



# IEEE Rochester Section

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October 2024 Newsletter

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## Message from the Chair

Dear Colleagues,

The Institute of Electrical and Electronics Engineers (IEEE), whose roots go back to 1884 when electricity began to become a major influence in society, is the world's largest technical professional organization dedicated to advancing technology for the benefit of humanity. The IEEE is for everyone who uses electricity and technology to get things done ... not just for electrical engineers.

Attending an IEEE event, including many in Rochester, allows you to learn new, interesting things, support our vibrant Rochester technical community, elevate the practice of engineering, and enrich your colleagues' experiences.

We welcome you to help us plan an exciting event. Our IEEE Rochester Section Executive Committee meets monthly to discuss and organize events. Our next meeting will be over lunch on Tuesday, November 5<sup>th</sup>, from 12:00 PM to 1:30 pm. Please feel free to register for in-person or virtual (Zoom) attendance using this link: <https://events.vtools.ieee.org/m/433827>.

I look forward to working with you!

Regards,

Kelly Robinson, PE, PhD  
Chair, IEEE Rochester Section



## IEEE Eta Kappa Nu Honor Society News



Emmett Ientilucci, the Gerald W. Harris Endowed Chair in the Chester F. Carlson Center for Imaging Science, was inducted into the IEEE Eta Kappa Nu International Honor Society on Aug. 20, 2024.

## 2024 Western New York Image and Signal Processing Workshop (WNYISPW) Friday, November 8 at RIT

WNYISPW is a premiere venue for promoting research involving AI, image, and signal processing applications in the Western New York region and facilitating interaction between academic researchers, industry professionals, and students.

Registration information: <https://events.vtools.ieee.org/m/426283>  
Further information at the 2024 IEEE WNYISPW  
website: <https://ewh.ieee.org/r1/rochester/sp/WNYISPW2024.html>

#### WNYISPW Agenda:

8:00 - 8:20 *Registration*  
8:20 - 8:30 *Welcome and Sponsors*  
8:30 - 9:00 AI, ML & Edge Processing in Remote Sensing  
9:00 - 9:30 Dr. Matthew Wright - Generative Traffic Analysis Café: Tracking Hackers Through The Network with Deep CoFFEA, EXPRESSO, and More  
9:30 - 9:45 Dr. Bartosz Krawczyk - Learning with imbalanced data  
9:45 - 10:00 Dr. Yongsheng Yu - Ting Diffusion Models for Image Processing with Human Instructions  
**10:00-10:15 *Coffee Break***  
10:15 - 11:30 Five Submitted Papers  
11:30 - 12:00 Dr. Chris Kanan - Foundation Models and Generative AI: Frontiers, Trends & Next Steps  
1:30 - 2:00 Dr. Ashique KhudaBukhsh - Quantifying Political Polarization through the Lens of Machine Translation and Vicarious Offense  
2:00 - 3:00 Four Submitted Papers  
**3:00 - 3:15 *Coffee Break***  
3:15 - 4:15 Four Submitted Papers  
4:15 - 4:45 Dr. Zhen Bai - Embodied Learning for K-12 AI Literacy  
4:45 - 5:15 Dr. Raffaella Borasi - Implications of AI for Education and Educators  
5:15 - 5:30 *Awards and Wrap-up*

#### **Second IEEE Upstate NY Workshop on Secure and Sustainable Communications Networks (SSCN)**

Hosted by the Rochester IEEE Joint Chapters on Communications and Aerospace, the Second IEEE Upstate NY Workshop on Secure and Sustainable Communications Networks (SSCN) will be held on **October 15th**, 2024, from 9:00 AM to 5:00 PM in the B. Thomas Golisano Auditorium at the Rochester Institute of Technology.

#### **Agenda - Oral Presentations and Posters:**

**Exhibitions:** Companies are encouraged to exhibit their products or services at the workshop. Contact Dr. Nirmla Shenoy ([nxsvks@rit.edu](mailto:nxsvks@rit.edu)) or Garret Arcoraci ([garret.arcoraci@rit.edu](mailto:garret.arcoraci@rit.edu)) as soon as possible.

#### **WIE - Women In Engineering Upcoming Events October 1 and October 8**

Please join IEEE WIE Rochester for the upcoming " Industry-Academia Interfaces: A Next-Gen View" events focused on creating awareness, addressing challenges, and promoting talent retention within the local tech ecosystem. More info @ <https://r1.ieee.org/rochester-wie/>

**October 1: 11:00 am - 1:30 pm Room 2240/2230 Slaughter Hall (Building 78), RIT**

**October 8: 11:00 am - 2:00 pm Feldman Ballroom, Douglass Commons, U of R**

#### **University of Rochester, IEEE Student Branch Report**



students to IEEE and the Student Branch's planned activities.

The IEEE U of R Student Branch hosted a booth at the annual Activities Fair, featuring all recognized on-campus student organizations. The branch also held a General Interest Meeting to introduce

