IEEE North Jersey Section
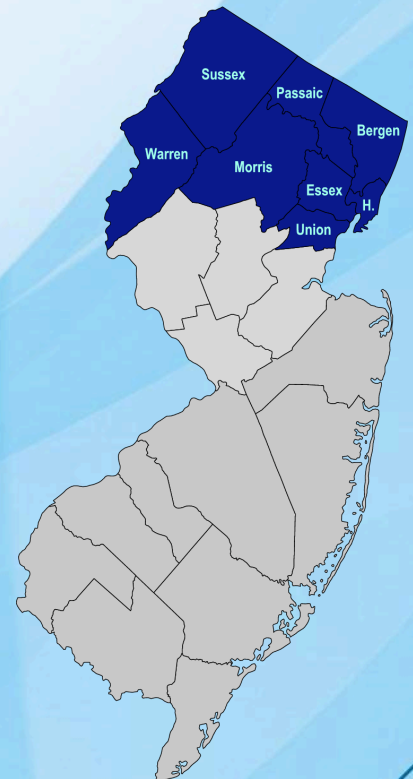
IEEE North Jersey Section Newsletter
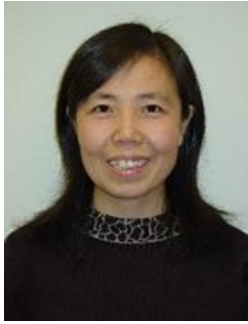
VOL. 70, NO. 03   Issue: March 2024

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, Prof. Hong Zhao

As we move further into the year, I am pleased to share with you some exciting updates and events happening within our community.

We are excited to announce several upcoming events focused on artificial intelligence (AI). These include discussions on AI-powered math information retrieval, AI Native wireless systems, generative AI in education and a special talk by the IEEE President on societal and ethical concerns with responsible AI. These events promise to be informative and thought-provoking, and I encourage all members to participate.

We are proud to co-sponsor some of the events within our region and across regions. These partnerships allow us to broaden our impact and reach a wider audience, furthering our mission of advancing technology for the benefit of society.

Best wishes,

Hong Zhao, IEEE North Jersey Section Chair

IEEE – IMPORTANT EVENTS, ARTICLES, ANNOUNCEMENTS, AND REMINDERS:

- This Month's Communications Society News from Around the World
- **The Edison-Montessori Connection -** An article by Harry Roman
- ED/CAS Distinguished Lecture to be held on April 3, 2024

The Edison-Montessori Connection

The Montessori method of education stressed the development of a child's own initiative and natural abilities–especially through practical play and a hands-on, self-paced approach to learning aimed at inspiring creativity and imagination, along with independent thinking, which sounds a great deal like today's STEM educational paradigm.

In 1912, Maria visited the United States to great acclaim and stayed at the lovely Glenmont West Orange home of Thomas Edison—who was quoted as saying … "I like the Montessori method.

It teaches through play. It makes learning a pleasure. It follows the natural instincts of the human being … The present [education] system casts the brain into a mold. It does not encourage original thought or reasoning." This meshes well with Edison's many career pronouncements about changing the current form of American education to make it more practical. It is worthwhile to note that early markets that Edison envisioned for his phonograph and motion pictures were to be school classrooms.

Other Montessori admirers included Alexander Graham Bell, Helen Keller, Henry Ford, Woodrow Wilson, and Mahatma Gandhi. and include modern entrepreneurs/innovators and former Montessori method students Larry Page, Sergey Brin, and Jeff Bezos. Today, there may be as many as 8,000 Montessori schools flourishing in the United States.

Maria Montessori, born in 1870, was the first woman in Italy to receive a medical degree. She initially worked in the fields of psychiatry, education, and anthropology, eventually concentrating on education in 1907. She was truly a liberated woman who entertained the thought of becoming an engineer.

Talk to you again soon...
Harry (Harry T. Roman, Life Senior Member, Author & Advisor, Edison Innovation Foundation (Retired-PSE&G Co.), htroman49@aol.com)

- **ED/CAS Distinguished Lecture to be held on April 3, 2024**

Electron Devices and Circuit & Systems Distinguished Lecture

Co-sponsored by AP/MTT Chapter & North Jersey Section

Tsu-Jae King Liu

Dean and Roy W. Carlson Professor of Engineering
University of California, Berkeley

Title: *Semiconductor Innovation for Transformative Impact*

Date: April 3, 2024, at 2:30pm

Lecture Followed by a Reception

Location: **Campus Center Ballroom B**

Abstract, Biography & Registration
https://events.vtools.ieee.org/m/376864

FDU
Gildart Haase School
of Computer Sciences
& Engineering

GRADUATE SCHOOL VIRTUAL OPEN HOUSE!

Tuesday, March 19, 2024, 5 p.m.

Fairleigh Dickinson University

Gildart Haase School of Computer Sciences & Engineering (GHSCSE)

Cybersecurity Leadership: "National Center of Academic Excellence for Cyber Defense Education (CAE-CDE)" by NSA

18 cutting-edge labs, among the best in the North and Mid-Atlantic Regions

Offers 6 Masters of Science (MS) Programs

*Cybersecurity & Information Assurance   *Management Information Systems

*Electrical Engineering   *Computer Engineering

*E-Commerce   *Computer Science (Data Science, Cloud Computing and more)

Scan Zoom Registration

Scan Grad Program Info

FDU
Gildart Haase School
of Computer Sciences
& Engineering

GRADUATE SCHOOL VIRTUAL OPEN HOUSE!

Tuesday, April 16, 2024, 5 p.m.

Fairleigh Dickinson University

Gildart Haase School of Computer Sciences & Engineering (GHSCSE)

Cybersecurity Leadership: "National Center of Academic Excellence for Cyber Defense Education (CAE-CDE)" by NSA

18 cutting-edge labs, among the best in the North and Mid-Atlantic Regions

Offers 6 Masters of Science (MS) Programs

*Cybersecurity & Information Assurance   *Management Information Systems

*Electrical Engineering   *Computer Engineering

*E-Commerce   *Computer Science (Data Science, Cloud Computing and more)

Scan Zoom Registration

Scan Grad Program Info

Calendar of Events

Upcoming Events: March 2024 Onwards

Title	Date	Hosts	Location
EMC and Power Electronics Workshop : North Jersey Section Jt Chapter,AP03/MTT17	06 Mar 2024 10:30 AM	CH01092, CH01178, CH01184	Virtual
Beyond Automation: Empowering Students through Generative AI and Innovation! : Montclair State Univ	06 Mar 2024 03:00 PM	CH01096, R10327, STB21201	Montclair, New Jersey
IEEE North Jersey Section EXCOM - Meeting 6:30 PM : North Jersey Section	06 Mar 2024 06:30 PM	R10327	Hybrid Newark, New Jersey
AI-Powered Math Information Retrieval: What We Have & What We Need : Maine Section Chapter,C16/COM19	07 Mar 2024 12:00 PM	CH01070, CH01075, R1, R10017, R2, STB00961, WE10327	Virtual

Title	Date	Hosts	Location
LMMs for AI-Native Wireless Systems - AI/ML webinar : North Jersey Section	07 Mar 2024 06:00 PM	R10327	Virtual
Dr Tom Coughlin IEEE President: Prioritizing Societal and Ethical Concerns with Responsible AI : UK and Ireland Section Chapter, SIT30	13 Mar 2024 06:00 PM	CH01070, CH01092, CH01285, CH02100, CH07171, CH08031, CH08381, CH08667, LM20043, SIGHT060, SIGHT119, SIGHT177, WE10327	Virtual
Optimizing ORAN Security Design and Considerations : North Jersey Section	20 Mar 2024 11:00 AM	R10327	Virtual
Artificial General Intelligence (AGI)-Native Wireless Systems with Common Sense : North Jersey Section	21 Mar 2024 12:00 PM	R10327	Virtual

Title	Date	Hosts	Location
IEEE Prof Ali Abedi MESAT1-Maine's 1st Small Satellite : Northeastern USA - Region 1	29 Mar 2024 08:00 PM	CH01070, CH01075, CH01092, R1, R2, SIGHT119, SIGHT177, STB00961, WE10327	Virtual
EDS/CASS Distinguished Lecture: Semiconductor Innovation for Transformative Impact : North Jersey Section Jt Chapter,CAS04/ED15	03 Apr 2024 02:15 PM	CH01092, CH01184	Newark, New Jersey
AI Cybersecurity : North Jersey Section Chapter,C16	17 Apr 2024 12:00 PM	CH01091, CH01177	Virtual Teaneck , New Jersey
IEEE SSIT Lecture: Self-Driving Cars: The Good, the Bad & the Ugly : UK and Ireland Section Chapter, SIT30	30 Apr 2024 06:00 PM	CH01070, CH01285, CH02193, CH04051, CH06042, CH07171, CH08031, CH08381, CH08432, CH08667, CH08709, SIGHT060,	Virtual

Title	Date	Hosts	Location
		SIGHT119	
2024 IEEE North Jersey Section Awards Banquet : North Jersey Section	05 May 2024 03:00 PM	R10327	Whippany, New Jersey
Dr Robert Wilson, Nobel Laureate: Celebration 60th Anniversary 1st Measure of Cosmic Microwave Background Radiation CMB Big Bang Origins of the Universe : New Jersey Coast Section Jt. Chapter,IM09/C16	20 May 2024 12:00 PM	CH01070, CH01092, SIGHT119, WE10327, YP10327	Middletown Township, New Jersey
Summer Camp for Female Middle School and High School Students: SHE in ECE : North Jersey Section Jt Chapter,CAS04/ED15	02 Jul 2024 08:15 AM	CH01092, CH01178, CH01184, R10327, SIGHT177, WE10327	Newark, New Jersey

For Past Month's Events - February 2024 - Click Here

2024 IEEE North Jersey Section Volunteers

Executive Committee

Chair – Hong Zhao zhao@fdu.edu

First Vice-Chair – Emad Farag enfarag@ieee.org

Second Vice-Chair – Anisha Apte anisha_apte@ieee.org

Secretary - Adriaan J. van Wijngaarden avw@ieee.org

Treasurer – Avimanyou Vatsa avatsa@fdu.edu

Member-at-Large

Naresh Chand - chandnaresh@gmail.com

Har Dayal **–** dayalhar@gmail.com

Alfredo Tan **–**   tan@fdu.edu

Junior Past Chair – Ajay K. Poddar akpoddar@ieee.org

Senior Past Chair – Yu-Dong Yao Yu-Dong.Yao@stevens.edu

Society Chapters

Aerospace Electronic Systems

Chair – Cherif Chibane cherif.chibane@gmail.com

Vice-Chair – Kirit Dixit - kdixit@ieee.org

Antennas and Propagation / Microwave Theory and Techniques

Co-Chairs

Ajay Poddar akpoddar@synergymwave.com

Edip Niver niver@adm.njit.edu

Vice-Chair – Anisha Apte anisha_apte@ieee.org

Circuits and Systems/Electron Devices

Chair – Durga Misra dmisra@njit.edu

Vice Chair - Shaahin Angizi shaahin.angizi@njit.edu

Communications

Chair – Amit Patel - a.j.patel@ieee.org

Computer

Chair – Hong Zhao - zhao@fdu.edu

Vice Chair -Tao Han - tao.han@njit.edu

Computational Intelligence Society

Chair: Prasenjit Bhadra - prasenjit@ieee.org

Vice-Chair: Ratna Raj - ratna.raj@njit.edu

Control Systems

Chair – Marcos Netto marcos.netto@njit.edu

Electromagnetic Compatibility/Product Safety Engineering

Chair – Russell C. Pepe - rcpepe@ieee.org

Engineering in Medicine and Biology

Chair – Yu-Dong Yao **-** Yu-Dong.Yao@stevens.edu

Industrial Applications

Chair – Ken Oexle - k.oexle@ieee.org

Information Theory

Chair – Adriaan J. van Wijngaarden avw@ieee.org

Instrumentation & Measurement

Chair – Russell C. Pepe - rcpepe@ieee.org

Photonics

Chair – Naresh Chand chandnaresh@gmail.com

Power & Energy

Co-Chairs

Ronald W. Quade rwquade@ieee.org

Michael Miller michaelamiller8@gmail.com

Robotics & Automation

Chair - Mengchu Zhou zhou@njit.edu

Vice Chair - Shilpi Chakraborty shilpi@ieee.org

Signal Processing

Chair – Alfredo Tan - tan@fdu.edu

Social Implications of Technology

Chair – Kirit Dixit - kdixit@ieee.org

Systems, Man, and Cybernetics

Chair – Weitian Wang wangw@montclair.edu

Technology & Engineering Management

Chair – Kirit Dixit - kdixit@ieee.org

Vehicular Technology

Chair – Ionel Bajescu nelu108@yahoo.com

Affinity Groups and Councils

Consultants Network
Co-Chairs
Jim Julian
consultant@jimjulian.com
Jay Morreale p-brane@p-brane.com

Young Professionals
Chair – Larry Yang –
larry.yang@alcatel-lucent.com
Vice Chair -Patrick Beesley
Patrick.Beesley@se.com

Women in Engineering
Co-Chairs
Chitra Venkatraman
chitrav55@gmail.com
Reena Dahle
reena.dahleh@gmail.com
Ratna Raj (ratna.raj@njit.edu)

LIFE Members
Co-Chairs
Ken Oexle - k.oexle@ieee.org
Michael Miller -
michaelamiller8@gmail.com

Nanotechnology Council
Chair - Eui-Hyeok Yang -
ehyang@ieee.org

North Jersey SIGHT Group
Co-Chairs
Anisha Apte -
anisha_apte@ieee.org
Dushyant Deshmukh
pranavdush@gmail.com

Committees

Audit Committee
Co-Chairs
Ajay Poddar - akpoddar@ieee.org
Kalyan Mondal - mondal@fdu.edu
Mani Iyer - mani.iyer@ieee.org

Awards & Recognitions
Co-Chairs
Ken Oexle - k.oexle@ieee.org
Adriaan J. van Wijngaarden
avw@ieee.org

Educational Activities
Co-Chairs
Donald Hsu –
yanyou@hotmail.com
Kalyan Mondal – mondal@fdu.edu
Amit Patel – a.j.patel@ieee.org

Employment Network
Co-Chairs
Chitra Venkatraman
chitrav55@gmail.com
Naresh Chand
chandnaresh@gmail.com

Government and Industrial Liaisons
Co-Chairs
Art Greenberg
a.h.greenberg@ieee.org
Russell C. Pepe rcpepe@ieee.org

Group coordinator / History
Chair – Howard Leach -
h.leach@ieee.org

Legal Activities
Chair – Vacant

Membership Development
Chair – Michael Newell
-msnewell@ieee.org

MTT/AP Trade Show and Symposium

Chair – Kirit Dixit -
kdixit@ieee.org
Vice-Chair – Har Dayal
-dayalhar@gmail.com
TPC Co-Chair – George Kennall
gkk@lgsinnovations.com
TPC Co-Chair – Ajay Poddar
akpoddar@ieee.org

Newsletter
Chair – Anisha Apte
anisha_apte@ieee.org

Nominations and Appointments
Ajay Poddar - akpoddar@ieee.org
Kalyan Mondal - mondal@fdu.edu
Durga Misra - dmisra@njit.edu

PACE
Chair – Russell C. Pepe -
rcpepe@ieee.org
Co-Chair – Paul E. Ward -
peward@ieee.org

Pre-University Activities
Co-Chair – Chitra Venkatraman
chitrav55@gmail.com

Program Review Committee
Kirit Dixit - kdixit@ieee.org
Ajay Poddar - akpoddar@ieee.org
Emad Farag **-** enfarag@ieee.org

Student Activities
Chair - Melvin Lewis
(mlewis@fdu.edu)

Student Representative Committee
Chair - Kalyan Mondal
mondal@fdu.edu

Webmaster
Co-Chairs
Adriaan J. van Wijngaarden -
avw@ieee.org
Avimanyou Vatsa - avatsa@fdu.edu