Program at a Glance

Day 1: Sunday, November 18, 2018	
Time	**Program**
09:00 – 12:15 **13:45 – 17:00**	Students' Poster Session, *Exhibition hall: G023*
08:00 – 16:00	Registration
Morning	
08:00 – 09:30	Welcome & Light Breakfast
09:30 – 10:00	Opening Ceremony, *Auditorium: G020*
10:00 – 11:00	**Keynote I**: AI, Blockchain and Edge Computing for Smart Cities and Smart Grids. **Juan Manuel Corchado**, Director - European IoT Digital Innovation Hub & Director - BISITE Research Group, University of Salamanca, Salamanca, Spain *Auditorium: G020*
11:00 – 11:15	Coffee break
11:15 – 12:15	**Keynote II:** Machine Learning as a Catalyst for Precision Health **Prof. Osmar Zaiane**, Director - Alberta Machine Intelligence Institute, Computer Science, University of Alberta. *Auditorium: G020*
12:30 – 13:30	Lunch
Afternoon	
13:30 – 15:15	**Tutorial I**: Boosting Visual Object Tracking Using Deep Features **Dr. Fahad Khan**, Lead Scientist at Inception Institute of Artificial Intelligence UAE, *Room: 1028*
13:30 – 15:15	**Paper Session D1S1**: Recent Trends in Security, *Room: 1027*
15:15 – 15:30	Coffee break
15:30 – 17:15	**Paper Session D1S2**: IOT Systems & Frameworks, *Room: 1028* **Paper Session D1S3**: Big Data and Cloud, *Room: 1027*

13th International Conference on Innovations in Information Technology (IIT'18)

20:00 – 22:00	Gala Dinner, Al Ain Palace Museum

Day 2: Monday, November 19, 2018

Time	Program
08:00 – 12:00	Registration
Morning	
08:00 – 08:30	Light Breakfast
08:30 – 09:30	**Keynote III:** Blockchains: Opportunities and Limitations **Prof. Abdelhakim Hafid**, Director - Network Research Lab, Research Fellow, CIRRELT, University of Montreal, Montreal, Canada *Auditorium: G020*
09:30 – 11:15	**Tutorial II:** Demystifying Geo.AI **Dr. Adel Bolbol Fernandez**, PhD in GeoInformatics Business Development Manager	Advanced Analytics, Esri *Room: 1028*
09:30 – 11:15	**Paper Session D2S1**: Machine Learning Applications, *Room: 1027*
11:15 – 11:30	Coffee break
11:30 – 13:00	**Paper Session D2S2**: Security Applications & Analysis, *Room: 1027* **Paper Session D2S3**: IOT Applications, *Room: 1028*
13:15 – 14:30	Lunch
Afternoon	
14:30 – 16:00	**Paper Session D2S4**: Blockchain & Cryptography, *Room: 1027* **Paper Session D2S5**: Machine Learning Reviews, *Room: 1028*

Technical Program

Day 1: Sunday, November 18th 2018

Opening Ceremony: 9:30 - 10:00
Auditorium: G020

Keynote I: AI, Blockchain and Edge Computing for Smart Cities and Smart Grids
Presenter: Juan Manuel Corchado, Director - European IoT Digital Innovation Hub & Director - BISITE Research Group, University of Salamanca, Salamanca, Spain
Time: 10:00 - 11:00
Room: Auditorium: G020

Keynote II: Machine Learning as a Catalyst for Precision Health
Presenter: Prof. Osmar Zaiane, Director - Alberta Machine Intelligence, Computer Science, University of Alberta, Canada
Time: 11:15 - 12:15
Room: Auditorium: G020

Poster Session
Time: 09:00 - 12:15, 13:45 – 17:00
Room: Exhibition Hall: G023

Tutorial I: Boosting Visual Object Tracking Using Deep Features
Presenter: Dr. Fahad Khan, Lead Scientist at Inception Institute of Artificial Intelligence, UAE
Time: 13:30 – 15:15
Room: 1028

D1S1: Recent Trends in Security

Session Chair: Dr. Yousef Al Hammadi (UAE University, United Arab Emirates)
Time: 13:30 – 15:15
Room: 1027

*Extending steganography payload capacity using the L*a*b* color space*	Mohamad Baziyad and Tamer Rabie (University of Sharjah, United Arab Emirates); Ibrahim Kamel (University of Sharjah & Concordia University, United Arab Emirates)
Highly Secured Implantable Medical Devices	Emad Hamadaqa (TU Braunschweig, Germany); Ahmad Abadleh (Mutah University, Jordan); Ayoub Mars (Technische Universität Braunschweig & Institut für Datentechnik und Kommunikationsnetze, Germany); Wael Adi (Technical University of Braunschweig, Germany)
Voronoi-based Secure kNN Queries over Spatial Data at the Cloud	Eva Habeeb Allah (University of Sharjah, United Arab Emirates); Ibrahim Kamel (University of Sharjah & Concordia University, United Arab Emirates); Ayesha M. Talha and Zaher Al Aghbari (University of Sharjah, United Arab Emirates)
Clone-Resistant Entities for Vehicular Security	Ayoub Mars (Technische Universität Braunschweig & Institut für Datentechnik und Kommunikationsnetze, Germany); Wael Adi (Technical University of Braunschweig, Germany)
Detection of Offensive Messages in Arabic Social Media Communications	Djedjiga Mouheb, Rutana Ismail, Shaheen Al Qaraghuli and Zaher Al Aghbari (University of Sharjah, United Arab Emirates); Ibrahim Kamel (University of Sharjah & Concordia University, United Arab Emirates)

D1S2: IOT Systems & Frameworks

Session Chair: Dr. Saad Harous (UAE University, United Arab Emirates)
Time: 15:30 – 17:15
Room: 1028

Proposals on IoT Communication through MQTT over L2 Network and their Performance Evaluation	Yuya Sasaki, Tetsuya Yokotani and Hiroaki Mukai (Kanazawa Institute of Technology, Japan)
An Affordable System for Remotely Monitoring Water Quality in Residential Water Tanks	Walid Ibrahim (UAEU, United Arab Emirates)
A Framework for a Cooperative UAV-UGV System for Path Discovery and Planning	Abderrahmane Lakas, Boumediene Belkhouche, Omar Benkraouda, Amin Shuaib and Hussain Alasmawi (UAE University, United Arab Emirates)
Integrating MOOC with Open Source Moodle: The New Direction of Learning at Sultan Qaboos University	Zuhoor Al-Khanjari and Iman Al-Kindi (Sultan Qaboos University, Oman)
Improved Power Control Approach for Better Data Throughput in CubeSat Nanosatellites	Fedeyya Almansoori, Prashanth Marpu and Zeyar Aung (Khalifa University of Science and Technology, United Arab Emirates)

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13th International Conference on Innovations in Information Technology (IIT'18)

D1S3: Big Data and Cloud

Session Chair: Dr. M. Adel Serhani (UAE University, United Arab Emirates)
Time: 15:30 – 17:15
Room: 1027

Migrating from SQL to NOSQL Database: Practices and Analysis	Mamoun Awad (UAEU, United Arab Emirates); Fatima Yassin (UAE University, United Arab Emirates)
STIDes Revisited - Tackling Global Time Shifts and Scaling	Marc Haßler, André Pomp, Christian Kohlschein and Tobias Meisen (RWTH Aachen University, Germany)
Big Data Quality Assessment Model for Unstructured Data	Ikbal Taleb (Concordia University, Canada); Mohamed Adel Serhani (UAE University, United Arab Emirates); Rachida Dssouli (Concordia University, Canada)
Cloud Automation to Run Large-Scale Quantum Chemical Simulations	Khaled Salah (Khalifa University of Science, Technology and Research (KUSTAR), United Arab Emirates); Ahmed Bentiba (University of Sharjah, United Arab Emirates); Nasser Alrayhi and Nayla El-Kork (Khalifa University, United Arab Emirates); Muhammad Ajmal Azad (Newcastle University & School of Computing, United Kingdom (Great Britain)); Zouheir Trabelsi (UAE University, United Arab Emirates)

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Gala Dinner: 20:00 – 22:00
Al Ain Palace Museum

13th International Conference on Innovations in Information Technology (IIT'18)

Day 2: Monday, November 19th 2018

Keynote III: Blockchains: Opportunities and Limitations
Presenter: Prof. Abdelhakim Hafid, Director - Network Research Lab, Research
Fellow, CIRRELT, University of Montreal, Montreal, Canada
Time: 08:30 – 09:30
Room: **Auditorium: G020**

Tutorial II: Demystifying Geo.AI
Presenter: Dr. Adel Bolbol Fernandez, PhD in GeoInformatics Business Development
Manager | Advanced Analytics, Esri, UAE
Time: 09:30 - 11:15
Room: **1028**

D2S1: Machine Learning Applications

Session Chair: Dr. Hany Alashwal (UAE University, United Arab Emirates)
Time: 09:30 – 11:15
Room: 1027

Dynamic Area Search with Shared Memory: A Meta-Framework to Improve Pathfinding Algorithms	Obada Al Zoubi (University of Oklahoma & Laureate Institute for Brain Research, USA); Mariette Awad (AUB, Lebanon)
Towards a Machine Learning Approach for Detecting Click Fraud in Mobile Advertizing	Mariette Awad (AUB, Lebanon); Riwa Mouawi, Ali Chehab, Imad H Elhajj and Ayman Kayssi (American University of Beirut, Lebanon)
Predicting Employee Attrition using Machine Learning	Sarah S. Alduayj (University of Birmingham, United Kingdom (Great Britain) & Saudi Aramco, Saudi

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	Arabia); Kashif Rajpoot (University of Birmingham, United Kingdom (Great Britain)
Preemptive Diagnosis of Chronic Kidney Disease Using Machine Learning Techniques	Reem A Alassaf, Khawla A Alsulaim, Noura Y Alroomi, Nouf S Alsharif and Mishael F Aljubeir (Imam Abdulrahman Bin Faisal University, Saudi Arabia); Sunday Olusanya Olatunji (Imam Abdulrahman Bin Faisal University, Dammam, Kingdom of Saudi Arabia, Saudi Arabia); Alaa Alahmadi, Mohammed Imran, Rahma Alzahrani and Nora Alturayeif (Imam Abdulrahman Bin Faisal University, Saudi Arabia)
A Reusable Software Architecture for Personalized Learning Systems	Heba Ismail (UAE University, United Arab Emirates); Boumediene Belkhouche (UAE University, United Arab Emirates)

D2S2: Security Applications & Analysis

Session Chair: Dr. Huwida E Said (Zayed University, United Arab Emirates)
Time: 11:30 – 13:00
Room: 1027

How Terrorist Groups Use Social Networking Media to Attract and Recruit New Members	Saad Abdullah Alsaleh, R (Hail Health Directory, Saudi Ministry of Health, Saudi Arabia)
Defense Analysis Against Store and Forward Distributed Reflective Denial of Service Attacks	Mohammad Fraiwan, Fida'a Al-Quran and Basheer N. Al-Duwairi (Jordan University of Science and Technology, Jordan)
IoT Applications: From Mobile Agents to Microservices Architecture	Tasneem Salah, M. Jamal Zemerly, Chan Yeun, Mahmoud Al-Qutayri and Yousof Al-Hammadi (Khalifa University, United Arab Emirates)
Trust-Based Data Controller For Personal Information Management	Upul Jayasinghe, Gyu Myoung Lee and Aine MacDermott (Liverpool John Moores University, United Kingdom (Great Britain))

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D2S3: IOT Applications

Session Chair: Dr. Abderrahmane Lakas (UAE University, United Arab Emirates)
Time: 11:30 – 13:00
Room: 1028

Effect on Detection and False Alarm Probabilities For Various Amplitude Modulation Techniques	Muhammad Fahad Nasir and Ahmad Ali (Bahria University, Islamabad, Pakistan); Wasib Javed (Bahria University, Islamabad, Pakistan); Asim Shah and Junaid Imtiaz (Bahria University Islamabad, Pakistan)
Building Scalable Mobile Edge Computing by Enhancing Quality of Services	Mayank Tiwary (SAP Labs Bangalore, India); Shanya Sharma and Pritish Mishra (SAP Labs, India); Hesham Elsayed (UAE University, United Arab Emirates); Mukesh Prasad and Deepak Puthal (University of Technology Sydney, Australia)
Navigation and Reading Assisting Wearable for Visually Impaired	Lochana Fernando (Sri Lanka Institute of Information Technology, Sri Lanka); Pradeepa Samarasinghe (SLIIT, Sri Lanka); Shalini Rupasinghe, Sanduni Fernando, Ishani Dolawatta and Nadeeka Athukorala (Sri Lanka Institute of Information Technology, Sri Lanka)
Distributed Rate and Congestion Control hybrid scheme for VANETs	Mustapha Taleb (University of Constantine 2 Abdelhamid Mehri, Algeria); Salah Merniz (University of Constantine, Algeria); Saad Harous (UAE University, United Arab Emirates)

D2S4: Blockchain & Cryptography

Session Chair: Dr. Ezedin Barka (UAE University, United Arab Emirates)
Time: 14:30 – 16:00
Room: 1027

Blockchain-based Ownership Management for Medical IoT (MIoT) Devices	Khaled Salah (Khalifa University of Science, Technology and Research (KUSTAR), United Arab Emirates); Mansoor Albloushi (Khalifa University, United Arab Emirates); Yousof Al-Hammadi (Khalifa University of Science Technology and Research, United Arab Emirates)
Blockchain for UAE Organizations: Insights from CIOs with Opportunities and Challenges	May Al Taei (Zayed University, United Arab Emirates); Nedaa Al Barghuthi (Higher Colleges of Technology & HCT, United Arab Emirates); Qusay Mahmoud (University of Ontario Institute of Technology, Canada); Sonia Al Barghuthi (Ministry of Finanace, United Arab Emirates); Huwida E Said (Zayed University, United Arab Emirates)
Analysis of Pipelined KATAN Ciphers under Handle-C for FPGAs	Palwasha Shaikh (American University of Kuwait & IEEE, Kuwait); Issam W. Damaj (American University of Kuwait, Kuwait)

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D2S5: Machine Learning Reviews

Session Chair: Dr. Amir Ahmad (UAEU, United Arab Emirates)
Time: 14:30 – 16:00
Room: 1028

Automatic Detection of Airline Ticket Price and Demand: A review	Juhar Abedlla (College of IT, UAEU, United Arab Emirates); Khaled Shuaib and Nazar Zaki (UAE University, United Arab Emirates)
Detecting Social Bots on Twitter: A Literature Review	Eiman Alothali (UAE University, United Arab Emirates); Nazar Zaki (UAE University, United Arab Emirates); Elfadil Mohammed (Al Ain University of Science and Technology, United Arab Emirates); Hany Alashwal (UAE University, United Arab Emirates)
Correlation Analysis of Popularity and Interoperability in Open Source Projects	Fatima Al Shamsi (Khalifa University, United Arab Emirates); Sarah Bamatraf, SARAH (Masdar, United Arab Emirates); Talal Rahwan (Masdar Institute of Science and Technology, United Arab Emirates); Zeyar Aung and Davor Svetinovic (Khalifa University of Science and Technology, United Arab Emirates)
A comparative analysis of evolutionary algorithms for the prediction of software change	Loveleen Kaur (Thapar Institute of Engineering and Technology); Ashutosh Mishra (Thapar University, India)