

TECHNICAL PROGRAM

International Conference on Communication, Computing and Digital Systems (CCODE 2017)

Date: 8 - 9 March 2017

Venue: Bahria University, Islamabad

DAY - 1 (08th March 2017)

Registration (0800 - 0900)

Opening Ceremony - Auditorium (0900 - 1030)

09:00 - 09:05	Recitation of Holy Quran
09:05-09:10	Welcome Note by Conference Chair
09:10-09:15	Opening Remarks by IEEE Islamabad Chair
09:15-09:20	Address by Conference Patron
09:20-09:50	Internet of Things: Trends, Challenges & Opportunities - An Industrial Perspective
09:50-10:20	Keynote Talk - Dr. Kim Stansfield: Developing High Value IoT Solutions Using AI Enhanced ISO 16355 for QFD
10:20-10:30	Address by Chief Guest

Refreshments (1030 - 1100)

Invited Talks - Auditorium

1100 - 1120	Dr. Shoab Ahmed Khan: Emerging & disruptive Technologies, Opportunities & Challenges
1120 - 1140	Dr. Sander Schroevers: Virtual Mobility in Higher Education
1140 - 1200	Dr. Ensar Gul: Software Architecture and Process for an Embedded Communication System Development
1200 - 1220	Dr. Qurat ul Ain Nizamani: Gamification theories, usages, and practices
1220 - 1240	Dr. Joaquim Jose De Castro Ferreira: Dependable vehicular communications: from the physical layer to the applications

LUNCH - GYM (1300 - 1400 hrs)

Technical Session A1 (Communication) - VCR

1400 - 1415	PID:40	Secure Provenance in Wireless Sensor Networks- A Survey of Provenance Schemes (Khizar Hameed, Junaid Haseeb, Muhammad Tayyab, Muhammad Junaid, Talal Bin Maqsood and Mustahsan Hammad Naqvi)
1415 - 1430	PID:165	Remote Pipeline Monitoring Using Wireless Sensor Networks (Faiza Nawaz and Khawar Rehman)
1430 - 1445	PID:222	An Efficient Cluster Designing Mechanism for Wireless Sensor Networks (Syed Bilal Hussain Shah, Zhe Chen, Fuliang Yin and Inam Ullah Khan)
1445 - 1500	PID:254	Energy Efficient Mobile User Tracking System with node activation mechanism using Wireless Sensor Networks (Rizwan Ali Shah, Bhawani Shankar Chowdhary, Sonia Shah and Sunder Ali Khowaja)
1500 - 1515	PID:422	A Control Channel based MAC protocol for Time Critical and Emergency Communications in Industrial Wireless Sensor Networks (Mohsin Raza, Hoa Le-Minh, Nauman Aslam, Sajjad Hussain and Waqas Ellahi)
1515 - 1530	PID:430	Extending Agent-based Mobile Petri Nets with Access Control (Maryam Jamal and Nazir Ahmad Zafar)

Technical Session A2 (Communication) - NC8		
1400 - 1415	PID:90	Performance Analysis of IEEE 802.15.4 under variable BO and SO (Arshad Farhad, Muhammad Umar Khattak, Muhammad Majid Mubarik and Wajid Ullah Khan)
1415 - 1430	PID:228	Analysing Connectivity Patterns and Centrality Metrics for Opportunistic Networks (Muhammad Arshad Islam, Muhammad Azhar Iqbal, Muhammad Aleem and Zahid Halim)
1430 - 1445	PID:293	Quantification of PIR Protocols Privacy (Rafiullah Khan, Mohib Ullah and Muhammad Arshad Islam)
1445 - 1500	PID:401	A Novel Approach For Secure Multi-Party Secret Sharing Scheme Via Quantum Cryptography (Noor Ulain)
1500 - 1515	PID:417	High SNR Analysis of Inter-body Interference in Body Area Networks (Furqan Jameel, Faisal Khan, M Asif Ali Haider and Amir Aziz Butt)
1515 - 1530	PID:425	Performance Analysis of VANETs under Rayleigh, Rician, Nakagami-m and Weibull Fading (Furqan Jameel, Faisal Khan, M Asif Ali Haider and Amir Aziz Butt)

Technical Session B1 (Computing) - LT2		
1400 - 1415		Invited Talk - Dr. Jawad Ashraf: Large Scale Scientific Applications and Their Solutions
1415 - 1430	PID:113	Enhancing the Nobel Prize Schema (Raabia Asif and Mohammad Abdul Qadir)
1430 - 1445	PID:119	Performance Evaluation of Matrix Multiplication in Virtual Machine (Asif Muhammad and Muhammad Arshad Islam)
1445 - 1500	PID:220	Generating Suggestions for Initial Program Investigation Using Dynamic Analysis (Muhammad Kamran, Mubashir Ali and Adeel Ahmed)
1500 - 1515	PID:256	An Efficient Dynamic Round Robin Algorithm for CPU Scheduling (Muhammad Umar Farooq, Aamna Shakoor and Abu Bakar Siddique)
1515 - 1530		Invited Talk - Dr. Adwoa Donyina : Stochastic Modelling and Analysis of Dynamic Human Resource Allocation (StADy)

Technical Session C1 (DSP) - LT1

1400 - 1415	PID:112	Comparison of Different De-noising Techniques for Removal of Poison Noise from Cervical X-Rays Images (Adeel Asim, Usman Akram and Anum Abdul Salam)
1415 - 1430	PID:176	Vertebra localization and centroid detection from cervical radiographs (Anum Mehmood, Muhammad Usman Akram and Anam Tariq)
1430 - 1445	PID:179	Image Processing Based Detection & Classification of Blood Group Using Color Images (Abubakar Yamin, Faisal Imran, Usman Akbar and Syed Hassan Tanvir)
1445 - 1500	PID:205	An Efficient Machine Learning Approach for the Detection of Melanoma using Dermoscopic Images (Zahra Waheed, Amna Waheed, Madeeha Zafar and Farhan Riaz)
1500 - 1515	PID:309	Fast Wavelet based Image Characterization for Content based Medical Image Retrieval (Syed Anwar, Fozia Arshad and Muhammad Majid)
1515 - 1530	PID:352	An investigation of challenges in automatic segmentation of medical images (Hussain Rahman, Sami Ur Rahman, Fakhruddin and Sehat Ullah)

Tea Break (1530 - 1600)

Technical Session A3 (Communication) - VCR

1600 - 1630		Invited Talk-Dr. Wanqing Tu: Telecommunication Networks: Cutting Edge Trends
1630 - 1645	PID:180	Internet-of-things based smart tracking (Ayesha Habib, Hafsa Anam, Warda Anwaar, Hareem Afaq, Yasar Amin and Hannu Tenhunen)
1645 - 1700	PID:209	5G Cellular Network Integration with SDN: Challenges, Issues and Beyond (Sahrish Khan and Munam Ali Shah)
1700 - 1715	PID:214	Analysis of Coauthorship in Computer Networks using Centrality Measures (Tanveer Ahmed, Adeel Ahmed, Mubashar Ali and Muhammad Kamran)
1715 - 1730	PID:432	Roadside Infrastructre Transmission of VANET using Power Line Communication (Muhammad Hussain, Haroon Rasheed, Naveed Ali and Najamus Saqib)

Technical Session A4 (Communication) - NC8

1600 - 1615	PID:82	Performance Comparisons of Fixed and Adaptive Beamforming Techniques for 4G Smart Antennas (Adnan Anwar Awan, Irfanuallah Khan, Shaid Khattak and Aqdas Naveed Malik)
1615 - 1630	PID:111	Security Framework of Ultralightweight Mutual Authentication Protocols for Low Cost RFID tags (Madiha Khalid and Umar Mujahid)
1630 - 1645	PID:233	Miniaturized Flexible Chipless RFID Tag for IoT Market (Nimra Javed, Ayesha Habib, Yasar Amin and Hannu Tenhunen)
1645 - 1700	PID:237	Statistical analysis of MIMO channel (Fatima Nasim)
1700 - 1715	PID:273	UWB BAN Antennas: Recent Trend and Developments (Sajjad Hussain and Wajiha Munir)
1715 - 1730	PID:306	Ultra-Wideband Antenna with WLAN and WiMAX Band-Notch Characteristic (Noman Waheed, Abubakar Sadaat, Muhammad Uzair Zubair, Muhammad Zeeshan Sadiq, Talha Ahmad, Maryam Rasool, Ahmed Sohail and Muhammed Naeem)

Technical Session B2 (Computing) - LT2

1600 - 1615		Invited Talk - Dr. Jameel Ahmed: CPEC: An impact on Engineers & Engineering Education in Pakistan
1615 - 1630	PID:19	Identifying and resolving disorientation in e-learning systems (Neelma Bhatti, Imdad Ali Ismaili and Dr. Lachhman Das Dhomeja)
1630 - 1645	PID:71	Factors Influencing the Cloud Computing Adoption in Higher Education Institutions of Punjab, Pakistan (Muhammad Imran Tariq, Shahzadi Tayyaba, Haroon Rasheed and Muhammad Waseem Ashraf)
1645 - 1700	PID:131	A Community-Centric Access Control Scheme for Online Social Networks (Yousra Asim, Wajeeha Naeem and Ahmad Kamran Malik)
1700 - 1715	PID:264	Usage of Gamification in Enterprise: A Review (Abdul Aziz, Ana Mushtaq and Misbah Anwar)
1715 - 1730	PID:302	Augmented Reality Teaching In Classrooms (Faima Abbasi, Ayesha Waseem and Erum Ashraf)

Technical Session C2 (DSP) - LT1

1600 - 1615	PID:252	Adaptive processing of image using DWT and FFT OFDM in AWGN and Rayleigh Channel (Abdul Mannan and Aamir Habib)
1615 - 1630	PID:315	A Proposed framework for vision based gait biometric systems against spoofing attacks (Hajra Masood and Humera Farooq)
1630 - 1645	PID:367	Stereovision-based Real-Time Obstacle Detection Scheme for Unmanned Ground Vehicle with Steering Wheel Drive Mechanism (Maham Khan, Saad Hassan, Dr. Syed Irfan Ahmed and Dr. Jamshed Iqbal)
1645 - 1700	PID:381	Hybrid Textural Feature Set Based Automated Diagnosis System for Age Related Macular Degeneration Using Fundus Images (Samina Khalid, M. Usman Akram and Tehmina Khalil)
1700 - 1715	PID:396	Robotic Navigation based on Logic-Based Planning (Safdar Zaman, Muhammad Ibtisam Gul, Nuhman Ul Haq and Arslan Habib)
1715 - 1730	PID:402	Morphological Operations and Re-Projection based Novel Low-Dose CT Reconstruction scheme (Umar Talha, Tariq Khan, Waleed Bin Yousuf and Omer Zia)

GALA DINNER (1900 - 2130)

09th March 2017

Invited Talks - Auditorium

0900 - 0920	Dr. Marilyn Leask: The Internet of Things: Possibilities, Challenges and Unintended Consequences of Tomorrow's Society
0920 - 0940	Dr. Sahibzada A Mahmud: R&D and Commercialization Challenges in Pakistan
0940 - 1000	Dr. Dursun Akaslan: The Augmentation of Internet of Things with Sensors and Actuators using Arduino through I2C and SPI Protocols
1000 - 1020	Dr. Zartash Uzmi: Technology View of Internet Censorship Research
1020 - 1040	Dr. Shahid Khattak: Towards 5G: The drivers and The Technologies

Tea Break (1100 - 1130)

Technical Session A5 (Communication) - VCR

1130 - 1145	PID:13	Primary User Detection in Cognitive Radio Networks Through Quickest Detection (Muhammad Sajjad Khan and Insoo Koo)
1145 - 1200	PID:20	Jointly Locating the Primary and Secondary Users in Cognitive Radio Networks (Nasir Saeed, Muhammad Haris and Mian Imtiaz Ul Haq)
1200 - 1215	PID:172	Design And Evaluation of Power Budget For a Bidirectional CWDM-Passive Optical Network (Maria Nazir, Farzana Arshad and Rameez Asif)
1215 - 1230	PID:305	Interference Reduction in Cognitive Radio Networks Using Genetic and Firefly Algorithms (Atif Elahi, Ijaz Mansoor Qureshi, Mehreen Atif and Noor Gul)
1230 - 1245	PID: 357	Increasing Energy Efficiency with Channel Condition Based Activation for a Cognitive Radio Mobile Network (M.Zohaib Sarwar, M.Rakeh Saleem, M.Moez Haider and Junaid Imtiaz)

Technical Session B3 (Computing) - LT2

1130 - 1200		Invited Talk - Dr. M. Uzair Khan: Software Testing: State of art and Challenges?
1200 - 1215	PID:118	Web Ontology based Multi-level CACHE Simulator (Fakhra Aftab and Muhammad Ali Ismail)
1215 - 1230	PID:121	Effect of Coupling on Software Faults: An Empirical Study (Sajid Anwer, Ahmad Abdellatif, Mohammad Alshayeb and Muhammad Shakeel Anjum)
1230 - 1245	PID:190	A Model for Applying Agile Practices in Distributed Environment: A Case of Local Software Industry (Khush Bakhat, Shujah Islam and Yasir Hafeez)
1245 - 1300	PID:268	A Clone Management Framework to Improve Code Quality of FOSS Projects (Sara Shahzad, Ammara Hussain and Shah Nazir)

Technical Session C3 (DSP) - LT1

1130 - 1200		Invited Talk - Dr. Yasir Ameen: IoT Everywhere – leading to secure environment
1200 - 1230		Invited Talk - Dr. Khurram Bhatti: Cache Leaks: A case of hardware security in x86 architecture
1230 - 1245	PID:85	Non-Linear filtering techniques for high precision GPS Applications (Shafaq Nisar and Ihsan Ullah)
1245 - 1300	PID:181	Automated Speed Limit Identification for Efficient Driving System (Ayesha Waqar Mir, Hafsah Ahmed and Asim Altaf Shah)

LUNCH (1300 - 1400)

Technical Session A6 (Communication) - VCR

(Special Session on Wireless Communications - Protocols, Technologies and Future Trends)

1400 - 1415	PID:435	Wireless Sensor Networks Free-Range base Localization Scheme: A Comprehensive Survey (Haroon Khan, Muhammad Noman Hayat, Zia Ur Rahman and Dilawar Shah)
1415 - 1430	PID:437	Communication between multiple processes on same device using TCP/IP Suite (Faizan Badshah, Syed Tauhid Ullah Shah, Syed Roohullah Jan and Izaz ur Rahman)
1430 - 1445	PID:439	Detection and Prevention against RTS Attacks in Wireless LANs (Tauseef Jamal, Muhammad Alam and Muhammad Masadiq Umar)
1445 - 1500	PID:441	Multimedia Sensor Networks: Recent Trends, Research Challenges and Future Directions (Muhammad Noman Hayat, Haroon Khan and Zia Ur Rahman)
1500 - 1515	PID:447	Path Loss Effect on Signal Power in MICAz Sensors Network (Farhan Ullah, Masood Habib, Syed Muhammad Owais, Muhammad Umar and Taimur Sajjad)

Technical Session B4 (Computing) - LT2

1400 - 1415	PID:35	Visual Impairment Aid using Haptic & Sound Feedback (Syed Tahir Hussain Rizvi, Muhammad Junaid Asif and Husnain Ashfaq)
1415 - 1430	PID:78	NUAV – A Testbed for Developing Autonomous Unmanned Aerial Vehicles (Saleh Habib, Mahgul Malik, Shams Ur Rehman and Adil Raja)
1430 - 1445	PID:123	Outliers Classification for Mining Evolutionary Community using Support Vector Machine and Logistic Regression on Azure ML (Shahi Dost, Sajid Anwer, Faryal Saud and Maham Shabbir)
1445 - 1500	PID:241	Extended Color Code and Automated Quantification of Islet Cells (Muhammad Tariq Baloch, Safdar Zaman and Fazal Wahab)
1500 - 1515	PID:389	Assessment of Quality of Rice Grain using Optical and Image Processing Technique (Zahida Parveen, Anzar Alam and Hina Shakir)
1515 - 1530	PID:403	HEPO: The Hepatitis Ontology For Abductive Medical Diagnostics Systems (Asma Khan, Azeema Sadia, Sohaib Ahmed, Huma Tabassum and M. Shahid Khan)

Technical Session C4 (DSP) - LT1

1400 - 1415	PID:191	Cross Gender Voice Morphing using Canonical Correlation Analysis (Irum Baseer and Rabeea Basir)
1415 - 1430	PID:213	Name Spotting Over Low Signal-to-Noise Ratio (SNR) using Blind Source Separation and Connectionist Temporal Classification (Syed Suleman Abbas Zaidi, Marium Mehboob Ali, Fakhra Aftab, Yusra Shahid and Dr. Muhammad Khurram)
1430 - 1445	PID:231	Implementation of Wavelet transform for Monitoring of Vital Signs through IR-UWB Radar (Adnan Tariq, Atif Zahid, Ubaid Khan, Naeem Khan and Faheem Khan)
1445 - 1500	PID:247	Selection of EEG Channels based on Spatial Filter Weights (Naveen Masood, Humera Farooq and Irfan Mustafa)
1200 - 1215	PID: 317	Multistage Adaptive Filter for ECG Signal Processing (Rizwan Qureshi, Muhammad Uzair and Khurram Khurshid)
1515 - 1530	PID:368	Comparative study of Features Extraction for speech's emotion at Micro and Macro Level (Mahwish Pervaiz and Alyia Amir)

Technical Session C5 (DSP) - NC8

1400 - 1415		Invited Talk - Dr. S. Waqar ul Quonain: Science through Computational Modelling and Simulation
1415 - 1430	PID:198	Development of a low Cost Wireless IMU using MEMS Sensors for Pedestrian Navigation (Naeem Mumtaz, Sana Arif, Nimra Qadeer and Zeashan Khan)
1430 -1445	PID:226	Simulation and Analysis of Duffing Oscillator using Sliding Mode Control (Abrar Hashmi, Farhan Hanif and A. I. Bhatti)
1445 - 1500	PID:229	Architectural Review of Polynomial Bases Finite Field Multipliers Over $GF(2^m)$ (Malik Imran and Muhammad Rashid)
1500 - 1515	PID:329	Implementation of High Precision Laser Interferometry Algorithm for Real-time Displacement Sensing using Multi-core Architecture (Tassadaq Hussain, Saqib Amin and Usman Zabit)
1515 - 1530	PID:411	Fast Estimation of Feedback Parameters for a Self-Mixing Interferometric Displacement Sensor (Imran Ahmed and Usman Zabit)

Closing Ceremony - Auditorium (1600 - 1700)

1600 - 1630

Keynote Talk - Dr. Ghazali bin Sulong : A New Video Copy-Move Forgery Detection Method Based On Optical Flow Concepts

1630- 1635

Closing Notes by Conference Chair

1635 - 1640

Address by Conference Patron

1640 - 1650

Address by Chief Guest

1650 - 1700

Shield Distribution

Refreshments