

THE IEEE NORTH JERSEY SECTION NEWSLETTER

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JUNE-JULY 2015

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IEEE North Jersey Section Seeks Committee Chairs and Section Volunteers

The IEEE North Jersey Section is seeking new volunteers to help conduct business for the benefit of its membership. There are a variety of volunteer positions open and available. They range from technical to non-technical, leadership or just participatory. A list of IEEE North Jersey Societies, Chapters, Groups and Committees are published at the end of the newsletter for those interested in participating. If you would like to become involved with volunteering in some of these efforts or positions or just become more informed about what is happening at the North Jersey Section, please contact Adriaan van Wijngaarden (avw@ieee.org) and Naresh Chand, the Section's Nominations Committee Chair (chandnaresh@gmail.com) and/or any other volunteer (see the last page of this Newsletter for a list of the current volunteers, their contact information and positions. The Section's Executive Committee meeting is generally held the first Wednesday of every month (see the schedule and locations above, as well as more detailed information in the calendar). These meetings are a good opportunity to learn more about the Section's activities, and which volunteer activities require some help. Some committees needing volunteers include the following. Please contact the person indicated for additional information.

IEEE North Jersey Section's Affinity Groups

• Consultants Network

The Consultants Network is very active and holds monthly meetings. Please consider attending the presentations, and

contact Robert Walker, Secretary (r.d.walker@ieee.org) if you would like to give a presentation or become a volunteer.

• Professional Activity Committee for Engineers (PACE)

PACE organizes monthly meetings (every second Wednesday of the month). Currently, most meetings are held at the library in Clifton, NJ. PACE is looking for speakers and volunteers to help organize events, also at other locations. For more information, please contact Richard Tax (rtax@verizon.net) and Adriaan J. van Wijngaarden (avw@ieee.org).

• Women in Engineering (WIE)

IEEE Women in Engineering is the largest international professional organization dedicated to promoting women engineers and scientists, and to inspire girls around the world to follow their academic interests to a career in engineering. The IEEE North Jersey Section currently has 36 WIE members, 14 of which are student members. Please consider volunteering and organizing WIE activities. Contact: Jyoti Bali (jyoti.bali@alcatel-lucent.com).

• Young Professionals (YP)

Young Professionals is an international community of enthusiastic, dynamic and innovative members and volunteers. Recent graduates automatically become a YP member. The IEEE North Jersey Section currently has 509 YP members. Please consider becoming involved in the organization of social and networking events. For more information, please contact John Taylor (john.taylor1204@gmail.com), Adriaan van Wijngaarden (avw@ieee.org), and/or Daniel Cerone (d.a.c@ieee.org).

IEEE North Jersey Section Society Chapters

• Aerospace and Electronic Systems (AES)

The North Jersey Section has 27 AES members. If you are interested in giving a presentation or to volunteer, please contact Goran Djuknic (gd@ieee.org) and/or Adriaan van Wijngaarden (avw@ieee.org).

• Engineering in Medicine and Biology (EMBS)

The North Jersey Section has 58 EMBS members. If you are interested in giving a presentation or to volunteer, please contact Russell Pepe (rcpepe@ieee.org) and/or Adriaan van Wijngaarden (avw@ieee.org).

• Computer Society (C)

The IEEE Computer Society has 545 members in North Jersey. If you are interested in giving a presentation or to volunteer, please contact Hanna Zhao (zhao@fdu.edu) and/or Howard Leach (h.leach@ieee.org).

IEEE North Jersey Section Committees

• Awards Committee

The Awards Committee has several important tasks, including the nomination of candidates for IEEE Region 1 and IEEE MGA Awards, and the co-organization of the Annual Awards Banquet. If you are interested in

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volunteering, or if you would like to nominate a candidate, please contact KenOexle (k.oexle@ieee.org) and/or Adriaan van Wijngaarden (avw@ieee.org).

• Membership Development Committee

Membership development is very important for the IEEE and for the Section. If you are interested to help, please contact Kai T. Chen (k.t.chen@ieee.org) and/or Adriaan van Wijngaarden (avw@ieee.org).

Additionally, if interested volunteers would like to get more general information about the section, including a complete listing of all chapters and committees, visit the North Jersey section website <http://sites.ieee.org/northjersey> or contact anyone listed above.

2015 EXCOM Meeting Schedule

The new 2015 EXCOM meeting schedule is now in vTools. The events start at 6 pm with a buffet, and the EXCOM meeting starts at 7 pm. The meeting locations are:

Wed	Jun.3	Clifton Library, Clifton
Wed	Aug.5	Bell Labs, Murray Hill
Wed	Sep.2	Clifton Library, Clifton
Wed	Oct.7	NJIT, Newark
Wed	Nov.4	Bell Labs, Murray Hill

North Jersey Section Employment Network Announcement

Join the North Jersey Employment Network for assistance with your job search. By joining our network, you will have access to our LinkedIn group and to seminars in a variety of emerging technologies such as Hadoop, Big Data, Python, Cloud, Analytics, Java, etc.

For additional information or to join the LinkedIn group, please email the Employment Network Chair, Vaseem Ahmed (vas201@gmail.com).

How to subscribe to this Newsletter if you are not an IEEE North Jersey Member?

To subscribe, send an email to: listserv@listserv.ieee.org, with the body containing "subscribe northjerseypublic".

To unsubscribe, send an email to: listserv@listserv.ieee.org, with the body containing "signoff northjerseypublic".

Additionally, you can join the IEEE North Jersey Section Facebook Fan Page at:

www.facebook.com/pages/IEEE-North-Jersey-Section

Follow us on Twitter at: twitter.com/ieeenorthjersey

Or join the IEEE North Jersey Section LinkedIn Group at:

[LinkedIn Group Invitation](#)

Hydropower-like Energy Storage, Without the Water

You read that right... storing energy like in hydroelectric dams, but with zero water usage. In fact, all you need are some railroad tracks, railroad storage cars equipped with motor/generators on the wheels, and lots and lots of rocks. That's it.

Right now in the Tehachapi area of California, where many operating wind turbines already exist, a demonstration rail project is providing proof that the ARES [Advanced Rail Energy Storage] project can be deployed to capture and store wind and solar energy for later use. In the 1960s and 70s, pumped storage hydroelectric projects were used nationally by utility engineers to pump water to great heights during off-peak periods and let it run back downhill during peak periods to generate needed electricity. The big problem was water and great heights were not always available at a single location, and the environmental aspects were often daunting to contend with. Sites were very limited.

ARES Demo Project Rock Rail Car in Operation

Along comes ARES and voila, no water - with rocks as substitutes for the weight of water. ARES moves rocks up gently graded hills and stores their potential energy for later use. Excess wind and solar energy move the rocks uphill, with the motors on the rail cars doing the work. When the rocks are ready to make their descent, the motors are employed in reverse as generators, and electricity flows back into the grid. ARES engineers claim an 85% round-trip efficiency of the system - very impressive. Now imagine multiple trains of rail cars going up and down desert hills, and we are talking hundreds of megawatts of stored power-maybe as much as 500-800 MW, enough for 50,000-80,000 homes.

Economists estimate by 2021, the U.S. utility energy storage market will be in excess of \$25 billion. Looks like ARES may be a significant and clean way to engage that market without the need to develop new technologies. We sure know how to build railroads. Motor/generator sets are quite common [in fact, every electric vehicle has them on its wheels to drive the vehicle and to activate regenerative braking to recharge the batteries and extend range]. And rocks... well we got lots of those... no need to import them. We can do it all here in the good 'ol US of A.

Did I mention that when the system reaches its useful life, everything gets recycled, the railroad lines get taken up and the site is not fouled with chemicals or other contaminants that require remediation? That is what you call A+ sustainability folks. Never underestimate the "power" in rocks!

Hey, maybe this technology can be used to build out some significant additional capacity at existing pumped hydro sites?

Check it out; and the video at

<http://www.aresnorthamerica.com/>

Talk to you later,

Harry

Harry T. Roman

IEEE Life Senior Member, North Jersey Section

About Senior Membership

Do you know an outstanding IEEE member who is not yet an IEEE Senior Member? Do you feel that you are qualified for such recognition? If you are interested in becoming a Senior Member or nominating a fellow IEEE member please see http://www.ieee.org/membership_services/membership/senior for an application and for qualification requirements.

Assistance with references is found on the Senior Member Web page and within the application form. You can also contact any of the IEEE North Jersey Section Executive Committee members including the Membership Development Chair or Society Chapter Chairs at the local level or attend an IEEE North Jersey Section meeting or upcoming Senior Member Drive, where qualified attendees will be happy to actively support you in the nomination process.

If you would like to join the Pre-University forces of the IEEE North Jersey Section, I can provide you with my presentations. Again, please contact me by e-mail.

Taylor's World Conference – Call for Papers

On September 24-25, 2015, Stevens Institute of Technology will be hosting a conference on the life and legacy of Frederick Winslow Taylor, a graduate of Stevens who is widely recognized as the father of scientific management. The event marks the centennial of Taylor's death in 1915, and will explore both Taylor's place in history and his legacy in the 21st century. We welcome proposals for either individual papers or full panels.

For details about the event please visit <http://www.stevens.edu/library/taylorsworld>

Please submit proposals for papers or panels by March 1, 2015, by filling out submission proposal form. Paper proposals should be 250–500 words; panel proposals should collect individual paper abstracts of that same length and also include a brief description of the panel's overarching theme. Panel proposals may also suggest possible commentators.

All other inquiries about the conference can be sent to Leah Loscutoff (lloscuto@stevens.edu).

Promote STEM

Russell C. Pepe, Pre-University Co-Chair

Hi all. I hope you still remember me. This is Russell Pepe, your former North Jersey Section Chair for 2013-2014. I am now the Co-Chair of the Pre-University Committee. My focus in this position is to introduce our High School and Elementary School children to the world of technology. I strongly believe that a life steeped in technology is exciting, important and beneficial to the world. I have a great video which was prepared by the IEEE Headquarters. I spice this presentation with anecdotes from my own career. My mission is to first expose our children to the world of technology, educate them about Science, Technology, Engineering and Math (STEM), and then encourage them to consider a STEM education and career.

I am available to speak at a school in your area. If you are interested in having me make a presentation, please contact me at: rcpepe@ieee.org

Calendar of Events

- **June 3, 6:00 PM to 8:45 PM: IEEE North Jersey Section EXCOM Meeting – Clifton NJ**
Location: Clifton Public Library (Allwood Branch, 44 Lyall Road, Clifton, NJ 07012 [Getting to Clifton Public Library](#))
Contact: Adriaan J. van Wijngaarden (avw@ieee.org) or Kai T. Chen (k.t.chen@ieee.org). [Read More...](#)
- **June 10, 6:30 PM to 9:00 PM: IEEE North Jersey Section PACE- Engineers Meet (Second Wednesday of every month)**
Location: Clifton Memorial Library, 292 Piaget Ave., Clifton, NJ 07011 [Getting to Clifton Memorial Library](#) (Tel. 973 772-5500)
Contact: Richard F. Tax, (201- 664-6954) rtax@verizon.net [Read More...](#)
- **June 11, 6:30 PM to 8:30 PM: IEEE CNNNJ – Patent Law Updates for Technical Professionals - Mark Annett, President, Annett Enterprises**
Location: Morris County Library, 30 East Hanover Avenue, Whippany, NJ 07981 [Getting to Morris County Library](#)
Contact: Robert Walker, 973-728-0344, or visit our website, www.TechnologyOnTap.org [Read More...](#)
- **June 15, 5:30 PM to 7:00 PM - IEEE AP/MTT, ED/CAS – 3D Surface Reconstruction – Dr. Vincenzo Piuri, Università degli Studi di Milano**
Location: NJIT - ECE 202, 161 Warren Street, Newark, NJ 07102 [Getting to NJIT](#)
Contact: Ajay Poddar, (201) 560-3806 (akpoddar@ieee.org), Edip Niver (973)596-3542 (edip.niver@njit.edu), Durga Misra (dmisra@njit.edu) [Read More...](#)
- **June 17, 1:00 PM to 2:00 PM: IEEE SMC – Ten Questions for Best Practice of Data Science - Dr. Qiong Shen, NJIT, NJ, USA**
Location: NJIT - ECE 202, 161 Warren Street, Newark, NJ 07102 [Getting to NJIT](#)
Contact: Mengchu Zhou (zhou@njit.edu), [Read More...](#)
- **June 17, 6:30 PM to 8:00 PM - IEEE EMC/PSES - Construction and operation of a reverberation chamber - David Larrabee of ESU**
Location: Bell Laboratories, Alcatel-Lucent, Main Building, Room: 6A-106, 600 Mountain Avenue, Murray Hill, NJ 07974, [Getting to Bell Labs](#)
Contact: Dan Roman (danpses@verizon.net) [Read More...](#)
- **June 18, 4:30 PM to 6:00 PM - IEEE AP/MTT, ED/CAS – LIGHT and LIFE: Applications to Biology and Medicine – Prof Siva Umaphathy of Indian Institute of Science, Bangalore, India**
Location: NJIT - ECE 202, 161 Warren Street, Newark, NJ 07102 [Getting to NJIT](#)
Contact: Naresh Chand (chandnaresh@gmail.com), Ajay Kumar Poddar, (201) 560-3806 (akpoddar@ieee.org) [Read More...](#)
- **June 29, 2:00 PM to 3:00 PM: IEEE SMC, CSS – Operator based modeling, robust nonlinear control and fault detection & isolation - Prof. Mingcong Deng Professor, Tokyo University of Agriculture and Technology, Japan**
Location: NJIT - ECE 202, 161 Warren Street, Newark, NJ 07102 [Getting to NJIT](#)
Contact: Mengchu Zhou (zhou@njit.edu), [Read More...](#)
- **July 15, 2:30 PM to 3:30 PM - IEEE COMSOC/VTS – D2D: Research Trends and Future Perspectives - Prof. Nei Kato, Tohoku Univ. Japan**
Location: NJIT - ECE 202, 161 Warren Street, Newark, NJ 07102 [Getting to NJIT](#)
Contact: Nirwan Ansari (nirwan.ansari@njit.edu), Mani Iyer (miyer108@gmail.com) [Read More...](#)
- **August 05, 6:00 PM to 9:00 PM: IEEE North Jersey Section EXCOM Meeting – Murray Hill NJ**
Location: Bell Laboratories, Alcatel-Lucent, Main Building, Room: 6A-106, 600 Mountain Avenue, Murray Hill, NJ 07974,
Contact: Adriaan J. van Wijngaarden, avw@ieee.org (avw@ieee.org), [Getting to Bell Labs](#) [Read More...](#)

IEEE North Jersey Section IT and FDU - 3rd Annual Cybersecurity Symposium: – September 30, 2015, Fairleigh Dickinson University Florham Campus 285 Madison Avenue Madison, New Jersey 07940 - See more at: <http://view2.fdu.edu/campuses-and-centers/center-for-cybersecurity-and-information-assurance/events/symposium-3/student-poster-competition/#sthash.qsGyaFx7.dpuf>, <http://tinyurl.com/fducyberpostercompetition>

IEEE NORTH JERSEY SECTION – Short Courses

- **IEEE North Jersey Section Course: C# .NET Programming in Seven Saturdays** - Seven weekly classes (July 11, 18, 25, August 1, 8, 15, 22, 2015) 12:30 pm - 3:30 pm, New Jersey Institute of Technology, Newark, New Jersey
- **IEEE North Jersey Section Course: Big Data Market Research in Seven Saturdays** - Seven weekly classes (July 11, 18, 25, August 1, 8, 15, 22, 2015) 9:00 am - 12:00 noon, New Jersey Institute of Technology, Newark, New Jersey

*The **DEADLINE** to get your articles, advertisements, flyers in the newsletter is the **15th OF THE MONTH**. Events **MUST** be on vTools. Word limit for Abstracts is 100 and speaker biography is 250. Remember to provide the sponsoring society/chapter/committee names, contact person information, and location with link for directions. E-mail Anisha Apte at anisha_apte@ieee.org only if required, for inclusion in the next month's newsletter....*

- Prior registration is encouraged and appreciated. You do not have to be an IEEE member to attend any event.
- For up to date information, visit our website: [IEEE North Jersey Section](#) Visit: [vTools Registration](#) to register for a meeting or event

Meeting Announcements

June 3, 2015

IEEE North Jersey Section EXCOM Meeting – Clifton, NJ

Meeting Agenda: This executive committee (EXCOM) meeting of the IEEE North Jersey Section will be held in the Activity Room of the Clifton Public Library (Allwood Branch, 44 Lyall Road, Clifton, NJ 07012, T: (973) 471 0555).

There will be a get-together with a buffet starting at 6 pm.

The meeting starts at 7 pm EST and typically ends at 8:45 pm, when the library closes. The meeting is meant to discuss and coordinate the section's activities and new initiatives.

Everyone is welcome to attend this meeting.

Please register in advance for this meeting using VTOOLS to provide the meeting organizers an accurate head count. You can change/cancel the registration if your plans change.

For more information, please contact Adriaan van Wijngaarden (avw@ieee.org) and/or Kai Chen (k.t.chen@ieee.org).

Location: Clifton Public Library (Allwood Branch), 44 Lyall Road, Clifton, NJ 07012 [Getting to Clifton Public Library](#)

Time: 06:00 PM to 08:45 PM

Contact: Adriaan van Wijngaarden (avw@ieee.org) or Kai T. Chen (k.t.chen@ieee.org)

[For Updates and Registration: Click Here](#)

June 10, 2015

IEEE North Jersey Section PACE – Engineers Meet

Abstract: On Wednesday, June 10, 2015 the North Jersey Section Professional Activities Committee will meet for an Open Discussion and Social with Pizza, soda & refreshments.

How many companies have left New Jersey during your career? Do we have any good news? Maybe yes, Maybe No, but it is nice to see old friends. What would IEEE-USA like our PACE members to do? IEEE-USA is concerned about the H-1B issue and so are we.

This meeting is about getting members of the Section together for a light evening of discussion and hospitality. Basically we can hold a brainstorming session to discuss future meetings and activities. All are invited. We shall encourage North Jersey Section Ex-Com officers to attend. Attendees will have an opportunity to select Subjects and Speakers for future meetings. Bring your associates, friends and spouses.

Everyone will have an opportunity to express their views about the profession, jobs, and opportunities. We begin with Member introductions. Let's get active and make things happen.

Join the IEEE North New Jersey Section for an evening discussion.

A mid-meeting break will provide pizza and refreshments.

Location: Clifton Memorial Library, 292 Piaget Ave., Clifton, NJ 07011 [Getting to Clifton Memorial Library](#) (Tel. 973 772-5500)

Time: 6:30 PM to 8:45 PM, (second Wednesday of every month).

Contact: Richard F. Tax (201- 664-6954) (rtax@verizon.net)

PACE HELP! To All: We need guest speakers and subjects for meetings.

For Updates and Registration: Call (201 664-6954 or send to rtax@AEA.org)

June 11, 2015

IEEE Consultants' Network of Northern NJ presents: Patent Law Updates for Technical Professionals

Speaker: Mark Annett, President, Annett Enterprises.

Abstract: The patent system has been going through some significant changes, from becoming a first-to-file country to the recent Supreme Court "Alice" decision, which has thrown many existing companies software patent portfolios into question.

Mark Annett, a registered patent agent will not only provide an update on recent changes but also an overview of the patenting process as it applies both to software and to devices.

Biography: Mark Annett, MS BME, registered patent agent #69401, has designed spinal implements as well as having worked on neurological stimulators and heart pumps and is currently the president of Annett Enterprises (www.AnnettEnt.com), an intellectual property and product development think tank and acquisition company, with an extensive portfolio of companies including FAST Speech Therapy (www.FASTSpeechTherapy.com) and TIPPS for Better Choices (www.T4BC.com) as well as an interest in a healthcare/entertainment robotics company.

Mr. Annett can be reached at www.AnnettEnt.com or at 973-704-7587

ABOUT THE NETWORK: Founded in 1992, the IEEE Consultants Network of Northern NJ encourages and promotes the use of independent technical consultants by business and industry.

CNNNJ INVITES YOU TO JOIN THE NETWORK

The IEEE Consultants' Network of Northern NJ invites all engineers engaged in independent practice to join its ranks. For more details on member benefits and on sign-on requirements, please visit our website at (www.TechnologyOnTap.org)

ALL ARE WELCOME! No fees or registration required.

Location: Morris County Library, 30 East Hanover Avenue, Whippany, NJ, [Getting to Morris County Library](#)

Time: 6:30PM to 8:30PM

You don't have to be an IEEE member to attend.

Contact: Robert Walker (973-728-0344),
(r.d.walker@ieee.org) or visit, www.TechnologyOnTap.org.

For updates and Registration: [Click Here](#)

June 15, 2015

IEEE AP/MTT, ED/CAS present: – 3D Surface Reconstruction

Speaker: – Dr. Vincenzo Piuri, Università degli Studi di Milano

Abstract: Applications based on three-dimensional object models are today very common, and can be found in many fields as design, archeology, medicine, and entertainment. A digital 3D model can be obtained, for example, by means of physical object measurements performed by using a 3D scanner. In this approach, an important step of the 3D model building process consists of creating the object's surface representation from a cloud of noisy points sampled on the object itself. This process can be viewed as the estimation of a function from a finite subset of its points. Problems of this kind occur in many branches of applied mathematics, and computer science. Many techniques have been developed to face them, such as interpolation, extrapolation, regression analysis, and curve fitting. In computational intelligence this problem is viewed as a supervised learning problem, where the two-dimensional vector coordinates of the single point is an input instance, while the third coordinate is considered as an output label. The approximation function identifies how to obtain labels from instances. Several effective computational intelligence paradigms have been developed for solving these kinds of problems. For the solution of the function reconstruction problem, neural techniques, generally, show a good trade-off between computational complexity, accuracy and robustness of the solution with respect to other methods. In this context, there are many different paradigms which are able to find the approximation function, e.g., Multi-layer Perceptron Networks, Radial Basis Function (RBF) Networks, and Support Vector Machines (SVM). In general, there is not a single paradigm better than the others, but each one performs differently depending on the application context. This keynote speech is directed to introduce the needs of the 3D surface reconstruction, to briefly overview the techniques for surface reconstruction, to analyze and discuss in detailed the neural techniques suited for addressing this problem, and to present the most recent results of research.

Biography: Dr. Vincenzo Piuri Vincenzo PIURI has received his Ph.D. in computer engineering at Politecnico di Milano, Italy (1989). He has been Associate Professor at Politecnico di Milano, Italy and Visiting Professor at the University of Texas at Austin and at George Mason University, USA. He is Full Professor in computer engineering (since 2000) and has been Director of the Department of Information Technology at the Università degli Studi di Milano, Italy.

His main research interests are: signal and image processing, machine learning, pattern analysis and recognition, theory and industrial applications of neural networks, intelligent measurement systems, industrial applications, fault tolerance, cloud computing, internet-of-things, digital processing architectures, embedded systems, arithmetic architectures, and biometrics. Original results have been published in more than 350 papers in international journals, proceedings of international conferences, books, and book chapters.

He is Fellow of the IEEE, Distinguished Scientist of ACM, and Senior Member of INNS. He is Editor-in-Chief of the IEEE Systems Journal (2013-15), and has been Associate Editor of the IEEE Transactions on Neural Networks and the IEEE Transactions on Instrumentation and Measurement. He is 2015 IEEE Vice President for Technical Activities. He has been IEEE Director and IEEE Delegate for Division X, President of the IEEE Computational Intelligence Society, Vice President for Publications of the IEEE Instrumentation and Measurement Society and the IEEE Systems Council, Vice President for Membership of the IEEE Computational Intelligence Society, and Vice President for Education of the IEEE Biometrics Council.

He received the IEEE Instrumentation and Measurement Society Technical Award (2002) for the contributions to the advancement of theory and practice of computational intelligence in measurement systems and industrial applications, the IEEE Instrumentation and Measurement Society Distinguished Service Award (2008), and the IEEE Computational Intelligence Society Meritorious Service Award (2009). He is Honorary Professor at the Obuda University, Budapest, Hungary (since 2014).

Location: NJIT - ECE 202, 161 Warren Street, Newark, NJ 07102 [Getting to NJIT](#)

Time: 5:30 PM to 7:00 PM

Contact: Ajay Kumar Poddar, (201) 560-3806
(akpoddar@ieee.org), Edip Niver- (973)596-3542
(edip.niver@njit.edu), Durga Misra (dmisra@njit.edu)

For Updates and Registration: [Click Here](#)

June 17, 2015

IEEE SMC present: Ten Questions for Best Practice of Data Science

Speaker: Dr. Qiong Shen

Abstract: Year 2014 saw continued strong demand for Data Scientists or the like. Even though many schools provide systematic educations and trainings on data science, best practices in this discipline are still an evolving art mixed with science in that the nature of using machine learning methods involves best practices that are unique to this discipline. Understanding of problems involved and being able to apply appropriate technologies/methodologies will significantly improve chances of success in daily work. This seminar will discuss best practices in data science by asking and answering

10 typical questions that always emerge at different stages of data science career and individual project.

Biography: Dr. Qiong Shen graduated from NJIT in 2008 with Ph.D. degree in mechatronics - a joint program between the departments of Mechanical Engineering (ME) and Electrical & Computer Engineering (ECE) after successfully completing a National Science Foundation (NSF) awarded multi-disciplinary research project targeting at low-cost fully-automated DNA microarray fabrication. Then he worked on power systems of mission-critical facilities for 7 years and spearheaded data mining on large scale field data. In 2014, Dr. Shen co-founded a data modeling company providing predictive analytics for applications that are based on credit, real estate, and purchase behavior data. Dr. Shen is not only active in industrial areas, but also in academic activities. He is an adjunct professor at the department of ECE of NJIT. He has published 24 journal and conference papers. He also co-owns a U.S. patent and co-authored two books on model-based approaches to traditional engineering subjects. His research interests include Robotics and Automation, Numerical Optimization and Simulation, Machine Learning, and 3D Printing.

Location: NJIT - ECE 202, 161 Warren Street, Newark, NJ 07102 [Getting to NJIT](#)

Time: 1:00 PM to 2:00 PM

Contact: Mengchu Zhou (zhou@njit.edu)

[For Updates and Registration: Click Here](#)

June 17, 2015

IEEE EMC/PSES present: Construction and operation of a reverberation chamber

Speaker: David Larrabee of ESU

Abstract: Topic is the work my students have done in the construction and operation of a reverberation chamber at ESU. I have involved undergraduates in this work and they really enjoy the metal bending and machining; it seems to make the theory go down a little easier. It turns out that the chamber also has some acoustic resonances in the audio as well as the electromagnetic ones. We did an audio of the mode stirring which is kind of fun (I would have to dig that up). I gave a talk to the faculty here at ESU and used the audio, how else do you explain reverberation chambers to english professors.....

Biography: David Larrabee of ESU is a Professor at East Stroudsburg University. Major theory work is the interaction of electromagnetic waves and transmissions lines. Teaches in the physics department where the students have had the junior/senior level Electricity and Magnetism course.

Location: Bell Laboratories, Alcatel-Lucent, Main Building, Room: 6A-106, 600 Mountain Avenue, Murray Hill, NJ 07974, [Getting to Bell Labs](#)

Time: 6:30 PM to 8:00 PM

Contact: Dan Roman (danpses@verizon.net)

[For Updates and Registration: Click Here](#)

June 18, 2015

IEEE AP/MTT, ED/CAS present: LIGHT and LIFE: Applications to Biology and Medicine

Speaker: Prof. Siva Umapathy, Indian Institute of Science, Bangalore, India

Abstract: Lasers have become an essential light source in spectroscopic applications due to their inherent coherence and intensity. These properties enable both time (fs) and spacial (nm) resolutions required to study materials at the nanoscopic to microscopic level and also their dynamics in femtosecond to seconds time scale. In this talk we will present various applications of laser spectroscopy, particularly vibrational spectroscopy, in biology and medicine. In the case of biology and medicine, we would present results of both infrared and Raman microscopic approaches to studying tissues, cell-drug interactions, bacterial classifications, sepsis, muscle disorders and lab-on-chip applications. We demonstrate subjective classification of grade IV glioblastoma brain cancer tissues using infrared microscopy. Our study on effect of drugs on various cancer cell lines resulted in identification of propionylation which may be an indication of cancer cell death. During the lecture we would also present results of new technological applications in classification of bacterial species which are relevant to human diseases. We have also explored sepsis and muscle disorders using model systems, such as, mice and drosophila, respectively. Further, very recently we have built a lab-on-chip system for use with Raman microscopy. We demonstrate the utility in combining surface enhanced Raman with lab-on-chip to study extremely low concentration of biofluids. References: (i) Raman and mid-infrared spectroscopic imaging: applications and advancements, S Umapathy, et.al., Current Science, 2014; (ii) Molecular profiling of sepsis in mice using Fourier Transform Infrared Microspectroscopy, S Umapathy, et. al., J. Biophotonics, 2015; (iii) Raman Spectroscopic Studies on Screening of Myopathies, S Umapathy et.al., Anal. Chem., 2015; (iv) Infrared Spectroscopic Studies to Understand the Effect of Drugs at Molecular Level, S Umapathy, SPIE Proceedings, 2013.

Biography: Prof Siva Umapathy, a J. C. Bose Fellow at the Indian Institute of Science (IISc), Bangalore, is internationally reputed for his considerable contributions in the field of laser spectroscopy, chemistry and biology over the last 30 years. He is a professor in both the department of Instrumentation and Applied Physics and Inorganic and Physical Chemistry. In 2004, he was awarded the Bhatnagar Award, the highest civilian award for scientists in India. Uma is the Chairman of the International Steering Committee of Raman Spectroscopy, member of international committee on time resolved vibrational spectroscopy. He plays key roles in the editorial boards of a number of journals including Spectrochimica Acta A, Applied Spectroscopy, Journal of Raman Spectroscopy, Journal of Biophotonics and Chemical Physics. Before joining IISc, he held positions at the Rutherford Appleton Laboratory and University of York in late 80s. He has been visiting

professor at the University of Tokyo, Imperial College London, University of Groningen and others. Currently he is also Honorary Professor position at the University of Nottingham, United Kingdom.

Email: umapathy@ipc.iisc.ernet.in

Location: NJIT - ECE 202, 161 Warren Street, Newark, NJ 07102 [Getting to NJIT](#)

Time: 4:30 PM to 6:00 PM

Contact: Ajay Kumar Poddar, (201) 560-3806 (akpoddar@ieee.org), Edip Niver- (973)596-3542 (edip.niver@njit.edu), Durga Misra (dmisra@njit.edu)

[For Updates and Registration: Click Here](#)

June 29, 2015

IEEE SMC, CSS present: Operator based modeling, robust nonlinear control and fault detection & isolation

Speaker: Prof. Mingcong Deng Professor, Tokyo University of Agriculture and Technology, Japan

Abstract: In order to address nonlinear behaviors, in this talk, operator based models are introduced, which describe the nonlinear behaviors of the above mentioned actuators. As for the compensation on the nonlinear behaviors, based on the concept of Lipschitz operator and the operator based robust right coprime factorization condition, robust nonlinear control design schemes are proposed to guarantee the robust stability and desired performance of the nonlinear behaviors. For demonstrating the effectiveness, numerical simulations and experiments are shown by using distributed control system (DCS). Further, reliable detection of faults for the above control design scheme with the uncertainties is considered.

Biography: Prof. Mingcong Deng received his PhD in Systems Science from Kumamoto University, Japan, in 1997. From 1997 to 2000, he was with Kumamoto University as an Assistant Professor. From 2000 to 2001, he was with University of Exeter, UK, and then spent one year at the NTT Communication Science Laboratories. Since the end of 2002 to September of 2010, he worked at Okayama University, where he was an Assistant Professor and then an Associate Professor. He is presently a Professor of Tokyo University of Agriculture and Technology, Japan.

Prof. Deng is a member of SICE, ISCIE, IEICE, JSME, IEEJ and the IEEE(SM). He specializes in three complementary areas: Operator based nonlinear fault detection and fault tolerant control system design; System design on thermoelectric conversion elements; Applications on smart material actuators. Prof. Deng has over 300 publications, including 130 journal papers, 9 books (or chapters), in peer reviewed journals including IEEE Transactions, IEEE Press (for books) and other top tier outlets. He serves as a chief editor for International Journal of Advanced Mechatronic Systems, The Global Journal of Technology and Optimization, and associate editors of 6 international journals, including with IEEE Trans. on Automation Science and Engineering. Prof.

Deng is also a co-chair of agricultural robotics and automation technical committee, IEEE Robotics and Automation Society. He was the recipient of 2014 Meritorious Services Award of IEEE SMC Society.

Location: NJIT - ECE 202, 161 Warren Street, Newark, NJ 07102 [Getting to NJIT](#)

Everyone is welcome to attend this meeting.

Time: 2:00PM-3:00PM

Contact: Mengchu Zhou (zhou@njit.edu)

[For Updates and Registration: Click Here](#)

July 8, 2015

IEEE North Jersey Section PACE – Engineers Meet

Abstract: On Wednesday, June 10, 2015 the North Jersey Section Professional Activities Committee will meet for an Open Discussion and Social with Pizza, soda & refreshments.

How many companies have left New Jersey during your career? Do we have any good news? Maybe yes, Maybe No, but it is nice to see old friends. What would IEEE-USA like our PACE members to do? IEEE-USA is concerned about the H-1B issue and so are we.

This meeting is about getting members of the Section together for a light evening of discussion and hospitality. Basically we can hold a brainstorming session to discuss the H-1B issue with future meetings and activities. All are invited. We shall encourage North Jersey Section Ex-Com officers to attend. Attendees will have an opportunity to select Subjects and Speakers for future meetings. Bring your associates, friends and spouses.

Everyone will have an opportunity to express their views about the profession, jobs, and opportunities. We begin with Member introductions. Let's get active and make things happen.

Join the IEEE North New Jersey Section for an evening discussion.

A mid-meeting break will provide pizza and refreshments.

Location: Clifton Memorial Library, 292 Piaget Ave., Clifton, NJ 07011 [Getting to Clifton Memorial Library](#) (Tel. 973 772-5500)

Time: 6:30 PM to 8:45 PM, (second Wednesday of every month).

Contact: Richard F. Tax (201- 664-6954) (rtax@verizon.net)

PACE HELP! To All: We need guest speakers and subjects for meetings.

For Updates and Registration: Call (201 664-6954 or send to rtax@AEA.org)

July 15, 2015

IEEE IT, COMSOC, VTS present: D2D: Research Trends and Future Perspectives

Speaker: Prof. Nei Kato

Abstract: Driven by the proliferous development of media-hungry handheld devices and online applications, there has been an unprecedented consumer demand for faster and cheaper mobile broadband access. Given the impossibility of meeting this demand by simply adding spectrum, researchers around the globe are bending over backwards to squeeze out more data bits from the limited available frequency resources. Among various efforts towards this end, device-to-device (D2D) communications, which allows mobile UEs in proximity to communicate directly via licensed/unlicensed band with/without the support from the operator, has gained intensive research interests from academia, industry, and standard bodies. In this talk, I will showcase the potentials of D2D communications to improve system capacity, enhance spectral efficiency, increase coverage and connectivity, and identify the new challenges to co-existence and network management. In particular, I will introduce the applications of D2D for traffic relaying in disaster relief, and for load balancing in futuristic wireless networks. Finally, new research directions will be delineated.

Biography: Nei Kato received his Bachelor Degree from Polytechnic University, Japan, in 1986, and M.S. and Ph.D. Degrees in information engineering from Tohoku University, in 1988 and 1991, respectively. He joined Computer Center of Tohoku University as an assistant professor in 1991, and was promoted to full professor at the Graduate School of Information Sciences, Tohoku University, in 2003. He became a Strategic Adviser to the President of Tohoku University in 2013. He has been engaged in research on computer networking, wireless mobile communications, satellite communications, ad hoc & sensor & mesh networks, smart grid, and pattern recognition. He has published more than 300 papers in peer-reviewed journals and conference proceedings. He currently serves as a Member-at-Large on the Board of Governors, IEEE Communications Society (ComSoc), the Chair of ComSoc Ad Hoc & Sensor Networks Technical Committee, the Chair of IEEE ComSoc Sendai Chapter, the Editor-in-Chief of IEEE Network Magazine (from 1st July, 2015), the Associate Editor-in-Chief of IEEE Internet of Things Journal, and an Area Editor of IEEE Transactions on

Vehicular Technology. Nei Kato is a Distinguished Lecturer of IEEE Communications Society and Vehicular Technology Society. He is a fellow of IEEE and IEICE.

Location: NJIT - ECE 202, 161 Warren Street, Newark, NJ 07102 [Getting to NJIT](#)

Time: 2:30 PM to 3:30 PM

Contact: Nirwan Ansari (nirwan.ansari@njit.edu) or Mani Iyer (miyer108@gmail.com)

[For Updates and Registration: Click Here](#)

August 5, 2015

IEEE North Jersey Section EXCOM Meeting – Murray Hill, NJ

Meeting Agenda: This executive committee (EXCOM) meeting of the IEEE North Jersey Section will be held at Bell Laboratories, Alcatel-Lucent, in Murray Hill, NJ. The meeting will take place in Room 6A-106, which is located at the right side of the main entrance behind the Bell Labs Showcase exhibition area. It is not necessary to sign in to access this area.

There will be a get-together with a buffet starting at 6 pm.

The meeting starts at 7 pm EST and typically ends at 8:45 pm. The meeting is meant to discuss and coordinate the section's activities and new initiatives.

Everyone is welcome to attend this meeting.

Please register in advance for this meeting using VTOOLS to provide the meeting organizers an accurate head count. You can change/cancel the registration if your plans change.

For more information, please contact Adriaan van Wijngaarden (avw@ieee.org).

Location: Bell Laboratories, Alcatel-Lucent, Main Building, Room: 6A-106, 600 Mountain Avenue, Murray Hill, NJ 07974, [Getting to Bell Labs](#)

Time: 06:00 PM to 08:45 PM

Contact: Adriaan van Wijngaarden (avw@ieee.org) or Kai T. Chen (k.t.chen@ieee.org)

[For Updates and Registration: Click Here](#)



THE INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS, INC.

IEEE

NORTH JERSEY SECTION

MTT-Society and AP-Society Joint Chapter

PRESENTS

30th ANNUAL SYMPOSIUM AND MINI-SHOW

FOCUS:

**SELECTED TOPICS IN RF AND MICROWAVE TECHNOLOGIES FOR
COMMERCIAL AND MILITARY APPLICATIONS**

DATE: THURSDAY OCTOBER 1, 2015

PLACE: Hanover Manor, 16 Eagle Rock Ave., E. Hanover, NJ 07936. Ph#973-992-7425

SCHEDULE OF EVENTS

9:00 AM TO 4:30 PM

TECHNICAL SESSIONS

**10 –12 LECTURES FEATURING SPEAKERS FROM LEADING
COMPANIES, WITH EMPHASIS ON MILITARY ELECTRONICS,
WIRELESS TECHNOLOGIES AND MICROWAVE COMMUNICATIONS.**

**MINI SHOW FEATURING LATEST PRODUCTS
(APPX. 30-40 EXHIBITORS)**

(COMPLIMENTARY LUNCH SERVED)

Details of the schedule and speakers and the topics will be posted on the IEEE North Jersey Section Home page
<http://www.ieee.org/go/njsection> by September 2015.

Registration: https://meetings.vtools.ieee.org/meeting_view/list_meeting/26953

For further information contact:

CHAIR-EXHIBITION: KIRIT DIXIT (201-669-7599), kdixit@ieee.org

CHAIR – TECHNICAL PROGRAMS: GEORGE KANNELL(973-437-9990), gkk@lgsinnovations.com

PUBLICITY: ARTHUR GREENBERG (gardner1@optonline.net)

EVENT/ LOCATION CO-ORDINATOR: KEN OEXLE (973-386-1156) k.oexle@verizon.net

CO-CHAIR– TECHNICAL PROGRAMS : HAR DAYAL , dayalhar@gmail.com

APS/MTTS CHAPTER CHAIR : Dr. AJAY PODDAR , akpoddar@synergymwave.com

APS/MTTS CHAPTER Vice -CHAIR: Dr. EDIP NIVER , edip.niver@njit.edu

SECTION CHAIR: Adriaan J. de Lind van Wijngaarden, alw@research.bell-labs.com

THERE IS NO CHARGE TO ATTEND THE SYMPOSIUM OR SHOW.

IEEE North Jersey Section Course

Big Data Market Research in Seven Saturdays

Saturdays, July 11 through August 22, 2015

Seven weekly classes (July 11, 18, 25, August 1, 8, 15, 22, 2015)

New Jersey Institute of Technology (Checks should not be mailed to this address)

IEEE North Jersey Section thanks New Jersey Institute Technology for sponsoring this course

The North Jersey Section IEEE is offering "Big Data Market Research" course. Careerbuilder.com lists 7252 Marketing, 4192 Data, and 1736 Analyst positions in the New York tri-state area daily! As an engineer, you never did marketing. Getting the MBA takes two years. This is a better alternative to learn marketing and how you work as Data Analyst or Market Researcher.

This course deals with the collection, evaluation and analysis of market-related big data. Topics are: market research industry, problem definition, research process, focus group, secondary database, quantitative research, questionnaire design, sampling techniques, statistical testing, bivariate and multivariate correlation, communicating results and management reports. Using IBM SPSS software, you will perform detailed big data analysis and get jobs in healthcare, finance, social sciences, and marketing research firms, at private or public sectors, or in government.

You will receive the IEEE completion certificate. You may work as a market researcher in any organization that needs your quantitative skills.

Instructor: Donald Hsu, Ph.D., has been a corporate manager for 20+ years and is an experienced trainer. Since 2009, he has trained 750 people in Big Data, Data Warehouse, Management, Global Marketing, and Marketing Research courses in seven organizations. He is the top rank 1% all star- most view profile on LinkedIn, with 5300+ partners and clients in 75 countries. Past attendees work at AT&T, Goldman Sachs, IBM, GE, Microsoft, Morgan Stanley, and Verizon.

TOPICS

1. Describe the big data market research industry, problems and research process
2. Understand the importance of primary data collection, secondary database, and survey
3. Define quantitative research, measurement technique and sampling methods
4. Explain the questionnaire design, data processing and statistical testing
5. Build the knowledge of bivariate regression and multivariate data analysis
6. Communicate results, manage ethical issues, and prepare reports
7. Employ IBM SPSS software for frequency analysis, ANOVA, T-test and others
8. Review real-world marketing research using Harvard Business School cases
9. Present Final Project in Big Data Market Research

WHERE: New Jersey Institute Technology, Newark, New Jersey

WHEN: 7 Saturdays, (July 11, 18, 25, August 1, 8, 15, 22, 2015) 9:00 am to 12:00 pm

COST: IEEE (& affiliate) members \$500; Non-IEEE members \$550.

CONTACT: Donald Hsu, yanyou@hotmail.com

REGISTRATION: **Big Data Market Research in Seven Wednesdays**

Please mail the completed registration form with a check (**Checks payable to "North Jersey Section IEEE"**) to

Dr. Donald Hsu, Chair Education Committee, IEEE North Jersey Section, P. O. Box 2093, Fort Lee, New Jersey 07024.

Name: _____ Email address: _____

☐ Non-member ☐ IEEE Member Member #: _____ Member of _____ technical society

Employer: _____

Employer Address: _____

Home address: _____

Business (day) telephone #: _____ Home telephone #: _____

Please enclose required fee payable to: **North Jersey Section IEEE**

☐ I wish to receive the IEEE Completion Certificate Signature: _____

IEEE North Jersey Section Course

C#.NET Programming in Seven Saturdays

Saturdays, July 11 through August 22, 2015

Seven weekly classes (July 11, 18, 25, August 1, 8, 15, 22, 2015)

New Jersey Institute of Technology (Checks should not be mailed to this address)

IEEE North Jersey Section thanks New Jersey Institute Technology for sponsoring this course

The IEEE North Jersey Section is offering a course entitled "C# .NET Programming". Since 2009, C# .NET has generated significant headway in Fortune 1000 enterprise development systems. Dice.com lists 800+ C# .NET jobs (up from 620 last year) in the New York tri-state area daily! This course will cover the fundamentals of C# language, the .NET framework, window and web-based applications, ADO.NET, ASP.NET, and XML. It will be useful for anyone to develop applications based upon these tools.

You will receive the IEEE Certificate of Completion when you finish the course. Microsoft Corp. has MCAD and MCS D certifications. You may wish to get certified by taking the necessary Microsoft exams with the knowledge gained from this course.

Past attendees got jobs at AT&T, Bank America, Goldman Sachs, IBM, Microsoft, Morgan Stanley, Verizon, and other Fortune 500 firms

Instructor: Donald Hsu, PhD., has been a corporate manager for 20 years and is an experienced trainer. Since 2009, he has trained 700+ people in Android, C++, Java, Oracle, WebLogic, XML, and C# .NET in 8 different organizations.

TOPICS

1. Compare the enterprise development tools using Java to C# .NET
2. Define Visual Studio .NET Version 2008 to latest
3. Identify C# syntax, data type, control structures and common language runtime
4. Distinguish methods, arrays, object-oriented programming
5. Build graphical user interface, multithreading, files and streams
6. Explain the benefit of using extensible markup language (XML)
7. Select database, SQL server, and ADO .NET
8. Choose ASP .NET, web forms, web services, advanced topics
9. Present student Projects

WHERE: New Jersey Institute Technology, Newark, New Jersey

WHEN: 7 Saturdays, (July 11, 18, 25, August 1, 8, 15, 22, 2015) 12:30 pm to 3:30 pm

COST: IEEE (& affiliate) members \$500; Non-IEEE members \$550.

CONTACT: Donald Hsu, yanyou@hotmail.com,

REGISTRATION: C#.NET Programming in Seven Saturdays

Please mail the completed registration form with a check (Checks payable to "North Jersey Section IEEE") to

Dr. Donald Hsu, Chair Education Committee, IEEE North Jersey Section, P. O. Box 2093, Fort Lee, New Jersey 07024.

Name: _____ Email address _____

☐ Non-member

☐ IEEE Member Member #: _____ Member of _____ technical society

Employer: _____

Employer Address: _____

Home address: _____

Business (day) telephone #: _____ Home telephone #: _____

Please enclose required fee payable to: **North Jersey Section IEEE**

☐ I wish to receive the IEEE Completion Certificate

Signature: _____

2015 IEEE North Jersey Section Volunteers

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avw@ieee.org

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akpoddar@synergymwave.com

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mondal@fdu.edu

Secretary – Kai T. Chen
k.t.chen@ieee.org

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