



The Institution of Engineers (India)

A Century of Service to the Nation

39th National Convention of Electronics & Telecommunication Engineers

on

Internet of Things (IoT) Reconnecting the World

October 05-06, 2024 New Delhi



Organised by

The Institution of Engineers (India)

DELHI STATE CENTRE

Under the Aegis of

Electronics and Telecommunication Engineering Division Board, IEI

In association with :



Delhi Technological University



Rajasthan Technical University, Kota

Venue

Engineers Bhawan, 2 Bahadur Shah Zafar Marg, New Delhi - 110002

ABOUT THE INSTITUTION OF ENGINEERS (INDIA)



The Institution of Engineers (India) or IEI is the largest multidisciplinary professional body that encompasses 15 engineering disciplines and gives engineers a global platform for sharing professional interest. IEI has membership strength of above 0.8 million. Established in 1920, with its headquarter Kolkata, IEI has served the engineering fraternity close to a century. During this period of time, IEI has been inextricably linked with the history of modern-day engineering.

In 1935, IEI was incorporated by Royal Charter and remains the only professional body in India which has been accorded this honour. Today, its quest for professional excellence has given it a place of pride in almost every prestigious and relevant organization across the globe. It provides a vast array of technical, professional and supporting services to the Government, Industries, Academia and the Engineering fraternity, operating through its 124 Centres located across the country and 6 overseas chapters. Besides, IEI has bilateral agreements with about 31 international bodies and membership of another 8 international bodies of the developed nations across the globe.

Being recognized as a Scientific and Research Organisation (SIRO) by the Department of Scientific and Industrial Research, Ministry of Science and Technology, Government of India, IEI promotes the cause of research and development by providing Grant-in-Aid support to undergraduate, post graduate students and PhD Research Scholars of Engineering Institutions and Universities.

IEI has been recognized as Scientific and Industrial Research Organization (SIRO) by the Ministry of Science & Technology, Government of India and besides conducting its' own research, provides Grant-in-Aid to UG/PG/PhD students of Engineering institutes and Universities.

IEI holds the International Professional Engineers (IntPE) Register for India under the global International Professional Engineers Alliance (IntPEA). The institution also awards the Professional Engineers (PE) Certification.

IEI in collaboration with Springer regularly publishes peer-reviewed international journal in five series, namely, Series A, Series B, Series C, Series D and Series E covering fifteen engineering disciplines.

ABOUT DELHI STATE CENTRE, IEI

Delhi State Centre has a history of nearly 90 years. Located at ITO, it is a landmark in the city of Delhi. It has played a crucial role in uniting various professional societies right from its inception.

The Delhi State Centre is the most active centre in the country and has been serving the society in general and the engineering community in particular with the said objectives and plays a significant role in dissemination and proliferation of knowledge amongst its members. With a modest membership to start with, the centre has brought into its fold a large section of fraternity with a membership strength of more than 9000 Corporate Members widening its horizon of technical activities. Delhi State Centre has organized various successful activities which include International and National Conferences, Indian Engineering Congress, All India Seminars, Round Table Conferences, Handson Cum-Skill Development Programme and Workshops relating to different strategy of engineering and having crucial impact on society.

ABOUT THE ASSOCIATE ORGANISATION

Rajasthan Technical University (RTU)



Rajasthan Technical University (RTU) is located in Kota in the state of Rajasthan. It was established in 2006 by the Government of Rajasthan to enhance the technical education in the state. The university has been established in the campus of University College of Engineering, Kota (previously known as Engineering College, Kota), which is located on the Rawatbhata Road, about 14 kms from Kota Railway Station and 10 kms from Kota Bus Stand. The university currently affiliates about 68 Engineering Colleges, 03 B.Arch, 16 MCA Colleges, 39 MBA Colleges, 31 M.Tech Colleges, 01 M.Arch and 01 Hotel Management and Catering Institute. More than 1.5 lacs students study in the various institutes affiliated to the University. The University aims to provide quality technical education which may help Rajasthan in its technical development and will boost technical environment in the country.

The University offers almost all the disciplines related to technical education including Bachelor of Technology, Master of Technology, Master of Business Administration, Master of Computer Applications, and Bachelor of Hotel Management and Catering Technology. The Hon'ble Governor of Rajasthan His Excellency Shri Kalraj Mishra is the Chancellor, and Prof. R.A. Gupta is the Vice-Chancellor of the University. Thousands of students graduate from the University

every year and many attain post graduation. The University is making steady progress in developing and providing best technical environment for education and will continue to serve the nation in coming years.

Delhi Technological University



Delhi Technological University has an illustrious history of providing quality education and promoting research and entrepreneurship for over eight decades.

With 82 years of its long-established tradition of excellence in engineering & technology education, research and innovations, Delhi College of Engineering, (initially established with the name – Delhi Polytechnic) came into existence in the year 1941 to cater the needs of Indian industries for trained technical manpower with practical experience and sound theoretical knowledge. The institution was set up at historic Kashmere Gate campus as a follow up of the Wood and Abbott Committee of 1938. It comprised of a multi-disciplinary and multi-level institution offering wide ranging programmes in engineering, technology, arts and sculpture, architecture, pharmacy and commerce. The national diploma awarded by the institution was recognized as equivalent to degree level for the purposes of employment. In 1952 the college was affiliated with University of Delhi and started formal Degree level Programmes.

Till 1962, the college was under the direct control of Ministry of Education, Government of India. In 1963, the administration of the college was handed over to Delhi Administration. Delhi College of Engineering was under the administrative control of Department of Technical Education & Training, Govt. of NCT of Delhi. For academic purposes, the college was affiliated to University of Delhi since 1952. From July 2009, the DCE has become Delhi Technological University vide Delhi act 6 of 2009. The erstwhile DCE has functioned from its historic Kashmere Gate Campus for almost 55 years and has shifted in 1996 to its lush green sprawling campus of 164 Acres at Bawana Road, adjoining Sector-17, Rohini, Delhi-42. Its shifting to new campus has added the dimension of research and caused innovations in plenty, which has received high national and international acclaim. As Delhi Technological University, it has the desired autonomy to excel and shape itself as a world class Technological University.

Upholding and uplifting its long and remarkable history in education and research, the University currently offers various inter-disciplinary and industry relevant programs in Science, Engineering, Management & Allied areas at both the undergraduate and postgraduate level. The university currently offers 15

undergraduate, 30 postgraduate and Ph.D. programs. The ranking of DTU on national and international parameters has been continuously improving. DTU has been ranked as the 6th best institution in the India Today University rankings. With 14000 students on campus, the University is proud of its world class alumni, top placement in reputable companies, growing publications and citations. Working on the principles of integrating diversification and inclusivity in education, the University has been continuously admitting international students from over 50 different countries from the last five years.

ABOUT THE THEME

The Internet of Things (IoT) represents a transformative leap in the digital landscape, marking an era where everything from household appliances to industrial equipment is interconnected and intelligent. Rapidly advancing, this revolutionary technology reshapes our interaction with the world, positioning IoT at the forefront of technological innovation, driving efficiencies, enhancing user experiences, and opening unprecedented opportunities for businesses and consumers.

In today's world, the relevance of IoT is paramount, playing a crucial role in smart city development, healthcare improvements, and enhanced security systems, among many other areas. The integration of IoT devices and systems into daily life leads to smarter, more responsive environments that adapt to human needs, offering significant improvements in energy efficiency, resource management, and convenience. Looking towards the future, the potential of IoT is boundless, with the advent of 5G networks (and the future 6G) and advancements in AI, promising not only to enhance the efficiency and functionality of existing systems but also to spur the innovation of new applications that could transform every aspect of our lives.

The Internet of Things (IoT) is the network of physical objects – devices, vehicles, buildings and other items embedded with electronics, software, sensors, and network connectivity – that enables these objects to collect and exchange data. This fast surging technology will pose some challenges as well as like additional types of logging, log storage, Increased network traffic,



Increased demand for IP addresses, Increased network complexity – should these devices be isolated or segmented? Etc. It misunderstood and misconfigured, IoT poses risk to our data, privacy, and safety. If understood and secured, IoT will enhance communications, lifestyle and delivery of services.

In light of these exciting advancements and the bright future of IoT, it is with great anticipation that The Institution of Engineers (India). Delhi State Centre will organise the National Conference on Internet of Things (IoT) – Reconnecting the World. The convention aims to strengthen partnerships with researchers, vendors and academia to share this platform and be future ready.

SUB THEMES

- Intelligent Traffic Information System Based on Internet of Things (IoT), High Speed Transportation etc.
- Automatic Smart Parking System using Internet of Things (IoT)
- IoT Based Raspberry Pi Home Automation
- IoT Based Agriculture Applications
- Smart Security Solutions based on Internet of Things (IoT)
- IoT based Embedded, controlling of Appliances using GSM/GPRS
- Secured Smart Healthcare Monitoring System based on IoT
- Smart Energy Monitoring System based on IoT
- AI, ML, MIMO based Data communication

CALL FOR PAPERS

Prospective authors are invited to submit manuscripts reporting original unpublished research and recent

REGISTRATION

All delegates and authors attending Convention must register by filling registration form and by paying registration fees by September 30, 2024 as per following details :

Delegates from Industries	: Rs. 2500/- + 18% GST
Delegates from R &D organization and Academic Institutions	: Rs. 2000/- + 18% GST
Corporate Members of IEI	: Rs. 1500/- + 18% GST
Students	: Rs. 750/- + 18% GST

Registration fee includes proceedings, Souvenir, Registration Kit beside Lunch and high tea.



developments in the topics related to the theme of the National Convention but not limited to sub-themes listed above.

Authors should send an Abstract up to 300 words to E-mail : 39ncet@gmail.com. The final paper should be in the format available on website : www.ieidsc.in. All presented papers will be included in the proceedings of the Convention.

For Guidelines for Submission of Papers scan the QR Code



https://www.ieindia.org/webui/IEI-Activities.aspx#Call_Papers

IMPORTANT DATES

Last Date for submitting Abstracts	August 12, 2024
Intimation of Acceptance	August 20, 2024
Submission of full paper with Registration Fee	September 2, 2024
Seminar Dates	October 5-6, 2024

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CONTACT DETAILS

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Thirty-ninth National Convention of Electronics & Telecommunication Engineers



on

Internet of Things (IoT) Reconnecting the World

05-06 October, 2024 • New Delhi

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