March $27^{th} - 28^{th}$

ICE(TE)² 2018

INTERNATIONAL CONFERENCE ON EMERGING TRENDS IN TELECOMMUNICATION AND ELECTRONIC ENGINEERING ICE (TE)²

NED University of Engineering & Technology, University Road, Karachi



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Dr. Asad Arteen, Assistant Professor, Department of Computer and Information Systems Engineering

Dr. Sana Arshad, Assistant Processor

About Karachi

Karachi is an ever growing metropolitan city of over 20 million people. It is the most populous city of Paksitan and sixth most populous metropolitan city in the world. It is located on the southern coastline and is the provincial capital of Sindh. The city is Pakistan's premier industrial and financial center. Karachi is also Pakistan's most cosmopolitan city. It accommodates various industry zones, two sea ports, an international airport and a sophisticated network of roads and rail connecting the city to the rest of the country.

In collaboration with









TECHNOLOGY LINKS

ICE (TE)²

International Conference on Emerging

Trends in Telecommunication and

Electronic Engineering

27th - 28th Feb 2018, NED UNIVERSITY of Engineering and Technology

About NED UNIVERSITY OF ENGINEERING & TECHNOLOGY

NED University is one of the oldest engineering institutions of Pakistan. Currently, it is offering Bachelors, Masters and Doctorate programmes in various Disciplines in Engineering and Sciences. The University aspires to prepare its students to excel professionally as well as contribute to research and development in their respective fields. Throughout the year, numerous seminars, trainings, conferences and competitions are held to promote the research culture at NED University contributing to socio-economic development.

About Department of Electronic Engineering

The Department of Electronic Engineering was established in 1999 with its first batch comprising of 70 undergraduate students. The department is also administering the Telecommunication Engineering Programme since July 2007. Currently, the Department is offering undergraduate and Post-graduate Program in Electronic and Telecommunication Engineering as well as Doctorate Programme in Electronic Engineering.

About ICE(TE)²:

Department of Electronic Engineering, NED University of Engineering and Technology is going to organize the International Conference on Emerging Trends in Telecommunication and Electronic Engineering on 27th-28th February 2018 in main campus of NED University of Engineering & Technology. The Conference will be a two-day event spread over an inaugural and multiple technical sessions. The conference provides a platform that invites people locally and internationally to present and discuss about the emerging trends and innovations in the fields of Telecommunication and Electronics Engineering. NED University has been involved with various conferences of international scope regarding Engineering and Technology and this conference is expected to carry similar scope. The students, researchers, industrialists and career professionals attending this event would enthusiastically appreciate the material that will be presented in this international conference. Authors are invited to submit their original technical papers to the conference.

Scope and Areas of Interest:

The conterence primarily covers all areas of Electrical, Electronic Telecommunication, & Computer Engineering. Submitted Papers may belong to, but not limited to the below mentioned areas of interest:

Electronic Engineering Applications Telecommunication Engineering Applications Nanotechnology Biometric and Bio sensors Material engineering Metamaterials Wireless and Cognitive Systems Quantum Mechanics Information and Communication Technologies Signal, Image and Speech Processing Artificial Intelligence Stochastic Modeling Application in Engineering Robotics and Mechatronics Internet of Things Computer Networks and Security Smart Devices and Applications Green Communications Power Electronics Instrumentation and Calibration Geographical Information Technologies Biomedical Engineering Alternate Energy RF Engineering Optical Engineering

Instructions for Author(s)

Manuscript template is available and can be downloaded from the conference website (www.etrg.pk). Authors are requested to submit full and formatted paper, before the submission deadline. Details of paper submission process are available on conference website. For more details please contact; Email: icte@neduet.edu.pk Phone: +92-21-99261261 ext: 2270

Important Dates

Full Paper Submission Full Paper Acceptance Camera Ready Submission Early Bird Registration Deadline Final Registration Deadline

Registration Fees

Presenters/Authors	Gratis
Early Bird Registrations	PKR 1000
Late Registrations	PKR 2000
Students / PhD. Scholars / Faculty	PKR 1000

Committees

Patron-in-Chief: Prof. Dr. Sarosh Hashmat Lodi, Vice Chancellor, NEDUET. Co-Patron: Prof. Dr. Muhammad Tufail, Pro-Vice Chancellor, NEDUET. Vice Patron: Prof. Dr. Saad Ahmed Qazi, Dean, Electrical and Computer Engineering, NEDUET. Conference Chair: Prof. Dr. Syed Muhammad Usman Ali Shah, Chairman, Electronic Engineering Department, NEDUET. Co-Chair: Dr. Ghous Baksh, Department of Electronic Engineering, NEDUET. Co-Chair: Dr. Irfan Ahmed, Department Of Electronic Engineering, NEDUET. Co-Chair: Dr. M. Imran Aslam, Department Of Electronic Engineering, NEDUET. Co-Chair: Dr. Muhammad Fahim ul Hague, Department Of Electronic Engineering, NEDUET. Secretary: Dr. Tahir Malik, Department Of Electronic Engineering, NEDUET.

Advisory Board

Dr. Uda Hashim Deputy Vice Chancellor, Research and Innovation, University of Malaysia Perlis. Dr. Arfan Ghani Associate Professor, Conventry University, UK. Dr. Jahanzeb Ahmad Vision Design Engineer, Intel Corporation. UK. Prof. Dr. Raza Ali Jafri, Chairman, Department of Bio-Medical Engineering, NEDUET Mr. Gohar Ahmed Khan, Snr. Instrumentation Manager. Otsuka Pharmaceuticals Mr. Ashar Hayat Siddiqui, GM, KTR-1, PTCL Mr. Zulfigar Haider Nagvi, Fauji Fertilizers Dr. Najmi Ghani Haider, Professor, Department of Computer Science and Software Engineering, NEDUET Dr. Muhammad Ali Memon, Associate Professor, Department of Electrical Engineering Dr.-Ing, Shahzad Hasan, Associate Professor, Department of Computer and Information Systems Engineering

22nd January 2018 5th February 2018 10th February 2018 1st - 10th Feb 2018 25th February 2018

Conference Programme

The conference will be a two-day event comprising of inaugural and multiple technical sessions. The tentative programme of the conference is as follows:

Day1:27th February 2018

09:00AM -09:45AM	09:00AM-09:45AM Registration					
Inaugural Session (10:05AM - 11:45AM)Venue: NED Main Auditorium						
09:55AM - 10:00AM	National Anthem					
10:00AM - 10:05AM	Recitation from the Holy Quran					
10:05AM - 10:15AM	Welcome Address by Parton-In-Chief					
10:15AM - 10:35AM	Talk by KE representative					
10:35AM - 11:05AM	Keynote Speech I	Keynote Speech I				
	Prof. Dr. Uda Bin Hashim (Deputy Vice Chancellor, UniMAP, Malaysia)					
	Topic: Nano Lab-on-Chip for Nano Sensing and Control of Oil Palm Disease in Agricultural Application.					
11:05AM - 11:20AM	Address by Chief Guest					
11:20AM - 11:25AM	Vote of Thanks by Conference Chair					
11:25AM - 11:30AM	Shield Distribution to Chief Guest and Sponsors					
	Hi-Tea (11:30AM - 12:15AM)					
12:15AM - 12:45AM	Keynote Speech II					
	Dr. Jahanzeb Ahmad (Vision Design Engineer, Intel Corporation, UK)					
	Topic:Field Programmable Gated Array's (FPGA) for Con	mplex Processing and Lo	w Latency Requirements.			
12:45AM - 01:15PM	Keynote Speech III					
	Imran Khan (Managing Director at Rapid Compute)					
	Topic: Cloud as an Enabler of Acceleration and Innovation	n.				
	Lunch (01:15P	M - 02:15PM)				
	Venue: NED Main Auditorium Venue: Civil AV Hall					
02:15PM - 03:00PM	Guest Lecture I					
	Prof. Dr. Ted Johansson					
	(Adjunct Professor, Linköping University, Sweden)					
	Topic:Power Efficient RF Power Amplifier	02:15PM - 03:45PM	Entrepreneur Session I			
03:00PM - 03:45PM	Guest Lecture II	02:15FM - 05:45FM	Endepreneur Session 1			
	Dr. Hiro Takahashi (Associate Professor, DHA Suffa					
	University, Pakistan)					
	Topic: Artificial Intelligence.					
	Tea Break (03:45	5PM - 04:15PM)				
	Venue: NED Main Auditorium		Venue: Civil AV Hall			
04:15PM - 05:15PM	<u>Technical Session I</u> (Communication Technology)	04:15PM - 05:15PM	Entrepreneur Session II			

International Conference on Emerging Trends In Telecommunication and Electronic Engineering IC(TE)²

Day2:28th February 2018

09:00AM -09:30AM	Registration						
	Venue: NED Main Auditorium	Venue: Civil AV Hall	Venue: CIS Lecture Hall				
09:30AM - 11:00AM	<u>Technical Session II</u> (Signal Processing Session)	White Paper Session	<u>Technical Session III</u> (Machine Learning & Robotics)				
	Tea Break (11:00PM - 11:30PM)						
11:30AM - 12:00PM	United States Education Foundation Pakistan Session	Technical Session V	Technical Session VI				
12:00AM-01:00AM	<u>Technical Session IV</u> (Integrated Circuits and Nano Technology)	(Internet of Things)	(Electrical System and Renewable Energy)				
	L	unch (01:15PM - 02:15PM)	•				
	Venue: NED Main Auditorium	Venue: Civil AV Hall	Venue: CIS Lecture Hall				
02:00PM-03:30PM	Industrial Session I	<u>Technical Session VII</u> (Communication Technology)	Industrial Session II				
Tea Break (03:30PM - 04:00PM)							
	Closing Ceremony(04:0	00PM - 05:15PM)Venue: NED Main Auditorium					
04:00PM - 04:30 PM	Dr. Arfan Ghani (Associate Professor Coventry University, United Kingdom)						
04:30PM - 05:00 PM	<u>Topic:</u> The Future of Healthcare Electronics-Opportunities and Challenges. Keynote Speech V Prof. Dr. Muhammad Hassan Sayyad (Dean FES, GIK Institute)						
05:00PM - 05:10PM	Topic: Organic Electronics and Photonic Devices: Materials, Designs, Fabrication, Characterization, Optimization and Research Needs. Prize Distribution Ceremony						
05:10PM - 05:15 PM	Closing Words						



ENTREPRENEUR SEMINARS

INTERNATIONAL CONFERENCE ON EMERGING TRENDS IN TELECOMMUNICATION AND ELECTRONIC ENGINEERING





DATES AND TIMINGS: 27th February 2018, Tuesday (02:15 to 05:15 P.M.) <u>VENUE</u>: CIVIL ENGINEERING DEPARTMENT LECTURE HALL, NEDUET <u>REGISTRATION:</u> Visit Electronic Engg. Department





GUEST LECTURE SESSIONS INTERNATIONAL CONFERENCE ON EMERGING TRENDS IN TELECOMMUNICATION AND ELECTRONIC ENGINEERING ICE

SPEAKERS:



Ted Johansson, Docent, Linkoping University,

Sweden

'Power Efficient CMOS Power Amplifier"





DATES AND TIMINGS: 27th February 2018, Wednesday (02:15 to 03:45 P.M.) **VENUE: NEDUET MAIN AUDITORIUM REGISTRATION: Visit Electronic Engg. Department**





SPEAKERS:

KEYNOTE SPEAKERS

INTERNATIONAL CONFERENCE ON EMERGING TRENDS IN TELECOMMUNICATION AND ELECTRONIC ENGINEERING





Prof. Dr. Uda bin Hashim **Deputy Vice Chancellor** University of Malaysia, Perlis, Malaysia "Nano Lab-on-Chip for

Nano Sensing and Control" Electronics: Opportunities

VENUE: NEDUET MAIN AUDITORIUM

REGISTRATION: Visit Electronic Engg. Department



Vision Design Engr. Intel Corporation UK

"The Future of Healthcare and Challenges"

Mr. Imran Khan Managing Director RapidCompute, Cybernet

"Cloud as an Enabler of Acceleration and Innovation'



Prof. Dr. Muhammad Hassan Sayyad Dean, GIK Institute Pakistan **"Organic Electronics**

& Photonic Devices"



28TH FEBRUARY'18,16:00-17:00 hrs

Dr. Arfan Ghani Associate Professor **Coventry University** UK

'FPGA for Complex Processing and Low Latency Requirements





FULLBRIGHT SCHOLARSHIP SESSION



INTERNATIONAL CONFERENCE ON EMERGING TRENDS IN TELECOMMUNICATION AND ELECTRONIC ENGINEERING

SPEAKER PROFILE: Faraz Hussain, Senior EducationUSA Adviser

USEFP, Karachi



DATES AND TIMINGS: 27th February 2018, Tuesday (03:45 to 04:15 P.M.) and 28th February 2018, Wednesday (11:30 to 12:00 noon)

VENUE: NEDUET MAIN AUDITORIUM, NEDUET



News Article

INTERNATIONAL CONFERENCE ON EMERGING TRENDS IN TELECOMMUNICATION AND ELECTRONIC ENGINEERING ICE (TE)²

NED UNIVERSITY OF ENGINEERING AND TECHNOLOGY, KARACHI

27th -28th Feb 2018 – Karachi: International Conference on Emerging Trends in Telecommunication and Electronic Engineering ICE (TE)² 2018 was held at NED University of Engineering and Technology on 27th and 28th February 2018. The conference has been organized by Emerging Technologies Research Group, Department of Electronic Engineering, NED University of Engineering and Technology in collaboration with Higher Education Commission, Islamabad. The inaugural ceremony of the conference was held at NED University of Engineering and Technology Main Auditorium Karachi. The Minister of State for finance and economic affairs, Mr. Rana Muhammad Afzal Khan graced the inaugural ceremony as the Chief Guest. He was accompanied by the Patron-in-Chief, Prof. Dr. Sarosh Hashmat Lodi, Vice Chancellor, NEDUET, Co-Patron, Prof. Dr. Muhammad Tufail, Conference Convener, Prof. Dr. S.M. Usman Ali, and other dignitaries. The inaugural ceremony was also attended by many distinguished members of Academia and Industry and hundreds of students and researchers. The ceremony started with the opening address of the Patron-in-Chief, Prof. Dr. Sarosh Hashmat Lodi. Then, Head of Planning and Engineering, K-Electric, Mr. Waqas bin Najib shared his views on the conference. This was followed by the conference keynote speech by Prof. Dr. Uda bin Hashim, Deputy Vice Chancellor, University of Malaysia, Perlis, Malaysia. Afterwards, the chief guest, Mr. Rana Afzal Khan, was invited to share his views where he thanked the management for inviting him, shared his cherished memories of time spent in NEDUET as a student and stressed upon investing ones energy and resources for the betterment and development of the country.

The Conference Convener, Prof. Dr. S.M. Usman Ali, chairman, Electronic Engineering Department, NEDUET, presented his Vote of Thanks and emphasized on the need for preparing for the next generation industrial revolution in the fields of telecommunication and electronic engineering in order to meet the challenges after 2020. He also expressed gratitude to the Chief Guest, Patron, co-patron, Keynote speakers, organizing committee, paper authors and presenters, Sponsors and other guest speakers.

The ceremony concluded with Shields distribution to Chief Guest, Patron-in-Chief, Co-Patron and Sponsors. The inaugural ceremony was followed by two keynote speeches, by Dr. Jahanzeb Ahmed from Intel, UK and Mr. Imran Khan, MD, Rapidcompute. Later that day, two international researchers, Dr Ted Johannson from Linkoping University, Sweden and Dr. Hiranao Takahashi, from DHA Suffa University conducted guest lecture sessions.

Other conference keynote speeches were delivered by Dr. Jahanzeb Ahmed, Vision Design Engineer from Intel, UK, Prof. Dr. M. Hassan Sayyad, Dean, GIK Institute, Dr. Arfan Ghani, from Coventry University, UK and Mr. Imran Khan, Managing Director of RapidCompute. The conference also had an Entrepreneurs session with seven motivational speeches form distinguished entrepreneurs, Talks from industrial representatives and a White papers session. Besides, seven technical sessions targeting different fields of Telecommunication and Electronic Engineering were conducted, where the authors of selected research papers presented their work and shared their knowledge with the audience.

The conference concluded with the vote of thanks by the conference secretary.

Selected Pics of the event

