Day 1 - Saturday, 16-Nov-2019

	Inaugural & Keynote Session I *JS Auditorium*	
9:00 - 9:30	Arrival of Delegates and Guests	
9:30 - 9:35	Tilawat	
9:35 - 9:40	Welcoming Remarks by Executive Director IBA	
9:40 - 9:45	Overview of the conference by Chairperson CS	
9:45 - 10:25	Keynote 1: Smart City solutions for developing countries	Dr. Murtaza Haider
10:25 - 10:50	Refreshments	
	Keynote Session II *JS Auditorium*	
10:50 - 11:30	Keynote 2: How future networks will become proactive? - Machine learning to solve a pertinent engineering challenge	Dr. Muhammad Imran
11:30 - 12:10	Keynote 3: Improving IoT Cellular Networks using Machine Learning	Dr. Adnan Noor Mian
	Tutorial I *Lab 3 (Aman Tower, 3rd floor)*	
12:15 - 1:30	Dr. Bilal Khaliq Simple to Advanced Forecasting Methods Application to Industry Problems	
1:30 - 2:30	Prayers / Lunch	
	Technical Papers Session I - Data Science *Lecture Hall A (Aman Tower, 12th floor)* *Session Chair: Dr Shahid Shaikh*	
2:30-2:50	Performance Analysis of ECG Big Data using Apache Hive and Apache Pig	Mudassar Ahmad, Safina Kanwal, Marium Cheema, and Muhammad Asif Habib
2:50 - 3:10	TV: Trade Visualizer - An Educational Online Tool for Learning Trade	Naeem Iqbal and Rizwan Mehmood
3:10 - 3:30	Multi-Dimension Projection For Non-Linear Data Via Spearman Correlation Analysis (MD-SCA)	Muhammad Saddam Khokhar, Keyang Cheng, Misbah Ayoub, Zakria Jamali, and Lubamba Kasangu Eric
3:30 - 3:50	Citation Analysis of Research Articles (CARA)	Bilal Hayat Butt, Daniyal Faquih, Muhammad Hammad, and Saad Nasir
3:50 - 4:10	Android based Internet Accessible Infant Incubator	Shehla Inam, Muhammad Farrukh Qureshi, Faisal Amin, Muhammad Akmal, and Muhammad Ziaur Rehman
	Technical Papers Session II - IoT, Blockchain, & Fintech *Lecture Hall B (Aman Tower, 11th floor)* *Session Chair: Dr B.S. Chowdhary*	
2:30-2:50	Blockchain based Secure Crypto-currency system with Quantum Key Distribution Protocol	Muhammad Taimour Azhar, Muhammad Burhan Khan, and Asim-Ur-Rehman
2:50 - 3:10	Blockchain in Public Finance and Taxation: A Systematic Review	Behraj Khan and Tahir Syed
3:10 - 3:30	Positive Psychological Capital and Sustained Competitive Advantage of Born Global SMEs: Mediating role of Transformational Leadership	Wafa Khurram, Syed Khurram Jafri, Muhammad Fiaz, and Amir Ikram
3:30 - 3:50	Intelligent Trash Bin (ITB) with Trash Collection Efficiency Optimization using IoT Sensing	Hamza Sohail, Saif Ullah, Asim Khan, Omar Bin Samin, and Maryam Omar
3:50 - 4:10	A Comprehensive Literature Review of Data Encryption Techniques in Cloud Computing and IoT Environment	Muhammad Sheraz Mehmood, Muhammad Rehman Shahid, Abid Jamil, Rehan Ashraf, Toqeer Mahmood, Aatif Mahmood, Nadeem Ali, and Arfa Hassan
	Technical Papers Session III - Computer Vision *Room C9 (Aman Tower, 3rd floor)* *Session Chair: Dr Asim Ur Rehman Khan*	
2:30-2:50	Optical Assistance for Motor Neuron Disease (MND) Patients Using Real-time Eye Tracking	Zaryab Aslam, Aisha Zahid Junejo, Aarish Memon, Ali Raza, and Juveria Aslam
2:50 - 3:10	Comprehensive and Comparative Study of Drowning Detection and Rescue Systems	Muhammad Aftab Hayat, Goutian Yang, Atif Iqbal, Muhammad Mateen, and Adeel Saleem

3:10 - 3:30	A Novel Image Dehazing and Assessment Method	Saad bin Sami, Abdul Muqeet, and Humera Tariq
3:30 - 3:50	Automated Sorting and Grading of Agricultural Products based on Image Processing	Hafiz Muhammad Tayyab Abbas, Usama Shakoor, Muhammad Jaleed Khan, Mushtaq Ahmed, and Khurram Khurshid
3:50 - 4:10	Malaria Cell Identification from Microscopic Blood Smear Images	Muhammad Uzair Adamjee and Sayeed Ghani

Doctoral Consortium *Room C10 (Aman Tower, 3rd floor)*		
2:30 - 3:00	Zarmeen Nasim	
3:00 - 3:30	Samreen Kazi	
3:30 - 4:00	Furqan Essani	
4:00 - 4:30	Nasir Uddin	
4:30 - 5:00	Afshan Ejaz	

Tutorial II *Lab 3 (Aman Tower, 3rd floor)*	
2:30 - 4:50	Dr. Murtaza Haider Inferring 'causal' impacts from Time Series Analysis

Keynote Session III *Lecture Hall A (Aman Tower, 12th floor)*		
5:00 - 5:40	Keynote 4: Whirlwind tour of decentralized finance and blockchain	Dr. Gus Gutoski
5:40 PM	Refreshments (11th floor, Aman Tower)	

Day 2 – Sunday, 17-Nov-2019

Keynote Session IV *Lecture Hall A (Aman Tower, 12th floor)*		
9:30 - 10:10	Keynote 5: Environmental sensing using WiFi signals	Dr. Momin Ayub Uppal
10:10 – 10:50	Keynote 6: Cyber Security Auditing and Evaluation: A Challenge for Every Organization	Dr. Haider Abbas
10:50 - 11:20	Refreshments (11th floor, Aman Tower)	

Keynote Session V *Lecture Hall A (Aman Tower, 12th floor)*		
11:20 - 12:00	Keynote 7: Speech over Simple Phones: The Internet of the Orals	Dr. Agha Ali Raza
12:00 - 12:40	Keynote 8: 3GPP-IMS Compliant End-to-End Mobile IPTV Solution for 4G/LTE Networks	Dr. Amir Qayyum
12:40 - 2:00	Prayers / Lunch	

Technical Papers Session IV - Artificial Intelligence *Lecture Hall A (Aman Tower, 12th floor)* *Session Chair: Engr. Parkash Lohana*		
2:00 - 2:20	Optimal Illumination of Arbitrary Rooms Using Genetic Algorithm	Aiman Khan, Syed Sami Murtaza, and Syeda Saleha Raza
2:20 - 2:40	A New Perspective towards Analysis of Human Facial Expression Using Supervised Classification Algorithms	Tahreem Iqbal and Sobia Tariq Javed
2:40 - 3:00	The Effect of Website Design Artifacts and Emotions on Behavioral Purchase Intention in M-Commerce	Nabeela Ashraf, CM Nadeem Faisal, Sohail Jabbar, Muhammad Asif Habib, Iqra Kiran, and Moneeb Ahmed
3:00 - 3:20	Skin Detection based Pornography Filtering using Adaptive Back Propagation Neural Network	Muhammad Sajjid Farooq, Muhammad Adnan Khan, Sagheer Abbas, Atifa Athar, Muhammad Nadeem Ali, and Arfa Hassan
3:20 - 3:40	Customizable algorithm for university timetabling and scheduling	Hira Ansari, Amsa Aijaz, Vijay Kumar, Masood Junejo, Saeed Shah, Muhammad Saad, Zahid Hussain Khaskheli, Qasim Ali Arain, and Imran Memon

	Technical Papers Session V - Social Computing & Information Retrieval Lecture Hall B (Aman Tower, 11th floor) Session Chair: Dr Tariq Rahim Soomro	
2:00 - 2:20	Towards ontology editing, querying and visualization in .net environment	Noman Islam and Zubair Shaikh
2:20 - 2:40	An Ontology-based Knowledge Management Model for e-Recruitment utilizing MOOCs Data	Zainab Javed, Hareem Qazi, and Shakeel Ahmed Khoja
2:40 - 3:00	Comparative analysis of Mobile Application Testing and Crowd Source Software Testing	Gul Bano, Qasim Ali, Sunbul Sajid Khuwaja, Isma Farah, Paras Lal, Imran Memon, and Asma Zubedi
3:00 - 3:20	Role of Social Media Marketing Activities in Creating University Brand Image and Reputation: The Mediating Role of Customer Value Co-creation Behavior	Muhammad Fiaz, Amir Ikram, Arooj Basma, Zainab Tariq, Syed Khurram Ali Jafri, and Wafa Khurram
3:20 - 3:40	How Workaholic Employees thrive in the Employee Involvement climate	Muhammad Asim Shahzad, Dong Jun, Qandeel Hassan, and Rabbia Zafar
	Technical Papers Session VI - Networks Room C9 (Aman Tower, 3rd floor) Session Chair: Dr Syed Hyder Abbas Musavi	
2:00 - 2:20	Evaluation of video streaming capacity of UAVs with respect to channel variation in 4G-LTE Surveillance Architecture	Muhammad Naveed, Sameer Qazi, Bilal A. Khawaja, and Muhammad Mustaqi
2:20 - 2:40	Performance Enhancement of Snort IDS through Kernel Modification	Sabir Ali Changazi, Imran Shafi, Khaled Saleh, M Hasan Islam, Syed Muzammil Hussain, and Atif Ali
2:40 - 3:00	On the Study of SDN for Emulating Virtual LANs	Abdul Hameed and Muhammad Wasim
3:00 - 3:20	Dynamic Cloud Resources Allocation	Saad Sultan, Abdullah Asad, M. Abubakr, Suleman Khalid, Shahab Ahmed, and Aamir Wali
3:20 - 3:40	HPC as a Service: A naïve model	Hamza Ali Imran, Saad Wazir, Ahmed Jamal Ikram, Ataul Aziz Ikram, Hanaif Ullah, and Maryam Ehsan
3:40 - 4:00	Fault Signal Detection of Linear Actuators based on Intelligent Remnant Filters	Naveed Riaz, Syed Irtiza Ali Shah, Faisal Rehman, Syed Omer Gilani, and Emad-udin
	Tutorial III Lab 3 (Aman Tower, 3rd floor)	
2:00 - 4:00	Dr. Muhammad Imran Research Areas in 5G and Telecom	
	Closing Ceremony Lecture Hall A (Aman Tower, 12th floor)	
4:00 - 4:05	Tilawat	
4:05 - 4:15	Closing Remarks	
4:15 - 4:45	Presentation of Souvenirs to Keynote & Invited Speakers	
4:45 - 4:55	Vote of Thanks by Conference Chair	
4:55 - 5:00	Photo Session	
5:00 PM	Refreshments (11th floor, Aman Tower)	