

IEEE North Jersey Section

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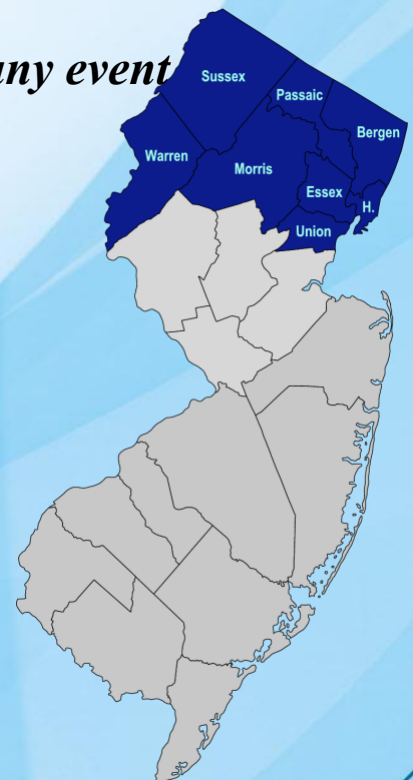
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Prior registration is highly encouraged to attend any event

IEEE North Jersey Section Website

IEEE North Jersey Section - Roster





Chair's Note - A Message from the IEEE North Jersey Section Chair, Dr. Emad Farag

As we navigate the recent cold weather and blizzard conditions across the area, I hope that you and your families are staying safe, warm, and well. Please take care during these challenging winter days.

Despite the winter weather, our Section is actively planning a wide range of exciting activities and events over the next several months. Our schedule includes engaging technical talks, student-focused events at universities throughout the Section, and STEM outreach initiatives designed to inspire and connect with high school students across our Section. We are committed to fostering professional growth, technical excellence, and community engagement at every level.

Looking ahead to the fall, we are also planning a technical conference that will bring together professionals, researchers, and students from across the region. Stay tuned for more details in the coming months—we are excited about what's ahead.

I am also pleased to share that this year's Awards Banquet will be held on **Sunday, May 3rd, at the Birchwood Manor in Whippany, NJ**. We are especially proud to announce that three members of our Section have been elevated to **IEEE Fellows**, one of the highest honors bestowed by IEEE. They will be formally recognized at the banquet for their outstanding accomplishments and contributions to the profession.

In addition to celebrating our newly elevated Fellows, we will recognize recipients of the IEEE Region 1 awards and other distinguished accolades. The event promises to be a wonderful opportunity to honor excellence within our community and to reconnect with colleagues and friends.

I encourage you to join us in celebrating our award recipients and to participate in the many upcoming Section events. Your engagement and involvement are what make our Section vibrant and impactful.

We look forward to seeing you soon.

Emad Farag
IEEE North Jersey Section Chair

Schedule for the 2026 ExCom Meetings:

Month	Meeting Date	Venue
January	Wed: 14-Jan-26	Zoom Meeting
February	Wed: 04-Feb-26	NJIT, Newark + Zoom
March	Wed: 04-Mar-26	Montclair State University, Montclair + Zoom
April	Wed: 01-Apr-26	Fairleigh Dickinson University, Teaneck + Zoom
May	Sun: 03-May-26	Awards Banquet: Hanover Manor (no Zoom)
June	Wed: 03-Jun-26	Zoom Meeting
July	Wed: 01-July-26	No Meeting
August	Sat: ??-Aug-26	Picnic: To be decided (no Zoom)
September	Wed: 02-Sep-26	Fairleigh Dickinson University, Teaneck + Zoom
October	Wed: 07-Oct-26	NJIT, Newark + Zoom
November	Wed: 04-Nov-26	Nokia Bell Labs, New Providence + Zoom
December	Tue: ??-Dec-26	End of the year: Hanover Manor, East Hanover (no Zoom)

IEEE North Jersey Section's Education Committee Technology Review Series:

- [Article for February 2026](#)

Introduction to Machine Learning - Unsupervised Learning: Clustering

The theme of this article is to introduce unsupervised learning and a category of clustering algorithms to address analyzing a dataset. Unsupervised learning is used when there is no apriori label or target variable value associated with examples and their provided feature set. Without labelled data, traditional supervised machine learning models cannot be used to predict new data examples and the class they might belong to.

A few clustering algorithms: k-means, meanshift, and DBSCAN are introduced. How they operate and parameters for initializing and tuning them are covered. Two metrics to score the performance of the clustering algorithms are discussed. The operation of models built using these algorithms are demonstrated on a canonical customer purchasing behavior dataset. The overall results, as scored by the metrics, are compared to draw conclusions about relative performance.

[Full Article](#)

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IEEE AP-S CSC (Chapter-SIGHT-COPE) - Recent Activities

The IEEE AP-S CSC (Chapters/SIGHT/COPE) Spring 2026 meeting held in Natal, Brazil, witnessed active participation from distinguished members including IEEE Antennas and Propagation Society President C.J. Reddy, Prof. Yahia Antar, Branislav Notaros, Francesco P. Andriulli, Christophe Fumeaux, Dr. Ing Habil Ajay Kumar Poddar, George Shaker, Satish Sharma, Charlotte Blair, PhD, Rachel Moore, Jessica Fromm, Vikass Monebhurrn, Jawad Y. Siddiqui, Debatosh Guha, Pooja Sharma, Danilo Erricolo, Guido Lombardi, Buon Kiong (Vincent) Lau, Mauro Ettore, Buon Kiong (Vincent) Lau, Camila Albuquerque, Gustavo A. Siles Soria, Nacer Chahat, Dr. Issac B T Silva, and many others.

IEEE AP-S SIGHT Poster Competition on Sustainable Development Goals held at IEEE Latin American Conference on Antennas and Propagation (**LACAP 2026**), **NATAL, Brazil**, on 23rd **February** 2026 was successfully conducted. Organized under IEEE AP-S CSC (Chapters/SIGHT/COPE), IEEE AP-S SIGHT led by Dr. Jawad Siddiqui, in collaboration with AP-S COPE, led by Prof. Yahia Antar, and Dr. Anisha Apte, and the Chapter Activity Committee led by Dr. Ajay Poddar, and the **AP-S Brazil Northeast Section Chapter**, the competition emphasized the transformative role of antennas and wireless technologies in addressing real-world humanitarian challenges.



IEEE AP-S CSC (Chapters/SIGHT/COPE) activities, showcased ongoing efforts and future directions to enhance collaboration and member involvement.

The initiative invited participants to identify critical community needs and develop innovative, measurable, and sustainable engineering solutions aligned with the United Nations Sustainable Development Goals (SDGs). Projects were evaluated based on technical excellence, societal relevance, feasibility, scalability, and measurable impact.

IEEE AP-S CSC (Chapters/SIGHT/COPE) congratulates all awardees and participants for their dedication to advancing engineering solutions that create tangible societal impact.

Together, we reaffirm our commitment to leveraging technology for the benefit of humanity.

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Calendar of Events

Title	Date	Location
IEEE North Jersey Section February ExCom Meeting: North Jersey Section	04 Feb 2026 06:30 PM EST	Newark, New Jersey Hybrid
On the way to AI-native Networks: Networks that Self-Operate: Philadelphia Section	05 Feb 2026 06:00 PM EST	Virtual
Mammography using Low Frequency Electromagnetic Energy: North Jersey Section Jt Chapter, AP03/MTT17	10 Feb 2026 12:00 PM EST	Virtual
Welcome Back and Celebrate Awardees: Lunar New Year & New Student Branch Chapters: New Jersey Coast Section Jt. Chapter, IM09/C16	13 Feb 2026 07:00 PM EST	Piscataway, New Jersey
Workshop Proposal Discussion at upcoming IEEE ISAIA 2026 Conference: North Jersey Section Jt Chapter, AP03/MTT17	16 Feb 2026 06:00 PM EST	Paterson, New Jersey

IEEE Webinar - AI-Enabled 5G Private Networks: Accelerating Industrial Automation and Intelligence: IEEE Future Networks Community	18 Feb 2026 11:00 AM EST	Virtual
SAFE-AGENT-L Framework: Engineering Legal-Safe, Explainable GenAI for Large-Scale Autonomous Systems: Philadelphia Section	19 Feb 2026 07:00 AM EST	Virtual
150 Years Telephone Patent Bell & Latimer: Careers in Technology an 80th Anniversary Computer Society Event: New Jersey Coast Section Jt. Chapter, IM09/C16	19 Feb 2026 08:30 AM EST	Middletown, New Jersey
Power Under Siege: Cybersecurity Strategies for Critical Infrastructure: North Jersey Section Chapter, PE31	19 Feb 2026 09:00 AM EST	South Plainfield, New Jersey
Invited Lecture Series (Spring 2026): North Jersey Section Chapter, NANO42	23 Feb 2026 07:58 AM EST	Virtual
AI in Medical Computing: Cancer Treatment and Remote Simultaneous Medical Interpretations: North Jersey Section Chapter, C16	25 Feb 2026 12:30 PM EST	Teaneck, New Jersey
Agentic AI in Pharma & Life Sciences: Designing Trustworthy Generative AI Systems for High-Stakes Decisions: North Jersey Section Chapter, SIT30	27 Feb 2026 01:00 PM EST	Virtual
IEEE North Jersey Section March ExCom Meeting: North Jersey Section	04 Mar 2026 06:30 PM EST	Montclair, New Jersey
Infrastructure as an Emergent Behavior-Shaping System in Networked Physical AI: Philadelphia Section	05 Mar 2026 06:00 PM EST	Virtual
IEEE Webinar - Humanity in the AI Era: IEEE Future Networks Community	18 Mar 2026 11:00 AM EDT	Virtual
Underground Asset Strategies: North Jersey Section Chapter, PE31	19 Mar 2026 09:00 AM EDT	South Plainfield, New Jersey

Lore Tokens: Cognition, not just Compression: Philadelphia Section	02 Apr 2026 06:00 PM EDT	Virtual
Low-Level Hardware Information Assisted Approach Towards System Security: North Jersey Section Chapter, C16	08 Apr 2026 01:30 PM EDT	Teaneck, New Jersey
Optimal Directed Graphs for Network Synchronization: North Jersey Section Chapter, C16	20 Apr 2026 12:00 PM EDT	Teaneck, New Jersey
Power Quality & Testing: North Jersey Section Chapter, PE31	23 Apr 2026 09:00 AM EDT	South Plainfield, New Jersey
2026 IEEE North Jersey Section Awards Reception: North Jersey Section	03 May 2026 03:00 PM EDT	Whippany, New Jersey
Robotics and AI Open House for Pre-U students and High School Counselors: Montclair State Univ	07 May 2026 01:40 PM EDT	Montclair, New Jersey
2026 IEEE International Conference on Intelligent Systems and Interdisciplinary Applications (IEEE ISAIA 2026): North Jersey Section	09 Oct 2026 08:00 AM EDT	Montclair, New Jersey

Upcoming Events: [MARCH 2026 Onwards](#)

[For Past Month's Events – JANUARY 2025 - Click Here](#)

[Click Here: For a List of the current IEEE North Jersey Section Volunteers](#)