October 17, 2017 - TUESDAY

8:00am - 5:00pm: REGISTRATION (Hall A- TBA)

9:00am - 9:07am: Tilawat Kalam-e-Pak

9:07am - 9:15am: Conference Opening Remarks by
　　　　　　Fazlullah Khan, FUTURE5V CHAIR: Abdul Wali Khan University Mardan
　　　　　　　　(Location: Mian Hall)

9:15am - 9:30am: VC Speech/Conference Remarks by
　　　　　　Mr. Awais Rauf, Chief Executive Officer, The University of Lahore
　　　　　　　　(Location: Main Hall)

9:30am - 9:45am: VC Speech/Conference Remarks by
　　　　　　Prof. Dr. Khursheed Khan, VICE CHANCELLOR, Abdul Wali Khan University Mardan
　　　　　　　　(Location: Main Hall)

9:45am - 10:00am: Chief Guest Speech
　　　　　　Mr. ABC, Minister NA Pakistan
　　　　　　　　(Location: Main Hall)

10:05am - 11:00am: Keynote by **Dr. Rodhzia Binti Attan**
　　　　　　Professor, University of Malaya, Malaysia
　　　　　　　　(Location: Main Hall)

11:00am - 11:30am: **Tea Break**

PARALLEL SESSIONS :

A SESSIONS (Hall A)

SESSION TA1: Communication Networks I
CHAIR: **Dr. Khalid Hussain,** University o f Lahore
Co-CHAIR: **TBA**
11:30 - 13:10
11:30 - 11:50   Energy Based Performance of AODV Routing Protocol Under TCP and UDP

11:50 - 12:10   Li-Fi Become IOE: A Novel Architecture for LED

12:10 - 12:30   Participant's Ranking Algorithm for Crowdsensing in Mobile Communication

12:30 - 12:50   A Parametric Performance Evaluation of Batteries in Wireless Sensor Network

12:50 - 01:10   Comparative Analysis and Route Optimization of State of the Art Routing Protocols

01:10 pm - 02:00 pm: Lunch and Prayer Break

SESSION TA2: Delay Tolerent Networks I
CHAIR: **Dr. Wajahat Mahmood Qaz**i, COMSATS Intitute of Information Technology, Pakistan
Co-CHAIR: **TBA**
02:00 - 04:00
02:00 - 02:20   CC-RACE: Congestion Control with Reliability and Adaptive Cooperation for Efficient Underwater Sensor Networks

02:20 - 02:40   Design and Analysis of Compact Triple Band Microstrip Patch Antenna for Multiband Applications

02:40 - 03:00   Message Admission Control along with Buffer Space Advertisement to Control Congestion in Delay Tolerant Networks (DTNs)

03:00 - 03:20   Expert System for Handling Congestion in oppurtunistic Networks

03:20 - 03:40   Depth-based Adaptive and Energy-aware (DAE) Routing Scheme for UWSNs

03:40 - 04:00   State-of-the-Art Congestion Control Protocols in WSN: A Survey

04:00 pm - 04:30 pm: Tea Break

SESSION TA3: Software Engineering I
CHAIR: **Dr. Adnan Akhunzada**, COMSATS Intitute of Information Technology, Pakistan
Co-CHAIR: **TBA**

04:30 - 06:30

04:30 - 04:50   A Research Framework OF Oracle Universal Content Management (UCM) An Impact on Enterprises/Organizations

04:50 - 05:10   Determining Interdependencies among NFRs in Agile Environment to Reduce Conflicts

05:10 - 05:30   Notational Modeling for Model Driven Cloud Computing using Unified Modeling Language

05:30 - 05:50   Offshore Outsourcing Risk Management for Pakistan

05:50 - 06:10   An Evolutionary Game-Based Mechanism for Unwanted Traffic Control

06:10 - 06:30   Distributed Monitoring Architecture for Industrial Safety Based on Gear Fault Diagnosis

B SESSIONS (Hall B)

SESSION TB1: <u>Wireless Sensor Networks I</u>
CHAIR: **Dr. Sheeraz Ahmad,** University o f Lahore
Co-CHAIR: **TBA**
11:30 - 13:10
11:30 - 11:50   Geo-spatial division based geographic Routing for Interference avoidance in UWSN's

11:50 - 12:10   An Ontology based Approach for Messages Dissemination in Vehicular Ad Hoc Networks

12:10 - 12:30   Nodes density analysis for WBAN schemes in terms of Stability and Throughput

12:30 - 12:50   BER and NCMSE Estimation Algorithms for Underwater Noisy Channels

12:50 - 01:10   On Passive RFID Localization Systems in Internet of Things

<u>01:10 pm - 02:00 pm</u>: Lunch and Prayer Break

SESSION TB2: Wireless Sensor Networks <u>II</u>
CHAIR: **Dr. Shah Nazir,** University o f Swabi
Co-CHAIR: TBA
02:00 - 04:00
02:00 - 02:20   QL-EEBDG: QLearning based energy balanced routing in underwater sensor networks

02:20 - 02:40   DEAR-2 An Energy-aware Routing Protocol with guaranteed Delivery in Wireless Ad-hoc Networks

02:40 - 03:00   Scalability analysis of DBR and EEDBR in terms of delay, throughput and path loss in UASNs

03:00 - 03:20   A Novel Energy Aware Design for Clustered Wireless Sensor Networks

03:20 - 03:40   Energy Efficient Clustering Algorithm for Rechargeable Wireless Sensor Networks

03:40 - 04:00   Modeling Resource Allocation for Real time Traffic in Cognitive Radio Sensor Networks

<u>04:00 pm - 04:30 pm</u>: Tea Break

SESSION TB3: <u>Internet of Things and Bigdata I</u>
CHAIR: **Dr. Jawad Ahmad,** University o f Lahore
Co-CHAIR: **TBA**
04:30 - 06:30
04:30 - 04:50   Internet of Things (IoTs) Research Challenges

04:50 - 05:10   Internet of Things based Smart City Environment using Big Data Analytics-A Survey

05:10 - 05:30   Cloud–assisted IoT-based smart respiratory monitoring system for asthma patients

05:30 - 05:50   Parallel Computation on Large Scale DNA Sequences

05:50 - 06:10   A Dynamic Distributive Internet of Things-Trust Management Mechanism Based Clustering (IoT-TM)

06:10 - 06:30

C SESSIONS (Hall C)

SESSION TC1: Underwater Sensor <u>Networks I</u>
CHAIR: **Dr. Mian Ahmad Jan,** Abdul Wali Khan Mardan
Co-CHAIR: **TBA**
11:30 - 13:10
11:30 - 11:50   A balanced energy consumption based routing protocol for efficient data gathering in underwater ASNs

11:50 - 12:10   Location error resistant Geo-opportunistic Routing for Void Hole avoidance in USN's

12:10 - 12:30	Adaptive Transmission based Geographic and Opportunistic Routing in UWSN.
12:30 - 12:50	Geographic and Enhanced Opportunistic Routing for UWSN
12:50 - 01:10	

01:10 pm - 02:00 pm: Lunch and Prayer Break

SESSION TC2: <u>Image Processing I</u>
CHAIR: **Dr. Maqsood Hayat,** Abdul Wali Khan University Mardan
Co-CHAIR: **TBA**
02:00 - 04:00

02:00 - 02:20	Segmentation of Chest Radiographs for Tuberculosis Screening Using Kernel Mapping and Graph Cuts
02:20 - 02:40	Blood cells counting and segmentation using Image Processing techniques
02:40 - 03:00	Survey Analysis of Automatic Detecting and Grading of Cataract using Different Imaging Modalities
03:00 - 03:20	Input Based Multiple Destination, Multiple Lines Following Robot with Obstacle Bypassing
03:20 - 03:40	Augmented and Virtual Reality in Mobile Fitness Applications: A Survey
03:40 - 04:00	Features Analysis of Online Shopping System Using WCM

02:00 pm - 04:00 pm: Tea Break

SESSION TC3: Healthcare and Assistive Technologies <u>I</u>
CHAIR: **Dr. Usman AKram,** National University of Sciences and Technology, Pakistan
Co-CHAIR: **TBA**
04:30 - 06:30

04:30 - 04:50	SmartAssist- Smartphone Based Drug Compliance for Elderly People and People with Special Needs
04:50 - 05:10	Improved Performance of Wavelet-SIFT Features Approach to Motion Detection by Mean of Matching Percentage
05:10 - 05:30	Fully automated identification of heart sounds for the analysis of cardiovascular pathology
05:30 - 05:50	A privacy risk assessment for the Internet of Things in Healthcare
05:50 - 06:10	Usability Attributes for Mobile Applications: A Systematic Review
06:10 - 06:30	

October 18, 2017 - WEDNESDAY

<u>8:00am - 01:00pm</u>: REGISTRATION (Hall TBA)
<u>9:00am - 10:00am</u>: Keynote by **Dr. Nabeel Younus Khan**
                     Research Scientist, Volpara Solutions, New Zealand
                          (Location: Main Hall)

<u>10:00am - 11:00am</u>: Keynote by **Dr. Abid Yahya**
                     Professor, Botswana University, Botswana
                          (Location: Main Hall)

11:00 am - 11:30 am: Tea Break

PARALLEL SESSIONS :

A SESSIONS (Hall A)

SESSION WA1: <u>Internet of Things and Bigdata II</u>
CHAIR: **Dr. Nabeel Younus Khan,** Volpara Solutions New ZealandUniversity o f Lahore
Co-CHAIR: **TBA**
11:30 - 13:10

11:30 - 11:50	Exploring "IoT" Applications for Disaster Management: Identifying key factors and proposing future directions
11:50 - 12:10	A Review of Current Security Issues in Internet of Things
12:10 - 12:30	Spam User Detection through Deceptive Images in Big Data
12:30 - 12:50	A Review of Internet of Things (IoT) Connectivity Techniques
12:50 - 01:10	Bigdata and Named Entity Recognition Approaches

01:10 pm - 02:00 pm: Lunch and Prayer Break

SESSION WA2: <u>Information Security and Network I</u>
CHAIR: **Dr. Muhamamd Sajjad,** Islamia College Chartered University Peshawar
Co-CHAIR: **TBA**
02:00 - 04:00
02:00 - 02:20   EH-DBR: Energy Harvesting Depth Based Routing for UWSN's

02:20 - 02:40   A Survey of Key Negotiation and Authentication System in WSNs

02:40 - 03:00   Master Key Based Light Weight Key Negotiation Scheme for WSNs

03:00 - 03:20   Algorithm and Formal Model of Recovering Network Connectivity in Battlefield Surveillance

03:20 - 03:40   Enhancing Integrity technique using Distributed Query Operation

03:40 - 04:00   Big Data in Healthcare: A Survey

<u>04:00 pm - 04:30 pm</u>: Tea Break

B SESSIONS (Hall B)
SESSION WB1: Machine Learning and Artificail Intellegence <u>I</u>
CHAIR: **Dr. Rodziah bint Attan,** Malaysia
Co-CHAIR: **TBA**
11:30 - 13:10
11:30 - 11:50   Using Co-occurrence and Granulometry Featuresfor Content BasedImage Retrieval

11:50 - 12:10   Classification of Normal Heart beats using Spectral and non spectral features for phonocardiography signals

12:10 - 12:30   Intelligent Virtual Security System using Attention Mechanism

12:30 - 12:50   Quality Assessment and Classification of heart sounds using pcg signal

12:50 - 01:10   Machine Imagination: A Step Towards the Construction of Artistic World Through Storytelling

<u>01:10 pm - 02:00 pm</u>: Lunch and Prayer Break

SESSION WB2: <u>Information Systems and Internet Technology II</u>
CHAIR: **Dr. Zahoor Jan,** Islamia College Chartered University Peshawar
Co-CHAIR: D**r.** TBA
02:00 - 04:00
02:00 - 02:20   EH-ARCUN: Energy Harvesting Approach towards Reliability with Cooperation in UWSNs

02:20 - 02:40   Android based Vehicle Tracking System

02:40 - 03:00   Impact of Beacon Order and Superframe Order on IEEE 802.15.4 for Nodes Association in WBAN

03:00 - 03:20   Congestion aware and adaptive routing protocol for MANETs

03:20 - 03:40   A Comparative Study on Frequent Link Disconnection problems in VANETs

03:40 - 04:00   Performance and Execution Evaluation of VANETs Routing Protocols in different Scenarios

<u>04:00 pm - 04:30 pm</u>: Tea Break

C SESSIONS (Hall C)
SESSION WC1: <u>Fog Computing I</u>
CHAIR: **Dr. Abid Yahaya,** Botswana
Co-CHAIR: **TBA**
11:30 - 13:10
11:30 - 11:50   Seven Pillars to Achieve Energy Efficiency in High Performance Computing and Big Data: An Application Perspective of Fog Computing

11:50 - 12:10   Scheduling Algorithms for High performance Computing: An Application Perspective of Fog Compuitng

12:10 - 12:30   Internet Traffic Flow Analysis in Fog Computing: An Experimental Case Study

12:30 - 12:50   Secure Login Using Multi-Tier Authentication Schemes in Fog Computing

12:50 - 01:10   Managing and Processing Information in the Internet of Things based Smart City Environment using Big Data Analytics

<u>01:10 pm - 02:00 pm</u>: Lunch and Prayer Break

SESSION WC2: Machine Learning and Bigdata I
CHAIR: **Dr. Muazzam Ali Khan Khattak, National** University o f Sciences and Technology, Pakistan
Co-CHAIR: **TBA**

02:00 - 04:00
02:00 - 02:20   A Tool for Knowledge-oriented Physics-based Motion Planning and Simulation

02:20 - 02:40   Modeling and Simulation of Resource constrained Vaccination Strategies and Epidemic outbreaks

02:40 - 03:00   An Overview of OCT Techniques for Detection of Ophthalmic Syndromes

03:00 - 03:20   Segmentation and Recognition of Electronic Components in Hand-Drawn Circuit Diagrams

03:20 - 03:40   Determination of Awareness of Piracy Level on Educational Institutions- A Questionnaire Based Study

03:40 - 04:00   Knowledge Extraction Using Web Usage Mining

<u>02:00 pm – 04:00 pm:</u> Tea Break

October 19, 2017 – THURSDAY
<u>9:30am - 4:00pm</u>: University visit