

Welcome Message Chair

With the efforts of very diligent team, we are happy that IEEE Signal Processing Society, Gujarat Section is continuously coming up with value added programs and events. All the committee members and volunteers relentlessly are working to serve the community at large. Special emphasis is given to students' welfare and with that motto, the Chapter strives in organizing programs to benefit them. I firmly believe that this strong combination of zealous team members and enthusiastic student community shall embark a silver lining for serving the society and community.

Best Wishes,

Dr Chirag Paunwala,

(Chair IEEE Signal Processing Society Gujarat Chapter)



Distinguished Lecture Series: *Wearable Sensor Signal Processing and Data Analytics for Health Applications*

Date: **10th March 2023**

Speaker: **Dr Gaurav Sharma**

Designation: Professor of Electrical and Computer Engineer, Computer Science, Biostatistics and Computational Biology, Georgene Institute for Data Science, University of Rechester

Organized by: IEEE CKPCET SB and IEEE SPS CKPCET SB Chapter

Advances in nano-fabrication and MEMS devices have led to radical improvements in sensing technologies in recent years. These improvements are most visible to all of us in our smartphones that already have a feature panoply of miniaturized sensors. Many of the same sensors are also positively impacting several other application domains. The highlight of this talk was on how smart light-weight body worn sensors are set to revolutionize health care and the practice of medicine by providing technologies for assessing biomarkers for physiological and physical attributes related to disease condition, treatment effectiveness, and longitudinal progression

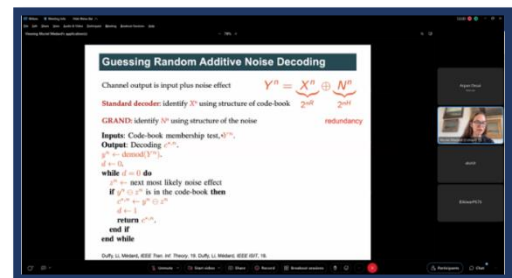
Technical Talk on "*Guessing Random Additive Noise Decoding (GRAND)- Universal Decoding Algorithm, & Relations to Signal Processing*"

Date: **25th March 2023**

Speaker: **Dr Muriel Medard**

Designation: NEC Professor of Software Science & Engineering in the School of Engineering at MIT and a Professor in the Electrical Engg. And Computer Science Department in MIT

Organized by WiSP in association with IEEE Silver Oak University SPS SBC and IEEE CKPCET SPS SBC



Expert Talk on *“Publication Etiquette and Research Ethics”*

Date: **10th March 2023**

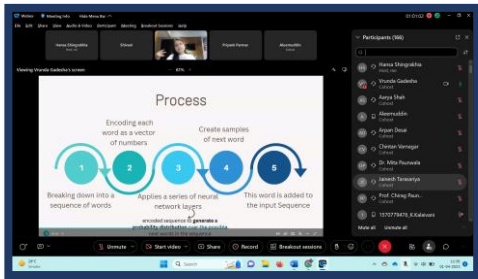
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The talk emphasized the importance of research ethics and publication etiquette in the academic community. Stress on adhering to ethical principles and publishing guidelines is not only a moral obligation but also a professional responsibility of every researcher. Several key issues related to publication ethics, such as authorship, plagiarism, data fabrication, and conflict of interest were also discussed.



Technical Talk on *“ChatGPT: The current Talk of the town”*

Date: **1st April 2023**

Speaker: **Ms. Vrunda Gadesha**

Designation: PhD Scholar Ahemdabad University
Organized by IEEE SPS GS WiSP in association with IEEE CKPCET SB, IEEE SPS CKPCET SBC, IEEE Silver Oak, IEEE SPS SCET SB

ChatGPT is the latest buzzword that has surrounded the current technological ear. To create awareness about the latest developments and advancements in the field of ChatGPT, along with its practical applications and real-world implications, this talk was obviously the need of the hour.

One Week Workshop on *“Demystify Women Empowerment: Societal Practices”*

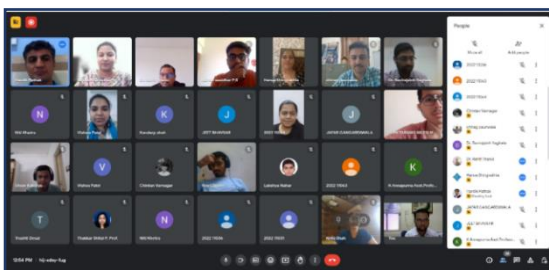
(As a part of IEEE Education Week Celebration)

Date: **3rd to 7th April 2023**

Organized by: Women Development Cell and Gender Cell of CKPCET, IEEE Gujarat Section, IEEE SPS Gujarat Chapter, IEEE CKPCET SB and IEEE SPS CKPCET SBC



Expert Talks on “Say Hello! To Happy Menses”, “Women Internet Safety Education”, “Case Study of Women Internet Safety”, “Women against Rape and Domestic Violence”, “Diversity and Inclusion at Workplace and Stress Management” and Hands-on Training on “Basic Life Support”, “Self Defense”, “goal seeking, risk and rewards, roll clarity and managerial skill through Management games” and “Skill Development” were organized in the workshop. The motto of the workshop was **“Transform (Revolutionize) Self to Transform (Revolutionize) Society”**.



Game based Learning for Engineering Education

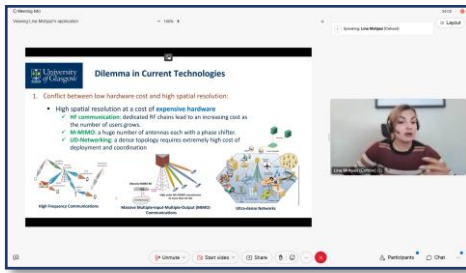
(As a part of IEEE Education Week Celebrations)

Date: **15th April 2023**

Speaker: **Prof. Rajlaxmi Chauhan**

Designation: Assistant Professor, IIT Jodhpur
Organized by: IEEE GS in association with IEEE SPS GS

The expert shared her insights on how gamification can revolutionize the way engineering students learn. The attendees gained knowledge about game development by having a look at the interactive and learning-based games demonstrated during the session. She emphasized that game-based learning can enhance student engagement, knowledge retention, and problem-solving skills.



Technical Talk Series: *Reconfigurable Intelligent Surfaces: From Dump to Smart Radio Environments*

Date: **16th June 2023**

Speaker: **Dr Lina Mohjazi**

Designation: Lecturer, University of Glasgow

Organized by: WiSP in association with IEEE SCET SPS SB

Dr Lina discussed vision of 6G wireless systems by 2030 and the ways it will enable ubiquitous intelligent information network. She also discussed about the hardware cost and high spatial resolutions, and current status of conventional wireless network. Her talks on fundamentals of reconfigurable intelligent surfaces for Smart Radio environments was very informative and intriguing. Challenges of deploying RSI-enabled Smart Radio Environments (SRE) were also presented.

Upcoming Events:

- Expert Talk on “Functional safety standardization”
- National Seminar on “New Trends in Signal Processing (NeTSiP)” with theme on Signal Processing in Robotics and Autonomous Systems using Artificial Intelligence/Machine Learning.
- Seasonal School – Seminar consisting of Expert Lectures in the domain of Revolutionary Solutions for Biomedical Signal and Image Analysis using Artificial Intelligence.
- Conclave on Women in Leading Technology (WoLT) – a UNIQUE CONCLAVE of Technological advancements through Leadership with respect to digital signal processing consisting of lectures, panel discussions, small learning teams with peer and facilitated resource persons.

Executive Committee 2023:

- **Prof. Chirag Paunwala** - Chair
- **Prof. Mita Paunwala** – Vice-Chair
- **Prof. Arpan Desai** - Secretary
- **Prof. Neeta Chapatwala** - Treasurer
- **Dr. Hansa Shingrakhia** - WiSP Chair
- **Prof. Manish Khare** – Education Activity Chair
- **Prof. Dinesh Kumar** - Student and YP Chair
- **Dr. Alpa Shah** - Editor SPS GS Newsletter
- **Prof. Sarosh Dastoor** - Membership Development Chair
- **Prof. Chintan Varnagar** - Technical Activity Chair
- **Prof. Shankar Parmar** - Technical Talk Series Coordinator
- **Ms. Tejal Surati** - Digital Content Chair

Good News

- IEEE SPS Student Branch Approved for C. K. Pithawala College of Engineering and Technology
- IEEE SPS Student Branch Chapter Approved for Marwadi University

For your feedback, please write to us on ieeespsgs@gmail.com / cpaunwala@gmail.com.

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