



THE IEEE NORTH JERSEY SECTION NEWSLETTER

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Message from the IEEE North Jersey Section Chair Dr. Ajay Poddar



As we gaze forward to Feb 2022, the hope for jump-start of our in-person Section ExCom meeting in next month seem to be optimistic after the rapid Covid-19 vaccination effort by local government, community, and the society we live in. I hope, the effort from all the segments of the society will bring prosperity, hope, and renewed energy to us all! It is also my hopefulness that during this year we can continue to put our thoughts unruffled to progress all the North Jersey Section activities before us for serving our members and community. I welcome you to join as volunteers of our ExCom and take advantage of IEEE opportunities, and participate in as many activities throughout the year as possible both for professional and community impact and for the enrichment of our own knowledge and experiences.

As we move ahead, and share the lessons learned, new ideas, and widened outlooks, I am seeing a greater role of IEEE Section in addressing the inequality prevailing in our society. As a Chair of North Jersey Section, apart from technical events/meeting, I would also like to focus on the following agenda in 2022:

- Make an effort to mitigate inequality in gender, race, and geographical locations by a number of initiatives
- Knowledge dissemination via Chapter events (technical meetings, symposium, workshops, Student Design Contest)
- Transfer of Technology knowhow via the IEEE SIGHT (Special Interest Group on Humanitarian Technology) and ISV (IEEE Smart Village) Program.
- Emphasis on STEM (Science, Technology, Engineering, and Mathematics) to grow human resources worldwide for fulfilling the IEEE Mission “advancing technology for humanity”

IEEE North Jersey Section Leadership is committed to support Chapter activities for the benefit of the members.

Engaging in IEEE volunteering services can enable: (1) awareness of connection with community, (2) opportunity for professional development, (3) involvement in humanitarian projects for a good cause, and (4) a way of achieving sustainable development goals.

Awareness of Connection with community

Traditionally, war was necessary due to the innate instinct of humans to hog and raid for natural resources. With an abundant

supply of food and goods, and our ability to transport them, such conflicts can be avoided. Also, one of our greatest God's gifts is our human brain. With proper education, one can acquire knowledge with our brains, and use the knowledge to elevate our standards of living by producing goods that can be traded for food. This is vindicated by countries which are strapped for natural resources, such as the Nordic countries and Japan where they now trade high-tech goods for food. Moreover, brain work is gender and race neutral creating opportunity for women and men of different races to work together. We hope that with rapid growth in technology, economic development will spread to Africa as well as South America. We live in a world that grows more than enough food to feed us, and has the ability to manufacture more goods than ever.

Opportunity for Professional Development

With tremendous improvement in communication technologies, knowledge can be disseminated rapidly through Internet, and wealth can be shared through our new transportation capabilities.

Humanitarian Projects

Promotion of technology growth can help remove a number of existing inequalities in gender, race, and geographical location. The development of technology together with trade has helped equalize wealth around the world. The most notable of these are the industrialization of the Nordic countries, and Japan. Most recently, technology economy has led to the industrialization of China, and closely on the heel, the development of India. China claims that over 700 million people have been lifted out of poverty, which is more than the population of South America.

Sustainable Development Goals

The North Jersey SIGHT Group, established under the umbrella of the IEEE SIGHT and HAC (Humanitarian Activity Committee) will help to initiate following: (1) we will establish a collaboration with technical chapters to help with knowledge dissemination, (2) we will participate in the IEEE Smart Village Initiative to help with knowledge transfer through the transfer of know-hows that will help the underserved community, (3) we will emphasize and promote STEM (Science, Technology, Engineering, and Math) education globally, and (4) we need to be a good steward of the planet Earth to live symbiotically with our environment.

The Humanitarian Activities community provides a forum for the sharing of information, ideas, and inspiration related to improving living conditions of the underserved around the world. IEEE North Jersey Section initiates STEM and Humanitarian Project Activities towards enabling the vision that IEEE will possess a large network of next generation

You do not have to be an IEEE member but prior registration is encouraged to attend any event. [IEEE North Jersey Section Website](#) [The Section Executive Committee Roster](#)

students and young professional volunteers for carrying out and/or supporting impactful humanitarian activities on the local level. I encourage one and all to attend Chapter's technical events co-sponsored by Section, stay current with opportunities and gain insights around the community's shared interests including location, or career pursuits, network with like-minded people, discover and receive answers to technical and professional questions.

Section/Chapter Activities

Section/Chapter events help knowledge sharing and transfer. I urge ExCom members and Chapter Officers to cultivate professional and educational agendas promoting and supporting capacity building for engineering and technical professionals in the schools where those resources are negligible. Following initiatives is in the Section Agenda:

- Encourage STEM education worldwide, in collaboration with Try Enginering (<https://tryengineering.org/>). We believe that the gender, racial, ethnic, and regional inequalities we are facing start early in life, and they have to be solved very early. One way to counter and mitigate these inequalities is by education, especially STEM Education by sharing best practices around the world.
- Connecting IEEE Leaderships, Global Chapters and International Technical experts with local members and volunteers to ensure sustainability of funded projects.
- Scale up IEEE Goal by Collaboration and Engagement with SIGHT, HAC, ISV, UN, and UNESCO.

US NAE (National Academy of Engineering) Grand Challenges for engineering

The US NAE (<http://www.engineeringchallenges.org>) brought together a panel of leading people in academia, policy and business with the charge to identify a small number of grand challenges for engineering in the 21st century. This interdisciplinary group concluded that the 14 areas would be the Grand Challenges of Engineering in the 21st century, described below.

Challenge 1

Advance Personalized Learning



A growing appreciation of individual preferences and aptitudes has led toward more “personalized learning,” in which instruction is tailored to a student’s individual needs. Given the diversity of individual preferences, and the complexity of each human brain, developing teaching methods that optimize learning will require engineering solutions of the future.

Challenge 2

Make Solar Energy Economical



Currently, solar energy provides less than 1 percent of the world's total energy, but it has the potential to provide much, much more.

Challenge 3

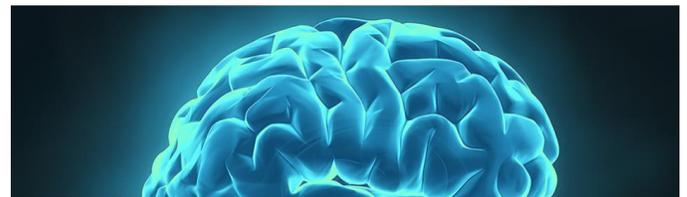
Enhance Virtual Reality



Within many specialized fields, from psychiatry to education, virtual reality is becoming a powerful new tool for training practitioners and treating patients, in addition to its growing use in various forms of entertainment.

Challenge 4

Reverse-Engineer the Brain



A lot of research has been focused on creating thinking machines—computers capable of emulating human intelligence— however, reverse-engineering the brain could have multiple impacts that go far beyond artificial intelligence and will promise great advances in health care, manufacturing, and communication.

Challenge 5

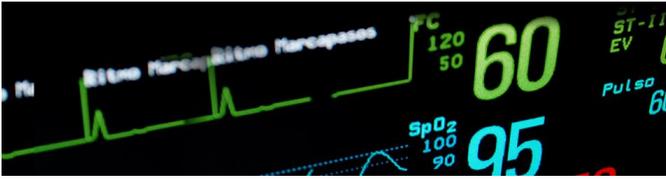
Engineer Better Medicines



Engineering can enable the development of new systems to use genetic information, sense small changes in the body, assess new drugs, and deliver vaccines to provide health care directly tailored to each person.

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Challenge 6 Advance Health Informatics



As computers have become available for all aspects of human endeavors, there is now a consensus that a systematic approach to health informatics - the acquisition, management, and use of information in health - can greatly enhance the quality and efficiency of medical care and the response to widespread public health emergencies.

Challenge 7 Restore and Improve Urban Infrastructure



Infrastructure is the combination of fundamental systems that support a community, region, or country. Society faces the formidable challenge of modernizing the fundamental structures that will support our civilization in centuries ahead.

Challenge 8 Secure Cyberspace



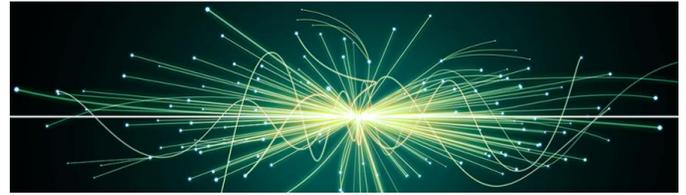
Computer systems are involved in the management of almost all areas of our lives; from electronic communications, and data systems, to controlling traffic lights to routing airplanes. It is clear that engineering needs to develop innovations for addressing a long list of cybersecurity priorities.

Challenge 9 Provide Access to Clean Water



The world's water supplies are facing new threats; affordable, advanced technologies could make a difference for millions of people around the world.

Challenge 10 Provide Energy from Fusion



Human-engineered fusion has been demonstrated on a small scale. The challenge is to scale up the process to commercial proportions, in an efficient, economical, and environmentally benign way.

Challenge 11 Prevent Nuclear Terror



The need for technologies to prevent and respond to a nuclear attack is growing.

Challenge 12 Manage the Nitrogen Cycle



Engineers can help restore balance to the nitrogen cycle with better fertilization technologies and by capturing and recycling waste.

Challenge 13 Develop Carbon Sequestration Methods



Engineers are working on ways to capture and store excess carbon dioxide to prevent global warming.

Challenge 14 Engineer the Tools of Scientific Discovery



In the decade ahead, engineers will continue to be partners with scientists in the great quest for understanding many unanswered questions of nature.

COVID-19 Pandemic and Humanitarian Technology Challenges:

How will engineering influence virus related biological research for saving human lives?

Biologists are always seeking, for instance, better tools for imaging the DNA and genes, they will depend on engineering help — perhaps in the form of high resolution microscope and imaging devices, new mathematical and computing methods, incorporated into the emerging discipline of “systems biology,” may show the way to better treatments of disease and better understanding of healthy life. Perhaps even more intriguing, the biomedical engineering discipline will help in study of “synthetic biology” may enable the design of entirely novel biological chemicals and systems that could prove useful in applications ranging from fuels to medicines to environmental cleanup and more.

Turning to the mysteries of our own minds, engineering can influence methods for studying the memory, learning, emotions, and thought. In the process, mental disorders may be conquered and learning and thinking skills enhanced.

Ultimately, such advances may lead to a credible answer to the deepest of human mysteries, the question of the origin and nature of consciousness itself.

How will engineering help us explore the universe?

In its profundity, only one question compares with that of consciousness — whether the universe is host to forms of life anywhere else than on Earth. Systems capable of probing the cosmos for evidence surely represent one of engineering’s grandest challenges. Even apart from the question of extraterrestrial life, the exploration of space poses a considerable challenge. Long-distance human space flight faces numerous obstacles, from the danger of radiation to the need to supply sustainable sources of food, water, and oxygen. Engineering expertise will be critical in overcoming those obstacles, and many efforts to expand that expertise are underway. One line of research, for example, envisions a set of connected bioreactors populated by carefully chosen microbes. Metabolism by the microbes could convert human wastes into the resources needed to support long-term travel through space.

IEEE AP-S Ulrich L. Rohde Humanitarian Project Award Call for Proposal

IEEE AP-S SIGHT are currently offering a **special Call for Proposals to support AP-S Chapter projects** that utilize AP-S-relevant technology to address local community challenges. The Call is open through 15 June 2022. Ulrich L. Rohde Humanitarian Project Awards of up to US\$10,000 will be made to selected projects on pressing issues challenging an underserved community. For detail information, contact Dr. Anisha Apte (anisha_apte@ieee.org), member AP-S SIGHT and elected IEEE AP-S AdCom member, 2022-2024.

I wish all the members good health and a productive time ahead.

Ajay Poddar,

IEEE North Jersey Section Chair

IEEE – IMPORTANT EVENTS, ARTICLES, ANNOUNCEMENTS AND REMINDERS:

- [This Month's Communications Society News from Around the World](#)
- [“Edison Patents” - An article by Harry Roman for the February Newsletter](#)

Edison Patents

Ask any Edison aficionado how many patents Edison accumulated over his lifetime, and the answer likely will be 1,093. However, that is the number of the domestic patents he was awarded. When you add in his foreign patents the total jumps to 2,332. His foreign patents totaled 1,239--more than his domestic patents, and these overseas patents were awarded to him across 34 countries.

Moreover, during his lifetime, Edison filed roughly 500 patent applications that were rendered unsuccessful or abandoned. This is not unusual at all in the patent world. Generally speaking, only about 65% of all U.S. patent applications filed become successfully granted. If we assume that Edison's misfired patent applications were for his domestic patents, then he had a success rate of 69%--pretty much on target.

Edison's patents were either entire systems or components that support such systems. His patent applications were submitted throughout his lifetime; however, a majority of his most successful applications were filed either between 1872-1890 or 1897-1912.

In fact, Edison recorded his work and inventions in 4,000 notebooks, giving us great insight into the man and his creativity. Since Edison is the model for the modern STEM curriculum, students study his invention process [known in classrooms as the "engineering design process"] and keep notebooks to document their inventive work.

Talk to you again soon...

Harry

Harry T. Roman, Life Senior Member
 Author & Advisor, Edison Innovation Foundation
 (Retired-PSE&G Co.)
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GRADUATE SCHOOL VIRTUAL OPEN HOUSE!

Wednesday, February 16, 2022, 6 p.m.

Fairleigh Dickinson University

Gildart Haase School of Computer Sciences & Engineering (GHSCSE)

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

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Scan Zoom Registration



Scan Grad Program Info












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Calendar of Events

Current Events – February Events

Date and Time	Title
01 Feb 2022 09:30 AM to 11:00 AM	Heuristics for external cluster tool scheduling in flexible flow shops, SMC28 Location: Required - External Registration/Joining link , ECE-NJIT, 323 MLK Blvd. Newark, NJ 07102 Contact: Prof. Mengchu Zhou (zhou@njit.edu) Speaker: Dr. Fajun Yang, Humboldt Research Fellow, Dept. of Mathematics and Computer Science, Hagen University, Germany
02 Feb 2022 06:00 PM to 08:30 PM	IEEE North Jersey Section - EXCOM - Zoom: North Jersey Section, R10327 - North Jersey Section Location: Required - vTools Registration link Contact: Ajay Poddar (akpoddar@ieee.org), Adriaan van Wijngaarden (avw@ieee.org)
08 Feb 2022 12:00 PM to 01:00 PM	Security for Radar Sensors: Attacks and Risk Mitigation: AP03/MTT17, CAS04/ED15, SIGHT177, PHO36, VT06 Location: Required - External Registration link Contact: Ajay Poddar (akpoddar@ieee.org), Durga Misra (dmisra@ieee.org), Edip Niver (edip.niver@njit.edu), Anisha Apte (anisha_apte@ieee.org) Speaker: Prof. Changzhi Li of Department of Electrical and Computer Engineering, Texas Tech University, USA
10 Feb 2022 01:00 PM to 02:00 PM	The role of AI/ML in future wireless communication – an early test & measurement perspective, AP03/MTT17, CAS04/ED15 Location: Required - External Registration link Contact: Ajay Poddar (akpoddar@ieee.org), Durga Misra (dmisra@ieee.org), Edip Niver (edip.niver@njit.edu), Anisha Apte (anisha_apte@ieee.org) Speaker: Andreas Roessler of Rohde & Schwarz
11 Feb 2022 09:00 AM to 11:00 AM	Proliferation of Distributed Energy Resources - PES / IAS / LM Joint Meeting: PE31, CH01098 - No Jersey/Prin-Ctr Jersey Jt Sections Chapter, IA34, LM10327 - North Jersey Section Affinity Group, LM Location: Required - External Registration Link Required - vTools Registration link Contact: Ronald Quade (rwquade@ieee.org) Speakers: Sankaran Rajagopal of Siemens Digital Grid, Jim Waight of Siemens Digital Grid
23 Feb 2022 12:00 PM to 01:00 PM	Machine Learning Assisted Network Slicing for Wireless Edge Computing System: C16, SP01 Location: Required - External Registration/Joining link Required - vTools Registration Link Contact: Prof. Hong Zhao (zhao@fdu.edu) Speaker: Dr. Tao Han of ECE Department, NJIT
23 Feb 2022 04:45 PM to 06:30 PM	SDR: Past, Present, and Future, CAS04/ED15, AP03/MTT17, AES10, VT06 Location: Required – External Registration/Joining link Contact: Ajay Poddar (akpoddar@ieee.org), Durga Misra (dmisra@ieee.org), Edip Niver (edip.niver@njit.edu), Anisha Apte (anisha_apte@ieee.org) Speaker: Prof. Cherif Chibane of New Jersey
23 Feb 2022 06:30 PM to 07:30 PM	The Galileo Project: In Search for Technological Interstellar Objects - IEEE SSIT Ch. Meeting: Northern Virginia/Baltimore/Washington, North Jersey Section, Phoenix Section Chapter, SIT30, Student Activities Location: Required - External Registration link Required - vTools Registration Link Contact: Murty (murtyp@ieee.org), Kirit Dixit (kdixit@ieee.org), Michael Andrews (michael@andrews-associates.com) Speaker: Dr. Avi Loeb of Harvard University

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24 Feb 2022 08:00 PM to 09:00 PM	<p>Towards Designing Autonomous Systems - Convergence of Cognitive AI and Robotic Process Automation, North Jersey Section Jt Chapter, CIS11, RA24</p> <p>Location: Required - External Registration/ Joining Link Required - vTools Registration Link</p> <p>Contact: Prasenjit Bhadra (prasenjit@ieee.org), Shilpi Chakraborty Bhadra (shilpi@ieee.org)</p> <p>Speaker: Prasenjit Bhadra of Raniel Systems</p>
10 Mar 2022 05:45 PM to 07:45 PM	<p>Towards Energy-Efficient Domain-Specific In-Sensor and In-Memory Accelerators, From Device to Algorithm, North Jersey Section Jt Chapter, CAS04/ED15, AP03/MTT17</p> <p>Location: ECEC 202, NJIT, 154, Summit Street. Newark, NJ 07102 Required - vTools Registration Link</p> <p>Contact: Ajay Poddar (akpoddar@ieee.org), Durga Misra (dmisra@ieee.org), Edip Niver (edip.niver@njit.edu), Anisha Apte (anisha_apte@ieee.org)</p> <p>Speaker: Prof. Shaahin Angizi of New Jersey Institute of Technology</p>

Past Month's Events – January 2022 Events

Date and Time	Title
11 Jan 2022 12:00 PM to 01:00 PM	<p>Technology Enablers for 21st Century Applications in mm-wave Communications and Nanomedicine: North Jersey Section Jt Chapter, AP03/MTT17, CAS04/ED15, EMB18</p> <p>Location: Required - External Registration link</p> <p>Contact: Ajay Poddar (akpoddar@ieee.org), Durga Misra, (dmisra@ieee.org), Edip Niver (edip.niver@njit.edu), Anisha Apte (anisha_apte@ieee.org), Har Dayal (</p> <p>Speaker: Prof. Rhonda Franklin of Department of Electrical and Computer Engineering University of Minnesota</p>
12 Jan 2022 06:30 PM to 08:30 PM	<p>IEEE North Jersey Section - EXCOM - Zoom: North Jersey Section</p> <p>Location: Required - External Registration link</p> <p>Contact: Ajay Poddar (akpoddar@ieee.org), Adriaan van Wijngaarden (avw@ieee.org)</p>
13 Jan 2022 06:30 PM to 09:30 PM	<p>Arduino PRO for Telecommunications, IoT, and Industry 4.0: North Jersey Section Affinity Group, CNNNJ</p> <p>Location: Required - External Registration Link Required - vTools Registration link</p> <p>Contact: info@technologyontap.org</p> <p>Speaker: Massimo Sacchi (@MassimoSacchi7), Corporate Partnerships Manager at Arduino Pro</p>
18 Jan 2022 11:00 AM to 12:00 PM	<p>Advances in C-V2X and automotive connectivity: North Jersey Section Jt Chapter, AP03/MTT17, CAS04/ED15</p> <p>Location: Required - External Registration link</p> <p>Contact: Ajay Poddar (akpoddar@ieee.org), Durga Misra (dmisra@ieee.org), Edip Niver (edip.niver@njit.edu), Anisha Apte (anisha_apte@ieee.org)</p> <p>Speaker: Holger Rosier of Rohde & Schwarz, Daniel Ion of Rohde & Schwarz</p>
26 Jan 2022 04:45 PM to 06:30 PM	<p>SDR: Past, Present, and Future: North Jersey Section Jt Chapter, CAS04/ED15, AP03/MTT17</p> <p>Location: Required - External Registration link</p> <p>Contact: Ajay Poddar (akpoddar@ieee.org), Durga Misra, (dmisra@ieee.org), Edip Niver (edip.niver@njit.edu), Anisha Apte (anisha_apte@ieee.org)</p> <p>Speaker: Prof. Cherif Chibane of New Jersey</p>

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Anisha Apte – anisha_apte@ieee.org

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Senior Past Chair – Kalyan Mondal
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Co-Chair – Edip Niver niver@adm.njit.edu

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