

Day 1						
0900-1000	Registration					
1000 ~	Opening Ceremony					
1020-1035	Welcome Address by Principal SMME (Conference Chair iCREATE)					
1035-1050	Address by Chairman IEEE Islamabad					
1050-1120	Keynote address: Prof. Dr. Whoi-Yul Kim. (Hanyang University, Korea)					
1120-1150	Keynote address: Prof. Dr. Mike Stilman. (Georgia Institute of Technology, USA)					
1150-1210	Speech by Rector NUST					
1210-1230	Remarks by Chief Guest					
1230-1400	Lunch					
	Seminar Hall (Room # 406)		Room # 407		Room # 408	
1400-1420	Teerath Das, Bishwajeet Pandey, Tanesh Kumar, Parkash Kumar and Love Kumar. Simulation of SSSL IO Standard Based Power Optimized Parallel Integrator Design on FPGA	South Asian University, India	Imran Sajjad and Muhammad Khurram Shahzad. Biped Simulation with Robotics Toolbox for MATLAB	LUMS SSE, Pakistan	Sajid Hussain, Kunwar Faraz, Noaman Mehmood and Saad Hasan. Driving Space Detection for Structured Outdoor Environment using Monocular Vision	E&ME College, NUST, Pakistan
1425-1445	Noman Naseer, Keum-Shik Hong, Muhammad Raheel Bhutta and Muhammad Jawad Khan. Improving classification accuracy of covert yes/no response decoding using support vector machines: an fNIRS study	Pusan, National University, Korea	ZainMurtaza, Mohsin Jamil and Yasar Ayaz. Design and Implementation of Low Cost Remote-Operated Unmanned Ground Vehicle (UGV)	SMME, NUST, Pakistan	Bushra Ashraf, Hafiza Amna Owais, Sakina Saifuddin and Syed Abbas Ali. Speech Recognizer for Regional Languages of Pakistan	NEDUET, Pakistan
1450-1510	Ali Bin Junaid, Tahir Rasheed, Sanan Tahir, Sharjeel Ahmed, Mehreen Sohail, Muhammad Raheel Afzal and Muzaffar Ali. Design and Control of Artificial Robotic Hand	Gyeongsang, National University, Korea	Tayyab Shahid, Azhar Iqbal and Taha Janjua. Enhancement of the Sensitivity of a Piezoresistive Sensor using SCR's Orientation	E&ME College, NUST, Pakistan	Javeria Farooq and Muhaddisa Barat Ali. Real Time Hand Gesture Recognition for Computer Interaction	BUIITEMS, Pakistan
1510-1540	High Tea					
1540-1600	Tanesh Kumar, Madhu Maya Limbu, Akash Kumar, Bishwajeet Pandey and Teerath Das. Simulation of HSTL IO Standard Based Energy Efficient Frame Buffer For Digital Image Processor	South Asian University, India	Noaman Mehmood, Faheem Ijaz and Zain Murtaza. Analysis of End-Effector Position and Orientation for 2P-3R Planer Pneumatic Robotic Arm	SMME, NUST, Pakistan	Salman Khalid and Sharif Khan. Application of Compressed Sensing on Images via BCH Measurement Matrices	CASE, Pakistan
1605-1625	Tanesh Kumar, Bishwajeet Pandey, Teerath Das, Sweety Dabas and Parkash Kumar. Simulation of Voltage Based Efficient Fire Sensor on FPGA Using SSSL IO Standards	South Asian University, India	Daniyal Ahmed, Fazal Karim and Aftab Ahmad. Design and Modeling of Low-Speed Axial Flux Permanent Magnet Generator for Wind Based Micro-Generation Systems	CESAT, Pakistan	Muhammad Bilal Khan. A Theoretical Model, Representing the Sensor Based Sheet for Machines, in Object Detection/Perception	NAMAL College, Pakistan
1630-1650	Mazhar Hussain Malik, Qasim Awais, Arun Dhyani and Mohsin Jamil. Performance Analysis of Proactive and Reactive Protocols in Mobile Ad-hoc Networking: A Simulation based Analysis	Universit Ca' Foscari Venezia, Italy	Hamid Saeed Khan and Mohammad BilalKadri. Fuzzy Scheduled Gain Middleware for Networked Control Systems	PNEC, NUST, Pakistan	Munezza Ata Khan, Muhammad Hassan Ul Ifikhar, Sadia Malik, Saima Islam, Syed Omer Gilani and Umar Ansari. Detection and Characterization of Antinuclear Antibody using Fluorescence Image Processing	SMME, NUST, Pakistan
Day 2						
	Seminar Hall (Room # 406)		Room # 407		Room # 408	
0930-1000	Keynote address: Prof. Dr. Suleman Mazhar. (GIKI, Pakistan)					
1000-1020	Muhammad Raheel Bhutta, Keum-Shik Hong, Noman Naseer and Muhammad Jawad Khan. Water Correction Algorithm to Improve Signal Strength of Oxy and Deoxy- Hemoglobin in Near-Infrared Spectroscopy	Pusan, National University, Korea	Bilal Ahmed Bhatti, Muhammad Umer, Waqar Ahmed, Muhammad Hammad Tariq and Usman Ali. Carrier and symbol synchronization in digital receivers using feedback compensation loop and early late gate on FPGA.	NUST, Pakistan	Osama Jamil, Khabab Ahmad, Mohsin Jamil and Yasar Ayaz. Modeling, Control of a two-wheeled selfbalancing robot	SMME, NUST, Pakistan
1025-1045	Safdar Zaman and Peter Lepej. ROS-Based Diagnosis Board for Detecting and Repairing Hardware Faults in Autonomous Mobile Robots	Technical University Graz, Austria	Adeel Wahab and Azfar Khalid. Non-contact metrology inspection system for precision micro products	E&ME College, NUST, Pakistan	Muhammad Sami Siddiqui, Habib Ahmed, Ali Bin Wahid, Usama Siraj, Faizan Ahmed, Shahab Shahid and Syed Irtiza Ali Shah. Pose Recognition using Cross Correlation for Static Images of Pakistani Sign Language	SMME, NUST, Pakistan
1050-1110	Ikrumulhah Khosa and Eros Pasero. Artificial Neural Network Classifier for Quality Inspection of Nuts	Politecnico di Torino, Italy	Ammar Ahmed, Muhammad Faisal Khan and Muhammad Tufail. Multiple Invariance Cumulant ESPRIT for DOA Estimation	PIEAS, Pakistan	Hafiz Saad Masood, Majid Parvez Qureshi, M. Bilal Shah, Salman Ashraf, Zahid Halimand Ghulam Abbas. Dynamic Time Wrapping based Gesture Recognition	GIKI, Pakistan
1110-1140	High Tea					
1140-1210	Keynote address: Prof. Dr. Nikolaos Mavridis. (NCSR Demokritos, Greece)					
1210-1230	Amir Salarpour, Hassan Khotanlou and Nikolaos Mavridis. Long-term estimation of human spatial interactions through multiple laser ranging sensors	IRML, NCSR, Demokritos, Greece	Aitizaz Ali, Ghulam Abbas, Zahid Halim and Muhammad Afaq. A two-relay asymmetric diamond cooperative diversity system over Rayleigh fading channels	GIKI, Pakistan	Muhammad Affan Zia, Yasar Ayaz, Umar Ansari, Mohsin Jamil and Omer Gilani. Face and eye detection in images using skin color segmentation and circular Hough transform	SMME, NUST, Pakistan

1235-1255	Fateh Muhammad, Nasir Rashid, Hafsa Akhtar, Zarmina Muhammad, Syed Omer Gilani and Umar Ansari. Evaluation of LDA, QDA And Decision Trees for Multifunctional Controlled Below Elbow Prosthetic Limb Using EMG Signals	NORI, Pakistan	Muhammad Aun Khan, Muhammad Shahid Nazir and Muhammad Aqil. Online identification of a system having shared band noises	PIEAS, Pakistan	Nabiha Iqbal, Kashif Zafar and Waqas Zyad. Multi-Objective Optimization of Test Sequence Generation using Multi-Objective Firefly Algorithm (MOFA)	FAST, Pakistan
1300-1320	Shahwar Yaseen, Yasar Ayaz, Khawaja Fahad Iqbal, Naveed Muhammad, Syed Omer Gilani, Mohsin Jamil and Irtiza Ali Shah. Centre of Mass Avoidance Planner using Radius of Gyration for Reciprocal Velocity Obstacles	SMME, NUST, Pakistan	Fahad Rasool, Muhammad Nabeel and Ali Imran Najam. Filtration of Faulty Dried Plates of Lead-Acid Battery with Digital Image Processing	UET Peshawar, Pakistan	Muhammad Umair Akhlaq, Umer Izhar and Umar Shahbaz. Depth Estimation from a Single Camera Image using Power Fit	E&ME College NUST, Pakistan
Lunch						
Keynote address: Prof. Dr. Andrew Pinkerton. (Lancaster University, UK)						
1500-1520	Nikolaos Mavridis and Thirimachos Bourlai. Granting Space and Time to Words: Blind Semantic Spatial Localization for the case of Facial Images	IRML, NCSR, Demokritos, Greece	Hussain Syed Asad and Muhammad Bilal Kadri. Control of Under-Actuated Two-Link ROBOT with Hybrid LQ-Fuzzy Controller	PNEC, NUST, Pakistan	Naila Sharif, Kashif Zafar and Waqas Zyad. Optimization of Requirement Prioritization using Computational Intelligence Technique	FAST, Pakistan
1525-1545	Muhammad Imran Ullah, Syed Ali Ajwad, Raza Ul Islam, Usama Iqbal and Jamshed Iqbal. Modeling and Computed Torque Control of a 6 Degree of Freedom Robotic Arm	COMSATS, Pakistan	Amjad Nawaz and Azfar Khalid. Sensorless control of DC motor using Kalman Filter for low cost CNC machine tool	UET Taxila, Pakistan	Samina Hanif. Ant Tracking Algorithm for Surface Discontinuity Extraction-Faults Detection	MCS, NUST, Pakistan
1550-1610	Hussain Syed Asad, Muhammad Bilal Kadri and Ayesha Rab. Close Loop Performance Analysis of Under-Actuated Two-Link Robot over Networked Control System	PNEC, NUST, Pakistan	Faheem Ijaz, Mohsin Jamil and Yasar Ayaz. Developments in Adaptive Control Techniques for Machine Tools	SMME, NUST, Pakistan	Usman Sheikh, Mohsin Jamil and Yasar Ayaz. A Comparison of Various Robotic Control Architectures for Autonomous Navigation of Mobile Robots	SMME, NUST, Pakistan
High Tea						
Day 3						
Seminar Hall (Room # 406)		Room # 407			Room # 408	
Keynote address: Prof. Dr. Alberto Brunete. (Universidad Politécnic de Madrid, Spain)						
1000-1020	Muhammad Jawad Khan, Keum-Shik Hong, Muhammad Raheel Bhutta and Noman Naseer. fNIRS based dual movement control command generation using prefrontal brain activity	Pusan, National University, Korea	Niaz Mehdi, Muhammad Rehan, Fahad Mumtaz Malik, Muhammad Salman and Nadeem Qaiser. Antiwindup compensator schemes for DC servo motor speed control system	E&ME College, NUST, Pakistan	Muhammad Zohaib, Syed Mustafa Pasha, Hafza Bushra, Kamil Hassan and Jamshed Iqbal. Addressing Collision Avoidance and Nonholonomic Constraints of a Wheeled Robot: Modeling and Simulation	COMSATS, Pakistan
1025-1045	Syed Sana, Khan Zeeshan, Salman Muhammad, Aziz Arsalan and Ali Usman. Adaptive Flight Control of an Aircraft with Actuator Faults	E&ME College NUST, Pakistan	Zaid Ahsan Shah, Talha Abdulqayyum and Syed Irtiza Ali Shah. A Distributed Approach for Solving the Position Inverse Kinematics of Mobile Parallel Manipulators	SMME, NUST, Pakistan	Talha Shahid and Umar Khan. Design of a Low Cost Multi Degree of Freedom Hand Exoskeleton	E&ME College NUST, Pakistan
1050-1110	Umair Iqbal, Syed Irtiza Ali Shah, Fazal-E-Umer Rai, Mohsin Jamil and Yasar Ayaz. Development of Low Cost Range Testing System for Unmanned Disaster Relief Helicopter	SMME NUST, Pakistan	Ammar Ahmed, Muhammad Kamil Zia and Muhammad Tufail. Subspace based Widely Linear Frequency Estimation in Sustainable Energy Systems	PIEAS, Pakistan	Ramish Chouhan, Farah Kanwal, Siraj Ali and Nida Ali. Design and Development of a Prototype Robotic Gripper	K Electric, Pakistan
High Tea						
Keynote address: Prof. Dr. Abubakr Muhammad. (LUMS, Pakistan)						
1210-1230	Oscar Pascual, Alberto Brunete and Mohamed Abderrahim. Integration of low-cost supervisory mobile robots in domestic wireless sensor networks	UC3M, Spain	Rizwan Arshad, Salman Tariq, Muhammad Umair Niaz and Mohsin Jamil. Improvement in solar panel efficiency using solar concentration by simple mirrors and by cooling	UET Taxila, Pakistan	Muhammad Yaqoob, Rushan Sher Qaisrani, Muhammad Waqas, Yasar Ayaz, Sohail Iqbal and Sajid Nisar. Control of Robotic Arm Manipulator with Haptic Feedback Using Programmable System on Chip	SEECs, NUST, Pakistan
1235-1255	Hamda Khan and Zafar Koreshi. Optimal Tracking of a Mobile Robot with Path Determined by Random Particle Optimization and Genetic Algorithms	Air University, Pakistan	Saeed Iqbal, Umair Iqbal, Muhammad Saeed, Malik Ashter Mehdy and Mubeen Umar. Design, Fabrication and Analysis of Solar Parabolic Trough Collector for Steam Engine	CES, NUST, Pakistan	Hafsa Ahmad, Aqsa Shakeel, Abubakar Yamin, Syed Omer Gilani and Umar Ansari. Detection of Glaucoma Using Retinal Fundus Images	SMME, NUST, Pakistan
1300-1320	Muhammad Raheel Afzal, Ali Bin Junaid, Amre Eizad, Jungwon Yoon and Zafar Ullah Koreshi. A Cost Effective Design and Analysis of an Active Prosthetic Knee for Transfemoral Amputees	Gyeongsang National University, Korea				
Lunch						
Closing Ceremony						
Keynote address: Prof. Dr. Wang Tianmiao. (Beihang University, China)						
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