



TENSYPMP 2024

Prof. Prerna Gaur, General Chair



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Brief Report about TENSYP 2024

- ▶ TENSYP 2024 was held across two distinguished venues, with Day 1 at ITC WelcomHotel, Dwarka, New Delhi, and Day 2 and Day 3 at Netaji Subhas University of Technology (NSUT), Dwarka, Sector 3, New Delhi, from September 27th to September 29th, 2024.
- ▶ With over 900 paper submissions from 44 countries worldwide, a total of 350 were accepted, and finally, 238 papers were registered for presentation, 63 of which were delivered online, effectively.
- ▶ The Technical Program consists of Eminent researchers from different fields, including six technical societies from where the ensuring the high quality of content TENSYP is known for.

TRACKS

TENSYPM aims to provide an active platform to research scientists, engineers, and practitioners that empowers them to showcase their innovation work across diverse tracks. Each track is thoughtfully designed to facilitate meaningful discussions and collaboration in areas ranging from cutting-edge technology to social impact and artistic expression. Prospective authors are invited to submit original research papers (not being considered for publication elsewhere) in standard IEEE conference template describing new theoretical and experimental research results in the following tracks:

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- 01 Computer and Information Technology**
- 02 Data Science, Cloud and Big Data Analytics**
- 03 Electronics, VLSI Technology & Embedded System**
- 04 Power, Energy and Power Electronics**
- 05 Communication and Signal Processing**
- 06 Intelligent Control and Instrumentation**
- 07 Biomedical Engineering and Healthcare Technologies**
- 08 WIE, Industry, HTC, Education**



Inauguration 27th Sept 2024

- ▶ Inauguration on September 27th, 2024, at ITC WelcomHotel, Dwarka, **in the presence of Dr. V. Narayanan, Chairman ISRO.**

Other notable guests:

- ▶ Er. Narsimhan Chair, Grid India,
- ▶ IEEE Vice President MGA Mr. Deepak Mathur,
- ▶ and IEEE Region 10 Director Prof. Lance Chun Che Fung
- ▶ The Vice Chancellor of NSUT, Prof. Anand Srivastava, and
- ▶ Pro-Chancellor Dr. Madhu Chitkara,
- ▶ Prof. Prerna Gaur and Prof. Subrata Mukhopadhyay, General Co-Chairs

The poster for the IEEE TENSYP 2024 Inauguration Ceremony features a dark teal background with white and light blue text. At the top, it displays logos for ITSS, ELECTRONICS INDIA SOCIETY, IEEE, PES, and IACS. The main title 'IEEE TENSYP 2024' is prominently displayed, along with 'Inauguration Ceremony'. A list of guests is presented in a vertical column, each with a circular portrait and their name and title in a white rounded rectangle. The number '15' is visible in a white circle on the right side of the poster. The IEEE logo is at the bottom right.

Name	Title
Dr. V Narayanan	Director, LPSC, ISRO
Er. R K Tyagi	CMO PWERGRID
Mr. S R Narasimhan	CMD, Grid-India
Mr. Deepak Mathur	IEEE Vice President Member of Geographic Activities
Prof. Lance Fung	IEEE R10 Director
Prof. Anand Srivastava	Vice Chancellor, NSUT
Dr. Madhu Chitkara	Pro-Chancellor, Chitkara University
Prof. Subrata Mukhopadhyay	General Co Chair
Prof. Prerna Gaur	Chair Elect-IEEE India Council

A panel discussion- Theme Power

▶ "Progressive Development in Power Sector Opportunities"

- ▶ Moderated by Prof. Subrata Mukhopadhyay and Prof. Prerna Gaur, featured experts from Industry,
- ▶ Dr Ashok Rajpoot from CEL,
- ▶ Dr S C Saxena from PowerGrid,
- ▶ Mr. Sanjay Sharma from SECI,
- ▶ and Prof Bhim Singh from IIT Delhi, who shared valuable insights into trends and future opportunities in the power sector.



The poster for the IEEE TENSYP 2024 Panel Discussion is set against a teal background. At the top, it features the IEEE logo, the event title 'IEEE TENSYP 2024' with a date of August 24, and the 'IEEE Region 10' and 'AIEEE South Section' logos. The main title 'IEEE TENSYP 2024' is in a white rounded rectangle, followed by 'Panel Discussion' in a smaller white rounded rectangle. Below this, the topic 'TOPIC: PROGRESSIVE DEVELOPMENT IN POWER SECTOR - OPPORTUNITIES AND CHALLENGES' is displayed in a white rounded rectangle. The panelists are presented in two rows of circular portraits. The first row includes Prof. Bhim Singh (IIT Delhi), Dr. Ashok K Rajpoot (CEL), and Dr. Sanjay C Saxena (PowerGrid). The second row includes Prof. Subrata Mukhopadhyay (IIT Delhi), Mr. Sanjay Sharma (SECI), and Prof. Prerna Gaur (IIT Delhi). A white box on the right side of the poster indicates the date '14'. At the bottom, a white rounded rectangle provides event details: 'Friday 27th Sept, 2024', 'Time 12:00 PM - 1:30 PM', and 'Location Virtual (Zoom Meeting, ID: 985 343 1234)'. Below this, logos for IEEE TENSYP 2024, IEEE Region 10, and AIEEE are shown, along with logos for IEEE TENSYP 2024, IEEE Region 10, and AIEEE. The IEEE logo is also present in the bottom right corner.

IEEE TENSYP 2024
Panel Discussion
TOPIC: PROGRESSIVE DEVELOPMENT IN POWER SECTOR - OPPORTUNITIES AND CHALLENGES

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Prof. Bhim Singh
IIS Fellow, IIT Delhi

Dr. Ashok K Rajpoot
Member (Power System),
CEA

Dr. Sanjay C Saxena
Director (Market Operations),
Grid-India

Prof. Subrata Mukhopadhyay
Moderator, IIS & EE Dept. of
IIT Delhi

Mr. Sanjay Sharma
Board of Directors,
SECI

Prof. Prerna Gaur
Moderator, Chair Elect, IEEE
India Council 2023-24

Friday
27th Sept, 2024

Time
12:00 PM - 1:30 PM

Location
Virtual (Zoom Meeting, ID: 985 343 1234)

IEEE TENSYP 2024
IEEE Region 10
AIEEE

IEEE TENSYP 2024
IEEE Region 10
AIEEE

IEEE

The Special WIE & Education Track -a Panel Discussion

- ▶ "Tech-Driven Solutions for a Better Future,".
- ▶ This session focused on the integration of technology into various fields and its potential to address the challenges we face today, with a special emphasis on the role of women and education in fostering innovation. Our esteemed panel included **Mr. Deepak Mathur, Prof. Preeti Bajaj, Prof. Mridula Gupta, and Prof. Prerna Gaur.**



The poster for the IEEE TENSYP 2024 Panel Discussion features a teal background with white and yellow text. At the top, it displays the IEEE logo, the event title 'IEEE TENSYP 2024', the location 'Region 10', and the 'IEEE Delhi Section' logo. Below this, the event title and 'Panel Discussion' are highlighted in white rounded rectangles. The topic 'TOPIC: TECH-DRIVEN SOLUTIONS FOR A BETTER FUTURE' is also in a white rounded rectangle. The panelists are arranged in two rows of three circular portraits each. Each portrait is accompanied by the name and title of the panelist. At the bottom, the date 'Saturday 28th Sept, 2024', time '12:00 PM - 1:30 PM', and location 'NSUT, New Delhi' are provided. The footer contains logos for ITSS, IETRS, IES, ICS, IES, and IEEE.

IEEE TENSYP 2024
Panel Discussion

TOPIC: TECH-DRIVEN SOLUTIONS FOR A BETTER FUTURE

Mr. Deepak Mathur
2024 IEEE Vice President
Member of Geographic Activities, IITD

Prof. Preeti Bajaj
BOG of Education Society Chair
IEEE MGA Awards Director
General, KITES Op of Institution

Prof. Mridula Gupta
University of Delhi,
South Campus

Prof. Prerna Gaur
Director - NSUT West Campus
Chair Elect, IEEE India Council
2023-24

Prof. Rashmi Agarwal
Moderator, IEEE WIE
Delhi Section Chair

Prof. Forum Chandarana
Moderator, WIE IITD
Committee Member

Saturday
28th Sept, 2024

Time
12:00 PM - 1:30 PM

Location
NSUT, New Delhi

ITSS IETRS IES ICS IES IEEE

A panel discussion- Theme Electronics

- ▶ on "Way Ahead – India to be an Electronic Manufacturing Hub"

Esteemed experts in the field

- ▶ **Prof. Ranjan K Malik, IIT Delhi**
- ▶ **Prof. Sujay Deb IIT Delhi**
- ▶ **Dr. Rakesh Malik, ST Microelectronics**
- ▶ **Mr. Preet Yadav. NXP India**
- ▶ These industry-academia leaders shared their perspectives on the challenges and future possibilities for India's growth as an electronic manufacturing powerhouse. **Prof. Jasdeep Kaur Dhanoo** and **Prof Rajnish Sharma** moderated an engaging and forward-looking conversation.

The poster is for the IEEE TENSYP 2024 Panel Discussion. At the top, it features the IEEE logo, the event name 'IEEE TENSYP 2024' with dates '20-24 September', 'IEEE Region 10', and the 'IEEE Delhi Section' logo. The main title is 'IEEE TENSYP 2024 Panel Discussion'. Below this, the topic is 'TOPIC: WAY AHEAD INDIA TO BE ELECTRONIC MANUFACTURING HUB'. The panel consists of six members, each with a circular portrait and a caption: Prof. Ranjan K Malik (IIT Delhi), Prof. Sujay Deb (IIT Delhi), Dr. Rakesh Malik (Founder Director, Varvys Microelectronics Pvt. Ltd.), Mr. Preet Yadav (Head of India Innovation Ecosystem at NXP Semiconductors), Prof. Rajnish Sharma (Moderator, Vice Chancellor, Chitkara University), and Prof. Jasdeep Kaur Dhanoo (Moderator, Vice Chair - IEEE Delhi Section, HOD - ECE, IODTUW). A small '17' is visible in the bottom right corner of the panel area. At the bottom of the poster, it specifies the date 'Saturday 28th Sept, 2024', time '10:00 AM - 12:30 PM', and location 'NSUT, New Delhi'. The footer contains logos for ITSD, ELECTRON ENGINEERING SOCIETY, IIS Control Systems Society, PES, and IIS COMPUTER SOCIETY, along with the IEEE logo on the right.

A Panel Discussion Track Computers/ AI-ML

- ▶ a highly anticipated panel discussion on “Artificial Intelligence (AI) and its future impact”.
- ▶ Esteemed panelists from industry and academia explored the transformative role AI is playing across sectors, including healthcare, manufacturing, and finance, while also discussing the ethical considerations of AI adoption.
- ▶ **Prof Mukesh Mohania-IIIT Delhi**
- ▶ **Prof Lance Fung- R 10 Director**
- ▶ **Mr Kapi Ahuja Nagaro**
- ▶ **Dr John Jose- IIT Gauwahati**
- ▶ **Mr Ajay Goel- VP Nagaro**

The poster is for the IEEE TENSYP 2024 Panel Discussion. At the top, it features the IEEE logo and the event details: IEEE TENSYP 2024, 12-14 Sept 2024, Region 10, and AIEEE Delhi Section. The main title is "IEEE TENSYP 2024" and the sub-title is "Panel Discussion". The topic is "TOPIC: IMPACT OF ARTIFICIAL INTELLIGENCE ON THE DIGITAL WORLD". There are six panelists listed in two rows of three. Each panelist has a circular portrait and their name and title. The first row includes Prof. Mukesh Mohania (IIIT Delhi), Prof. Lance Fung (IEEE R10 Director), and Mr. Kapi Ahuja (CTO-Digital, Nagaro). The second row includes Dr. John Jose (Moderator, IIT Gauwahati), Ms. Debanjana Dasgupta (Executive Architect, IIM Automation), and Mr. Ajay Goel (Moderator, Managing Director, Nagaro). At the bottom, it specifies the date as Sunday, 25th Sept, 2024, the time as 10:00 AM - 12:30 PM, and the location as NSUT, New Delhi. Logos for IEEE, IET, IETECH, IETECH SOCIETY, IETECH SOCIETY, IETECH SOCIETY, IETECH SOCIETY, IETECH SOCIETY, and IETECH SOCIETY are at the bottom.

IEEE TENSYP 2024
12-14 Sept 2024 | Region 10 | AIEEE Delhi Section

IEEE TENSYP 2024
Panel Discussion

TOPIC: IMPACT OF ARTIFICIAL INTELLIGENCE ON THE DIGITAL WORLD

Prof. Mukesh Mohania
IIIT Delhi

Prof. Lance Fung
IEEE R10 Director

Mr. Kapi Ahuja
CTO-Digital, Nagaro

Dr. John Jose
Moderator, IIT Gauwahati
Chief Industry- Academia
Collaboration
Dept. of CSE, IIT Guwahati of Delhi

Ms. Debanjana Dasgupta
Executive Architect, IIM
Automation

Mr. Ajay Goel
Moderator
Managing Director,
Nagaro

Sunday
25th Sept, 2024

Time
10:00 AM - 12:30 PM

Location
NSUT, New Delhi

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The Plenary Talk



A digital poster for the IEEE TENSYP 2024 Plenary Talk. The poster has a teal background with white and yellow text. At the top, it displays the IEEE logo and event details: 'IEEE TENSYP 2024 | September 18-19, 2024 | Region 10 | IEEE Delhi Section'. The main title is 'IEEE TENSYP 2024' in a white rounded rectangle, followed by 'Plenary Talk' in a smaller white rounded rectangle. The topic is 'TOPIC: BLUEPRINTS FOR SUCCESS: ENGINEERING YOUR PROFESSIONAL PATH' in a white rounded rectangle. A circular portrait of the speaker, Er. Sangeeta Kaushik, is shown. Below her name and title, 'Managing Director of Bangladesh-India Friendship Power Company (Pvt.) Limited (BIFPCL)', is a white rounded rectangle containing the date 'Friday 17th Sept, 2024', time '3:30 PM onwards', and location 'WelcomHotel, Durgam, New Delhi'. A large white rounded rectangle on the right side contains the number '18'. The bottom section of the poster is divided into two columns. The left column is titled 'SPECIAL WE AND EDUCATION TRACK, TENSYP 2024 PRESENTS' and features a 'LIVE & CREATIVE POSTER DESIGNING COMPETITION' on 'SEPTEMBER 23, 2024, 9:30AM - 10AM'. It lists the theme 'THEME FOR THE POSTERS: • Bridging the barriers of gender equality through technology, • Role of technology for sustainable nation building, • Empowering futures through education.' and includes a QR code and a note that 'TOP 100 winners will be awarded trophies and certificates for all participants'. The right column lists three speakers with their names and titles: Dr. Anshu Singh, Dr. Manoj Kumar Singh, and Dr. Anuradha Varshney. The bottom of the poster features logos for various IEEE societies: IPSS, Electron Society, Control Systems Society, PES, and Computer Society.

EPICS WORKSHOP

- ▶ The day also featured a hands-on EPICS workshop, providing participants practical experience in developing innovative solutions to real-world challenges.
- ▶ This workshop encouraged teamwork and creative problem-solving, reflecting TENSYP's commitment to practical learning and community engagement.



The poster for the IEEE TENSYP 2024 Panel Discussion features the IEEE logo, IEEE TENSYP 2024 logo, IEEE Region 10 logo, and IEEE Delhi Section logo. The main title is "IEEE TENSYP 2024" and the subtitle is "Panel Discussion". The topic is "TOPIC: SOCIAL INNOVATION THROUGH ENGINEERING A HANDS-ON EPICS WORKSHOP". Three panelists are listed: Prof. Amit Ved (RIO MD Committee Member), Prof. Farah Chandarana (RIO HTA Committee Member), and Prof. Sneha Kabra (Joint Secretary IEEE Delhi Section). The event is on Saturday, 28th Sept, 2024, at 2:30 PM onwards, at NSUT, New Delhi. Below the panelists is a table for the Membership development committee, IEEE Delhi Section, with columns for Time/Date and three dates: 27th Sep, 2024 (Muzakherat, New Delhi, India), 28th Sep, 2024 (NSUT, New Delhi), and 29th Sep, 2024 (NSUT, New Delhi). The table lists activities such as Membership Drill, IEEE as a Professional & Career Name, Best Practices for SE Planning & Operations, and Talks Demonstration & Hands-on.

IEEE TENSYP 2024
Panel Discussion
**TOPIC: SOCIAL INNOVATION THROUGH ENGINEERING
A HANDS-ON EPICS WORKSHOP**

Prof. Amit Ved
RIO MD Committee Member

Prof. Farah Chandarana
RIO HTA Committee Member

Prof. Sneha Kabra
Joint Secretary IEEE Delhi Section

Saturday
28th Sept, 2024

Time
2:30 PM onwards

Location
NSUT, New Delhi

Membership development committee, IEEE Delhi Section

Time/Date	27th Sep, 2024 (Muzakherat, New Delhi, India)	28th Sep, 2024 (NSUT, New Delhi)	29th Sep, 2024 (NSUT, New Delhi)
10:00 AM - 10:45 AM	Membership Drill (Join & Renew IEEE, Free Dueses and much more)	IEEE as a Professional & Career Name	IEEE as a Professional & Career Name
10:45 AM - 11:30 AM	*Only for TENSYP 2024 Attendees/Delegates	Best Practices for SE Planning & Operations	Best Practices for SE Planning & Operations
11:30 AM - 12:15 PM		+Talks Demonstration & Hands-on	+Talks Demonstration & Hands-on

ITSS **ELECTRON ENCES** **OCREV** **IEEE** **Control Systems Society** **IEEE** **AN INNOVATION IN ENERGY** **IEEE PES** **IEEE** **COMPUTER SOCIETY**

The MOVE disaster management workshop

- ▶ The MOVE disaster workshop made a tangible impact by educating forty school students on emergency preparedness and response strategies.



OUR SPONSORS

TENSYP, being a prominent conference, attracts the attention of various individuals and organisations, including both government and corporate sectors. The event fosters collaboration and partnerships among professionals from diverse industries, each contributing to its success.

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Chairperson: Devesh Wadhwa
Vice Chairperson: Yash Kanojia

Computer Society
Chairperson: Garima Singh
Vice Chairperson: Pranav Varshney

Circuit and System Society
Chairperson: Riddhima Arora
Vice Chairperson: Mahima Baxla

IEEE MANAV RACHNA SB
Harsh Bharadwaj, Mallika,
Suhani Goyal

Robotics and Automation Society
Chairperson: Hemant Singh
Vice Chairperson: Aditya Singh

IEEE Delhi SSN
Anamika, Daniyal
Aparna

Senior Execomm
Harshita Tiwari
Vidhi Jain

Industrial Applications Society
Chairperson: Divyesh Kumar

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Thank You!