.app.goo.gl/8wnwkYbE63Ge3EM29 website: https://spicyjoint.com.au/ Please meet in the front of Room 6, Level 2 Hilton Hotel at 1800 pm

--	--

Day 3 - 19th October 2024 (Online Programme ICITA 2024)

All timings are in Dubai/UAE time (Check current time: https://www.timeanddate.com/worldclock/united-arab-emirates/dubai-emirate)			
Day 2 – Saturday 19 th October (Online)			
	Parallel session 1 (Online)	Parallel session 2 (Online)	Parallel session 3 (Online)
Access Link	Online Link 1 ICITA'24 Saturday, October 19 · 9:00 – 10:00am Time zone: Asia/Dubai Google Meet joining info Video call link: https://meet.google.com/fnx-kydf-qki	Online Link 2 ICITA'24 Saturday, October 19 · 9:00 – 10:00am Time zone: Asia/Dubai Google Meet joining info Video call link: https://meet.google.com/rtv-nyga-bbk	Online Link 3 ICITA'24 Saturday, October 19 · 9:00 – 10:00am Time zone: Asia/Dubai Google Meet joining info Video call link: https://meet.google.com/dix-bxxg-drn
Session Chair	Session Chair: Dr. Adnan Amin	Session Chair: Mr. Omar Bin Samin	Session Chair: Inam ul Haq
09:00 – 09:10	1.1 Unveiling the Hidden Pandemic of IoT Malware with Biological and Health Approaches <i>Craufurd-Hill, Jasmin*; Lynar, Tim; Kasmarik, Kathryn; Kaehler, Benjamin</i>	2.1 Comparison of Machine Learning Models for Early Prediction of Diabetes with LIME Interpretability <i>Chakraborty Shruti, Abanti; Kamal, Marufa; Rifat, Rakib Hossain; Rhythm, Ehsanur Rahman; Mehedi, Md Humaion Kabir*; Rasel, Annajiat Alim</i>	3.1 Pattern Recognition in Disaster Response: Leveraging Machine Learning for Twitter Analysis <i>Hossain, Md Impreeaj*; Mikdad, Musaib Ibn Habib; Hossain, Sk Jamil; Haque, Ridwanul; Alif, Md Ashraful Kabir; Rhythm, Ehsanur Rahman; Rasel, Annajiat Alim</i>
09:10 – 09:20	1.2 TTL: Transformer and Transfer Learning Approach To Detect Sunflower Disease <i>Sinthia, Afsana Kabir; Mozumder, Nisat Islam; Islam, Md. Tariqul Islam; Mehedi, Md Humaion Kabir*; Rasel, Annajiat Alim; Haque, Munima</i>	2.2 NLP on Text Messages using Sentimentality Investigation <i>Singh, Khushwant; Yadav, Mohit; Moreira, Fernando*</i>	3.2 Enhancing Seabass Detection in Aquaculture: A Step Towards Automated Behavioural Analysis using AI <i>Sharifonnasabi, Ghazalnaz*; Nallarasan, NitheeshKumar; Thanh Long, Nguyen; Makhdom, Iman</i>

09:20 – 09:30	1.3 Usability Assessment of Virtual Reality Applications to Support the Care of Older Adults: A Scoping Review <i>Bastardo, Rute; Pavão, João; Rocha, Nelson P*</i>	2.3 Early Detection of Cardiovascular Diseases <i>Turcanu, Adrian*; Raj, Anshul</i>	3.3 Uddeshho: An Extensive Benchmark Dataset for Multimodal Author Intent Classification in Low-Resource Bangla Language <i>Faria, Fatema Tuj Johora*; Bin Moin, Mukaffi; Rahman, Md. Mahfuzur; Alam Lipson, Md Morshed; Fahim, Asif Iftekher; Hoque, Md Moinul</i>
09:30 – 09:40	1.4 Data-Driven Demand Forecasting in Fast Fashion Using Integrated Deep Learning Models <i>Guan, Yue*</i>	2.4 American Sign Language Recognition Using Deep Learning Models <i>Revankar, Gauri D*, Kumar S,</i>	3.4 Federated Learning For Intrusion Detection System: A Systematic Review <i>Alsad, Osama; Abu Al-Haija, Qasem*; Alnabhan, Mohammad</i>
09:40 – 10:00	Break		
Access Link	Online Link 1 ICITA'24 Session 2 Saturday, October 19 · 10:00 – 11:00am Time zone: Asia/Dubai Google Meet joining info Video call link: https://meet.google.com/wuk-gvsv-trs	Online Link 2 ICITA'24 Saturday, October 19 · 10:00 – 11:00am Time zone: Asia/Dubai Google Meet joining info Video call link: https://meet.google.com/yzw-fuus-vbr	Online Link 3 ICITA'24 Session 2 Saturday, October 19 · 10:00 – 11:00am Time zone: Asia/Dubai Google Meet joining info Video call link: https://meet.google.com/akd-tqmd-qbp
Session Chair	Session Chair: Dr. Adnan Amin	Session Chair: Mr. Omar Bin Samin	Session Chair: Mr. Inam Ul Haq
10:00 – 10:10	1.5 Research Challenges and Gaps on the Recent Advances in Animal Emotion Recognition <i>GaneshKumar, Vaishali; ., Vaisnavi*; Chakravarty K, Anirudh; Arya, Arti; R, Prema</i>	2.5 Human Resources Selection Through The PSI-SPOTIS Hybrid Modeling: Multi-criteria Analysis of Sellers for Technological Market <i>Oliveira, Patrícia; Moreira, Miguel Ângelo Lellis*; Costa, Igor; Pereira, Daniel; Gomes, Carlos Francisco Simões; Santos, Marcos</i>	3.5 Mathematical Optimization for Sustainable Urban Mobility: The P-Median Approach for Electric Vehicles (EVs) Charging Stations <i>Pereira Júnior, Enderson Luiz*; Veiga Gonçalves, David Anderson; Silva Oliviera,</i>

			<i>Fábio; Monteiro de Souza , Alexandre Augusto; Lopes Camargo, Cátia Elisabete ; Lima Cruz , Diego Junio; da Costa Gonçalves , André; dos Santos, Marcos</i>
10:10 – 10:20	1.6 Multi-Ideology Dataset for detecting online extremism in Kazakh language <i>Bolatbek, Milana* ; Mussiraliyeva, Shynar; Baisylbayeva, Kymbat; Yeltay, Zhastay</i>	2.6 Framework Proposal for Access to Rural Credit Through The AHP-Gaussian Method <i>Kojima, Emerson; Andrade, Grasielly; de Oliveira, Luana de Azevedo* ; Pereira Júnior, Enderson Luiz; dos Santos, Marcos; Gomes, Carlos Francisco Simões; Pedrozo, Daniel; Junior, Célio</i>	3.6 Integrating Multi-Granularity Text Semantics into Dense Math Information Retrieval via Domain Adaptation <i>Wang, Jingyi*</i>
10:20 – 10:30	1.7 CONTAINER VULNERABILITY EXPLOITATION & MITIGATION IN MICROSERVICES DEPLOYED IN EDGE USING RSDQL <i>Kumar D P, Bharath* ; Priyan S, Sri ; Aditya Giri, Jyotir; R, Aishwarya; V, Dr. Vetriselvi</i>	2.7 Assessing the Level of Toxicity Against Distinct Groups in Bangla Social Media Comments: A Comprehensive Investigation <i>Bin Moin, Mukaffi* ; Debnath, Pronay; Rifa, Usafa Akther ; Bin Anis, Rijeet</i>	3.7 Automated Overtaking Assistance System A Real-Time Approach Using Deep Learning Techniques <i>Charu, Kritry Hauqe; Nafis, fardin zubair* ; moonjarin, musarrat; Sawly, Suraya Jahan; Rhaman, Md. Khalilur</i>
10:30 – 10:40	1.8 Large Language Model-based Network Intrusion Detection <i>Davey, Dhruv H* ; Karim, Kayvan; Hassen, Hani Ragab; BATATIA, Hadj</i>	2.8 Detection of Glaucoma Using OCT Images <i>Krishnakumar, Asmitha* ; Soobhany, A. Ryad</i>	3.8 NetFlow Based Network Intrusion Prevention System Using Machine Learning <i>Moses, Jacinth Daniel* ; Karim, Kayvan; Ragab, Hani Hassen; BATATIA, Hadj</i>
10:40 – 11:00	Virtual Tea/Coffee break		
Access Link	Online Link 1 ICITA'24 Session 3 Saturday, October 19 · 11:00am – 12:00pm Time zone: Asia/Dubai Google Meet joining info	Online Link 2 ICITA'24 Saturday, October 19 · 11:00am – 12:00pm Time zone: Asia/Dubai Google Meet joining info Video call	Online Link 3 ICITA'24 Session 3 Saturday, October 19 · 11:00am – 12:30pm Time zone: Asia/Dubai

	Video call link: https://meet.google.com/nzt-vafj-khe	link: https://meet.google.com/rwu-jofv-aae	Google Meet joining info Video call link: https://meet.google.com/apz-auwh-anc
Session Chair	Session Chair: Dr. Adnan Amin	Session Chair: Mr. Omar Bin Samin	Session Chair: Mr. Inam ul Haq
11:00 – 11:10	1.9 Interaction Design Strategies for ADHD Learning Attention - A Review <i>Riaz, Hadia*; Ullah, Abrar; Claudio, Zito; Soobhany, A. Ryad</i>	2.9 StorySculptor: Offering a personalised text-based gaming experience using Large Language Models (LLMs) <i>Tamton, Nura Muhammed Riaz*; Karim, Kayvan; Elgayar, Neamat</i>	3.9 Beyond Connectivity: Investigating the Temperature Sensing Capacity of Modern Wi-Fi <i>Muhammad, Furqan*; Shaikh, Talal</i>
11:10 – 11:20	2.0 A Hybrid Approach to Music Recommendations for Improving ADHD Productivity <i>Forawi, Tamier*; Ullah, Abrar</i>	3.0 StoryPlay: End-to-End 8-Bit Game Level Generation Using Large Language Models <i>Chitnis, Gaurang Chetan*; Shaikh, Talal</i>	3.10 Deep Learning Harmonies: Unraveling the Impact of Music on Brain Health and Disease Symptoms <i>Siddiqi, Muhammad Hameed*</i>
11:20 – 11:30	2.0a Predicting Commodity Prices in Futures Market Using Machine Learning <i>Turcanu, Cristina N*; Joseph, Kevin</i>	3.0a Face Sketch Image Generation from Facial Attributes using StyleGAN2 <i>Khan, Hana S; Uddin, Md Azher*</i>	3.11 Integrating External Tools with Large Language Models (LLM) to Improve Accuracy <i>BATATIA, Hadj*; Nikitan, Nripesh; SANTHOSHKUMAR, Arunima</i>
11:30 – 11:40	2.0b Information Technology at the University of Turin: A disruptive method for exams with the Safe Exam Browser. <i>Presutti, Katia*; Ballesio, Elisa; Bosco, Marina; Ferrero, Paolo; Ghio, Tommaso; Giraudo, Cristina; Machetta, Stefano; Protopapa, Simona; Salerno, Gianluca; Santantonio, Marco</i>	3.0b Deep Spatiotemporal Network Based Spontaneous Macro and Micro Facial Expression Recognition <i>Tahir, Mohamed; Uddin, Md Azher*; Joolee, Joolekha Bibi</i>	3.12 Enhanced KNN Imputation for Missing Data <i>E V, VEENA*; K P, Pushpalatha</i>

11:40 – 11:50	2.0c Bias Busters: Fair Text Generation with GPT-2 Md Nur Amin, Fatih Bayram, Alexander Jesser	3.0c A Deep Learning Approach for the Diagnosis of Bone Fractures using X-Ray Images <i>Alhwaiti, Yousef*</i>	3.13 Hyper-chaotic Nonlinear Artificial Hummingbird Algorithm <i>Zhang, Jilong*; Min, Rudong</i>
11:50 – 12:00	2.0d An Efficient Voice Replay Antispoofing Method <i>Aljasem, Muteb M*; Javed, Ali; Abouheaf, Mohammed; Mayyas, Mohammad</i>	3.0d Building a usability and accessibility evaluation method for small software development companies <i>Domínguez, Carlos; Collazos, Cesar A.; Agredo-Delgado, Vanessa; Moreira, Fernando*</i>	3.14 Transforming Gamification-Based Flipped Learning Models into BPMN 2.0 Models Using ATL: Mapping, Implementation, and Challenges <i>Jihed Hammami, Maha KHEMAJA, José Luis Sierra Rodríguez</i>
12:00 – 12:10	Determinants of Mobile Banking Users at Bank Syariah Indonesia <i>Fajar Adi Nugroho, Rizqi, Hiidayat, Anas*; Supardin, Lalu</i>		

Conference Chairman's Message

Dear Colleagues

Welcome to the 12th International Conference on Information Technology and Applications. The conference is an annual event and is recognized as one of the major series of conferences in information technology (IT). The purpose of ICITA is to provide a platform for academics and engineers in all IT areas to meet, exchange ideas, and establish professional networks. It is a forum to focus on specific disciplinary research, as well as on multi-disciplinary studies. Personally, I believe that in order to achieve the recognition we deserve, IT professionals and academics have to go beyond narrowly defined subject areas and constantly acquire a global technical and social perspective. The uniqueness of ICITA is that it crosses narrowly defined subject areas and gathers researchers from not only technical areas, but also from social science areas.

ICITA continues to retain its tradition of high-quality conference and will open up an opportunity for academics and industrial professionals worldwide to exchange their knowledge of the state-of-the-art research and development in information technology and applications, and to establish and extend professional networks.

During the conference breaks, I hope conference delegates will enjoy Sydney – it is one of the best places to visit and to live in the world. It may remind conference delegates what life is really about.

Finally, I would like to wish you success in your technical presentations and social networking.

Sincerely yours,



Dr David Tien
ICITA 2024 Conference Chairman, Australia
IEEE Computer Society Area Director
(in charge of Australia and New Zealand)
Email: dtien@csu.edu.au



Dr Abrar Ullah
ICITA 2024 Conference Chairman
Associate Professor,
School of Mathematical and Computer Sciences,
Heriot-Watt University Dubai
Email: a.ullah@hw.ac.uk

