



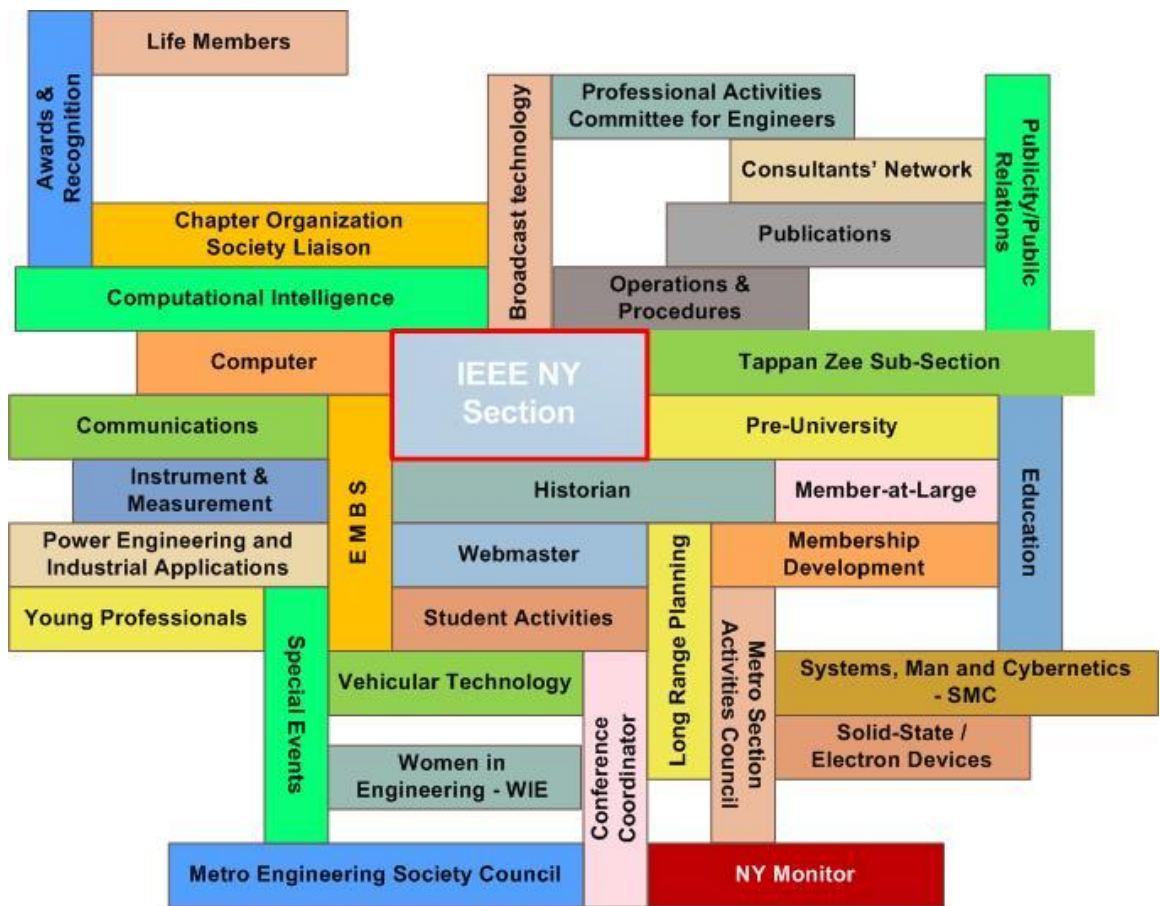
New York Monitor

Advancing Technology for Humanity

A PUBLICATION OF THE IEEE NEW YORK SECTION

Published monthly except in July and August

MARCH, 2017, VOL. 64, NO. 3



Many faces of the IEEE New York Section

Principal Officers 2017

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Vice chair (Section Activities): Charles Rubenstein

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Editor: Amitava Dutta-Roy

**We strive to advance technology
for the benefit of humanity**

Currently, the New York Section of IEEE comprises of the
following active Chapters of the IEEE Societies:

- Broadcast Technology Society
- Computational Intelligence Society
- Computer Society
- Communications Society

- Technology Management Society
- Engineering in Medicine and Biology Society
- Instrumentation and Measurement Society
- Power and Energy Society
- Industrial Applications Society
- Solid State Circuits/Electron Devices Societies
- Systems, Man and Cybernetics Society
- Vehicular Technology Society

AND

The following Affinity Groups as defined by IEEE

- Consultants' Network
- Life Members
- Women in Engineering
- Young Professionals

FROM THE KEYBOARD OF THE EDITOR

Once more the posting of this edition of this edition has been delayed. We have been waiting for reports on our activities. We do understand that the authors of such reports are volunteers and each of them has a daytime employment for their sustenance. Often that keeps them busy and drains the physical energy required for writing reports. Thus, we can only request them to write. Beyond such requests we have no control over the availability of such reports. This and the next issue of the NY Monitor will share the burden of offering information



(reports and, whenever possible, photographs) on our past activities. Inside you will find photographs taken during the Region 1 Students' Congress, University of Buffalo, NY (SUNY), 7-9 April, 2017. We thank Bala Prasanna, the R 1 Treasurer for giving us the permission to post them. The other set of photographs were taken at the SMC presentation of Net Neutrality by Prof Vishal Misra (Columbia University, NYC). We hope to post a report on this presentation in our next edition. We hope that you will enjoy reading this edition of the NY Monitor.

Join us in networking with your peers, IEEE members, old hands and newer, and to honor this year's IEEE fellows and awardees of the New York section

AT

Award Dance Dinner

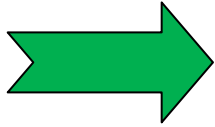
*Silton Midtown Hotel and Towers 1335 Avenue of the Americas (between 53rd and 54th Streets),
Manhattan, New York*

Saturday, 6 May, 2017, 6pm – 11pm

Hot and cold hors d'oeuvres, cocktails of your choice, and succulent filet mignon, delicious salmon or tasty vegetarian dishes

Live dance music until 11pm

RSVP form at the end of this newsletter



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QUICK DATE CHECKS FOR EVENTS

Presumed dates for the 2017 Executive Committee meetings at IEEE NY Section (unless otherwise notified in advance, always held on the second Wednesday of the month)

~~11~~ January

~~8~~ February

~~8~~ March

12 April

No meeting in May due to

Award Dinner Dance (6 May)

14 June

No meetings during the months of July and August

13 September

11 October

8 November

13 December

Unless otherwise notified, all ExComm meetings are scheduled for 12:30 pm at the ConEd Building, 4 Irving Place, New York. All members of the New York Section are invited to participate in the ExComm meetings. However, for reasons of security controlled by ConEd, the owner of the vanue, all members desirous of attending any ExComm meeting must notify the Section chair. Thank you for your understanding

TECHNICAL MEETINGS OF OUR INTEREST IN NYC

19 April, 2017, Wednesday: 6.30pm IEEE Tappan Zee Subsection Joint Meeting with Westchester Chapters of ASM& SME. **Speech Recognition, Full Speaker Diarization, Bird Song Recognition and More** by Dr. Homayoon Beigi, President, Recognition Technologies, Inc., South Salem, NY. **Location:** Room 1S-F53 (entrance floor) at the New York Medical College Annex Building on Rt. 9A, 19 Skyline Drive, Hawthorne, NY 10532. Contact: Robert Pellegrino at <Robert.m.pellegrino@gmail.com>

25 April, 2017, Tuesday: 5pm (refreshment and networking) & 5.30pm-7pm (presentation): IEEE Power & Energy Society, Industrial Applications Society, and Life Members' Affinity Group: **Surge Protective Devices** by Liz Knolmayer, Surge Protection Product Specialist, ASCO Power Technologies **Location:** Coned Building, 4 Irving Place (X with E 14 Street, one block east of Union Square), New York. (Please see flier at the end and contact Arnold Wong <wongar@coned.com>

28 April, 2017, Friday, 6pm – 9pm: IEEE ComSoc NYC Chapter Workshop on IIoT. **HydroMet Sensing: Introducing the next Generation of Sensor-to-Data Management Systems using Open-Source Technologies and Standards** by Dr Paul Celicourt. **Location:** CapitalOne Headquarters, 853, Broadway, New York (near Union Square). For more information please contact Dr Yun Ye at yye@lagcc.cuny.edu.

2 May, 2017, Tuesday, 6pm for 6.30pm: German Center for Research and Innovation: panel discussion on Building the City of Tomorrow: Smart Cities and Urban Development, German House, 871 United Nations Plaza (First Av. At 49th Street) IEEE members welcome. Please see the flier at the end of the newsletter. RSVP required.

6 May, 2017, Saturday: 6pm at Midtown Hilton Hotel, Avenue of the Americas (x53rd Street), New York: Annual Award Dance & Dinner (ADD) of the New York Section where the new IEEE Fellows and awardees will be honored. Please see the invitation letter and the RSVP form toward the end of this newsletter p. 17). We look forward to your company (and of your guests) at the annual event of camaraderie.

10 May 2017, Tuesday through 3 November ,2017, Friday: **“Drones: Is the Sky the Limit?” exhibition at the Intrepid Sea, Air & Space Museum, New York** Please see our insert below. More information will be available in the next edition of the NY Monitor.

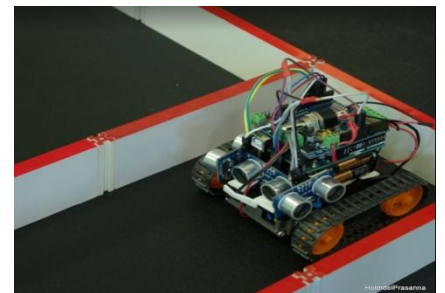
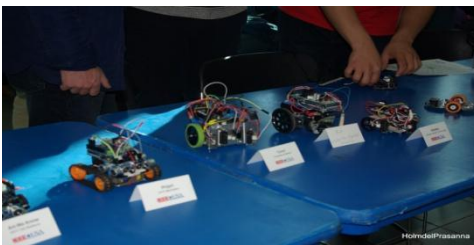
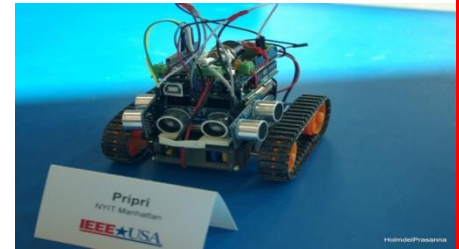
12 May, 2017, Friday: 6pm-8pm, a presentation of the IEEE Systems, Man and Cybernetics Society, and Education Society: From Machine Learning to Deep Learning: How Artificial Intelligence is Changing the World by Dr. Rensheng Wang New York, Long Island University's Long Island Campus, Room HS 119. (Please see flier at the end and contact Ping-Tsai Chung: pchung@liu.edu). Directions: <http://www.liu.edu/Brooklyn/About/Visit/Directions.aspx>



REGION 1 STUDENTS' CONFERENCE, UNIVERSITY OF BUFFALO, NY (SUNY), 7-9 APRIL, 2017

This year too, the Students' Conference sponsored by IEEE Region 1 was a great success. It was hosted by the University of Buffalo (SUNY), NY. Apart from the formal meetings the fun (and educative) part was the Annual Micromouse Competition designed and coordinated by Soon Wan. Bala Prasanna, the R 1 treasurer kept his

camera ready to snap some memorable moments of the completion. With his permission we reproduce some of them here to give the reader a taste of others that can be discovered by logging on to <https://goo.gl/photos/trgYDDu5ixrHLPpM9> Thank you Bala



Scenes at the Micromouse competition,, IEEE Region 1 Students' Conference, University of Buffalo (SUNY), NY 7-9 April, 2017. Dr. Soon Wan, the prime mover of the competition and its coordinator is in the middle photo. (Photo courtesy: Bala Prasanna)

Join us in networking with your peers, IEEE members, old hands and newer, and to honor this year's IEEE Fellows and awardees of the New York section

AT

Award Dance Dinner

*Silton Midtown Hotel and Towers 1335 Avenue of the Americas (between 53rd and 54th Streets),
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RSVP form at the end of this newsletter

A SMC NY CHAPTER PRESENTATION ON NET NEUTRALITY BY PROF VISHAL MISRA OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCE DEPARTMENT OF COLUMBIA UNIVERSITY, NEW YORK AT LONG ISLAND UNIVERSITY, BROOKLYN CAMPUS.

The New York chapter of the Systems, Man and Cybernetics Society of the IEEE is one of the two groups that offer regular presentations almost every month of the year. (For the sake of completeness, I should mention that the other chapters that offer regular *joint* presentations are Power End Energy Society, Industrial Applications

The Long Island University (LIU)'s IEEE Students Branch and Computer Society are noticeably active in promoting electrical engineering and computer science and the membership of the IEEE. They have produced some marvelous video clips to draw the attention of the attendees to the advance of technology and its benefits to the humanity. This is the best such promotional effort I have seen in any IEEE presentation.

The evening's proceedings started with a session of networking that was accompanied by pizza slices, cookies, coffee and sodas. The projection of the video clips followed. Prof Ping-Tsai Chung gave a welcome to all attendees and introduced Prof Vishal Misra, the speaker. Misra is a professor Electrical Engineering and Computer Science at Columbia University. In 2011, after raising \$24 million from top-tier venture capital firms and hiring a professional executive team, he cofounded Infinio, a market leader in storage acceleration. Later, Misra transitioned to the role of Chief Scientist for the company. Prof. Misra is also an avid cricket fan and one of the founders of Cricinfo. He has received an NSF CAREER Award, a DoE CAREER Award, and Google and IBM Faculty Awards. He is an IEEE Fellow, an Associate Editor of Journal of the ACM and Chair, ACM SIGMETRICS, special interest group on performance evaluation.

The title of Prof Misra's lecture that evening was Net Neutrality. The title is coincidentally most appropriate given the fact that neutrality of the internet is currently embroiled in a political tug-of-war. The new chairman of the FCC wishes to reverse the net neutrality that we were getting used to. The abstract of Misra's talk discusses the relevant issues.

Society <PES/IAS> and the Life Members' Affinity Group <LMAG>. Historically, these chapters have always offered joint presentations. The topics selected have been such that they satisfy the tastes of our membership that is heterogeneous in nature; most of the Life Members were or still are active in the areas related to power engineering.

For the abstract of his talk Misra states: "The issue of Network Neutrality has ignited considerable public debate recently. While the term and much of the discussion originated in the legal community, we started looking at it from an engineering and networking perspective a few years ago. We employed the lens of cooperative game theory and a careful modeling of the Internet including the topology, peering relationships and protocols used on the Internet. Our primary conclusion is that Network Neutrality should be expressed in terms of how you treat competition, not in how you treat packets and we proposed a definition of Network Neutrality that expresses that. We present some of our results including our prediction back in 2008 of a rise in paid peering (last year Netflix signed paid peering arrangements with all 4 of the top broadband providers in the US), the inadequacies of the Network Neutrality regulation in the US and the recent regulations in India, where the regulations are consistent with our definition of Network Neutrality." For Prof Misra's slides please visit <https://goo.gl/vZEgFq> ;for photos taken during the lecture please see: <https://drive.google.com/drive/u/o/folders/OB-jrTb2uehGzYmNPVXVCWnFpN28>

Prof Misra, in his talk, extensively cited the concepts of the earlier work on economic theories, especially that on negotiation. In this context, the earliest work was done by Lloyd Shapley, a Nobel laureate in economics who, in 1953, laid the mathematical foundation of the practice of negotiation. The speaker said that until a couple of years ago engineers thought of net neutrality only in terms of bits per second that criss crossed the internet. The question was: if the tariff was to be uniform for all providers and clients would be uniform or tiered depending on the mass of bits a content provider

generated? However, this became, as Misra explained, an issue that would consider not only the generation of bits by the content providers' hardware but would also involve economic considerations. Misra concluded his talk by hinting at a new definition of net neutrality.

It was interesting for me, as an old guard, to see the interplay of different disciplines, in this instance economics and networking. We are happy to see that principles of electrical engineering, economics, biology and medicine influence each other. The earliest attempt in this direction, as far as I know, was made by Norbert Wiener, a professor at MIT, Cambridge, Mass. He found similarities between electrical circuits and nervous systems of animals and human beings. If you are curious you can look up: *Cybernetics: Or Control and Communication in the Animal and the Machine*. Paris, (Hermann & Cie) & Camb. Mass. (MIT Press) ISBN 978-0-262-73009-9; 1948, 2nd revised ed. 1961. According to Wikipedia : it is the first public usage of the term "cybernetics" to refer to self-regulating mechanisms. The book laid the theoretical foundation for servomechanisms (whether electrical, mechanical or hydraulic), automatic navigation, analog

computing, artificial intelligence, neuroscience, and reliable communications.

It might also be worth noting that it was an British electrical engineer who, using hydraulic pumps and plumbing, built the first analog computer to simulate the economy of Britain and predict the economic future of the country. The computer was later dubbed named MONIAC (Monetary National Income Analog Computer) and was housed inside the London School of Economics (LSE). See:

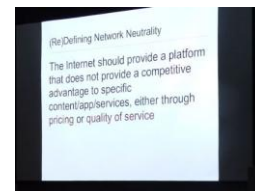
<http://www.marcusschuetz.org/blog/2013/10/10/phillips-economic-moniac-hydraulic-computer> and <http://www.americanscientist.org/issues/pub/everything-is-under-control>. There was also a tome written on the machine by Prof Arnold Tustin, then professor and head of the department of Imperial College, London: "Tustin, Arnold. 1953. The Mechanism of Economic Systems: An Approach to the Problem of Economic Stabilization from the Point of View of Control-System Engineering. Cambridge, Mass., Harvard University Press." (Disclaimer: I studied under Prof Tustin and had the privilege of having a stint on the MONIAC, a version of which is now on exhibition at Science Museum, London.)



Prof Vishal Misra



A well attended lecture



In the quest of a new definition of net neutrality



Prof Misra receiving a certificate as a Distinguish Lecturer from Prof Ping-Tsai Chung



All who attended the Distinguished Lecture of Prof Vishal Misra of Columbia University



Those who inspire Misra

**IEEE Tappan Zee Subsection Joint Meeting with Westchester Chapters of ASME & SME
Presents**

**Speech Recognition, Full Speaker Diarization,
Bird Song Recognition and More**

Dr. Homayoon Beigi, President
Recognition Technologies, Inc., South Salem, NY

Tuesday April 19, 2017 at 6:30 PM

All are invited – Please Post

Abstract: The latest achievements in speech recognition, speaker recognition in, and event detection using deep learning will be discussed, and other techniques, designed and implemented over more than two and a half decades. A system will be demonstrated which takes any media and splits it into segments, labeling each segment with the corresponding speaker. It also transcribes what was said in the media, providing timestamps for each segment. The system is also demonstrated to listen to the songs of birds and to identify their species and subspecies. It is also shown to be used to transcribe the commands in an airplane cockpit, etc. The robustness of the system with respect to echo, applause, and other noises is demonstrated and discussed.

Bio: Homayoon Beigi earned his BS, MS, and PhD from Columbia University in 1984, 1985 and 1990 respectively. The author of the first and only comprehensive textbook on Speaker Recognition, for three decades, he has been involved in research and development in Biometrics, Pattern Recognition and Internet-Commerce. He has developed the award-winning RecoMadeEasy® Speaker Recognition and the multiple-award winning, CommerceMadeEasy® software. He has been an Adjunct Professor since 1995, teaching graduate level Speaker, Speech, Handwriting and Applied Signal Recognition, as well as Control Systems courses at the CS, ME, and EE departments of Columbia University. He was a Research Staff Member at the IBM T.J. Watson Research Center from 1991 to 2001, working on Speaker Recognition, ASR, LM, Search, Handwriting Recognition, Control, and NN Learning. He developed the SAFE Audio ANSI standard and was an active liaison in the US delegation of the ISO/SC37-JTC1-WG3 and the VoiceXML Forum on Speaker Biometrics. His other research includes Structural Health Prognosis, Image Compression, Kinematics, Financial Optimization, and Zero-Gravity Fluid Dynamics. His "Fundamentals of Speaker Recognition" has been downloaded by more than 42,000 times. His is the recipient of two IEEE best paper awards and 10 issued patents and over 70 peer-reviewed publications. He has been an Associate Editor of the AutoSoft Journal, Editor of the BISC Handwriting Recognition, Senior Member of IEEE, on Advisory Board of IEEE Spectrum, and reviewer for the Pattern Recognition Journal, IEEE PAMI, and IEEE Transactions on NN, IET Signal Processing Journal, the International Journal of Control, AIAA Journal, ICASSP, Interspeech, and more.

Location: Seminar will be held in **Room 1S-F53** (entrance floor) at the New York Medical College **Annex Building on Rt. 9A, 19 Skyline Drive**, Hawthorne, NY 10532. **Directions: From Route 9A North** – Make right turn on to the south end of Skyline Dr. At the sign for 19 Skyline Dr. turn right and park **behind** the large trapezoidal building. Enter the **back** center of the building at the base of the large blue pole at the back. Security staff at the entrance will let you in. If there is no Security Guard at desk push intercom button in entrance hallway to talk to Security.

Registration: Required and requested by close of business on Tuesday, April 19, 2017 at:
<https://events.vtools.ieee.org/m/45049> See Tappan Zee Subsection website event page at
http://www.ewh.ieee.org/r1/new_york/tz/ for more details.

Refreshments: Refreshments will be offered at 6:30 PM, presentation starts at 7:00 PM.

Seminar Coordinator: Robert M. Pellegrino, Chair, IEEE Tappan Zee Subsection



POWER & ENERGY SOCIETY
 INDUSTRY APPLICATIONS SOCIETY
 LIFE MEMBERS AFFINITY GROUP
 NEW YORK SECTION



You are invited to a meeting of the PES & IAS NY Chapter and the NY LMAG on

Surge Protective Devices

Tuesday, April 25th, 2017

THE PRESENTATION:

This presentation discusses current surge protective device standards and best practices. Although NYC currently recognizes the 2008 National Electrical Code (NEC), there have been several additions through 2017 to the National Electrical Code which will eventually be adopted by NYC. The purpose of these additions was to prevent damage to emergency power controls and critical electronic loads. The discussion will include: an overview of electrical surges, how SPDs operate, surge cause and effects, IEEE recommended practices, NEC standard and relevant updates regarding SPDs, what to look for during the submittal stage regarding SPDs; and lastly, factors to consider when using internal (product integrated) versus external surge protective devices.

THE SPEAKER: Liz Knolmayer, Surge Protection Product Specialist, ASCO Power Technologies.



Liz Knolmayer joined ASCO Power Technologies in 2014 where she is the North East regional product specialist for surge protective devices. Previously, Liz was at Technical Group Services where she focused on the promotion of high efficiency electrical products for the construction market. Liz currently sits on the board of the NY chapter of the Association of Facility Engineers and is also a member of IEEE NJ.

ALL ARE INVITED – PLEASE POST

RSVP: <https://meetings.vtools.ieee.org/m/44886>

Chair Programs: Arnold Wong

wongar@coned.com or (212) 460-4189

Chair Technical Committee: Sukumar Alampur

salampur100@hotmail.com or (917) 522-2844

FOR SECURITY REASONS: NO WALK-INS!

When: 5:00 pm — Starts-Refreshments & Program

7:00 pm — Program Ends

Where: Con Edison

The Annex

4 Irving Place, New York, NY 10003

Nearest Subway: 14th St/Union Sq.

This program will be awarded IEEE Continuing Education Units (Fee Required)

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.



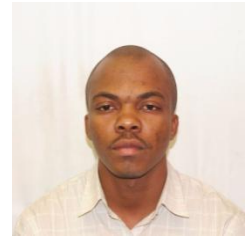
IEEE ComSoc NYC Chapter Workshop on IIoT

<http://ny.chapters.comsoc.org/>

Time: 6-9pm, April 28, 2017

Location: CapitalOne Headquarter Office (Union Square)

853 Broadway New York, NY 10003



Title: HydroMet Sensing: Introducing the next Generation of Sensor-to-Data Management Systems using Open-Source Technologies and Standards

Abstract

In situ monitoring remains the only way of acquiring accurate, reliable, efficient, cost-effective high-frequency and long-term environmental data. Current in situ monitoring systems often overlook the critically important inclusion of a standard data management and publication system. Therefore, fully streamlining current commercially-available environmental monitoring systems adopting a data-from-sensor to storage-and-proper-annotation approach is not only long and arduous, but also pervaded with break-downs and omissions.

This talk will introduce an automated Sensor-to-Data Management System (SDMS) prototype using open source software and hardware technologies and established sensors and observations standards. The system comprises a complete sensor-to-data-dissemination chain of software applications developed using the Python programming language. In addition, it contains a compact custom-made datalogger using the C.H.I.P microcomputer to support the software applications used in field data acquisition. The system, thus, is capable of handling the aspects of data collection, transmission, management and publication as well as network organization automatically. The developed system has been tested in both indoor and outdoor environments and it is effective in not only reducing field data acquisition workload, but also in laying the foundation of cost affordability.

Biography

Paul Celicourt received a Bachelor's degree in electro-mechanical engineering from the Faculté des Sciences of the Université d'Etat d'Haiti (UEH) in 2009 where he had served as a Teaching Assistant of Physics for 2 years (2008-2010). In 2010, he was awarded a Fellowship by the Research Foundation of the City University of New York (RFCUNY) and the Faculté des Sciences (UEH) to pursue a Master's degree in "Sustainability in the Urban Environment" at The City College of New York (CCNY) which he completed in September 2011. Mr. Celicourt graduated in December 2016 with a PhD in Hydroinformatics at the City College of New York. In this capacity, he had conducted field works, including bathymetric survey, to monitor water resources in the Lakes Azuei and Enriquillo watersheds in Haiti and Dominican Republic. He had contributed his software development skills to a number of NSF-funded research projects. Particularly, He contributed to the design and implementation of an open-source standard-compliant software system named SENSOR-DX that implements automated environmental data quality control led by Prof. Thomas Dietterich and the "National Energy-Water System Assessment Framework (NEWS)" led by Prof. Charles Vorosmarty. He is a manuscript reviewer for IEEE Software Magazine, the Journal of Hydroinformatics, the International Journal of Advanced Computer Science and Applications and the IWA Open Water Journal.



The German Center for Research and Innovation (GCRI) and the German Federal Ministry of Education and Research (BMBF) with its 'Building the City of Tomorrow' campaign cordially invite you to a scientific networking event on:

Smart Cities & Urban Development

**Tuesday, May 2, 2017
6:30 p.m. – 8:30 p.m.**

Keynote by

Erwin Rezelman
[ui!] Urban Integrated Inc.

Project Pitches by

Dr. Stephan Bartke
Helmholtz Center for Environmental Research (UFZ)

Prof. Ursula Eicker
Stuttgart University of Applied Sciences (HFT)

Daniel Hiller
Fraunhofer Institute for High-Speed Dynamics (EMI)

Marcus Jeutner
TU Berlin, Institute of Urban and Regional Planning (ISR)

Alexander Sohr
German Aerospace Center

Mirko Goletz
German Aerospace Center

German House, 871 United Nations Plaza (First Ave. at 49th Street), New York, NY

RSVP [here](#) by April 27. Registration is required to attend.

For an overview of the event program please [click here](#).

THE NEW YORK SECTION'S 2017 AWARDS DINNER DANCE

The 2017 IEEE NY Section Awards Dinner Dance honoring the Section's Awardees
will be held on Saturday evening, May 6, 2017

This year, once again, our Annual Awards Dinner Dance (black tie optional) will be held in the beautiful Mercury Ballroom, located on the third level of the New York Hilton Midtown Hotel, 1335 Avenue of the Americas (between 53rd and 54th Streets). This year's awardees include individuals from MTA's New York City Transit and individuals upgraded to the grade of Fellow in the IEEE - three from IBM, one from New York University, and two from Columbia University.

The Dinner Dance will begin at 6:00 pm with hot and cold hors d'oeuvres and cocktails in the Rotunda and Mezzanine area on the third floor. Here we will have a chance to relax, get acquainted, and reacquainted. The dinner, a choice of either a succulent filet mignon, delicious salmon, or vegetarian entrée will begin at 7:00 pm. Each entrée will be accompanied by a soup, salad, and dessert course. The presentation of the awards will take place after dinner and dance music will be provided between dinner and after the presentation of the awards, until 11:00 pm.

While valet parking is available at the hotel, there is no discount from the hotel's standard parking rate. Additionally, the Hilton was unable to provide a discounted room rate for this event; so, its standard room rates apply.

Tickets for the affair may be obtained by completing the reservation form below and forwarding it to Mr. Horn at the address listed below before April 10, 2017. The NY Section is offering a free 1/2 page advertisement in its monthly publication - The Monitor - for supporters purchasing a full-price table of ten tickets at \$2,750. Individual tickets are also available at \$275 for non-IEEE members. A special non-transferrable rate of \$150 for each ticket is available to IEEE members in good standing. *Note that this special rate is for the attending IEEE member and one guest only and an IEEE Member name and number must be provided below.*

If you have any questions or need additional information, please contact:
Mr. David Horn at (631) 560-2309 or at nysectionadd@yahoo.com

TICKET RESERVATION FORM

Send form to: Mr. David Horn
129 Rosemont Avenue
Farmingville, NY 11738

Please indicate # of entrée selections:
Filet Mignon _____
Salmon _____
Vegetarian _____

Please identify any special dietary restrictions (Kosher, Shellfish, etc.) below:

Send tickets to:

Name: _____
Company: _____
Address: _____
City: _____ State _____ Zip _____
Telephone: _____ E-Mail: _____

IEEE Member Name(s) and #(s): _____

No. of IEEE Member Tickets @ \$150 per ticket: _____

Other Tickets:

No. of Tables @ \$2,750 per table: _____

No. of Tickets @ \$275 per ticket: _____

Total Amount Enclosed: \$ _____

Make Check Payable to: New York Section, IEEE



***DRONES: IS THE SKY THE LIMIT?* UNITED STATES' FIRST MAJOR MUSEUM EXHIBITION ON PILOTLESS AIRCRAFT SET TO OPEN AT THE INTREPID SEA, AIR & SPACE MUSEUM ON MAY 10, 2017**

Support for *Drones: Is the Sky the Limit?* and related programs is generously provided by the American Institute of Aeronautics and Astronautics (AIAA) and **The Institute of Electrical and Electronics Engineers (IEEE) Foundation**. Additional support for education programs has been generously provided by the Rose M. Badgeley Residuary Charitable Trust, The Ambrose Monell Foundation and the May and Samuel Rudin Foundation. Education programs at the Intrepid Museum are supported in part by the New York City Department of Cultural Affairs in partnership with the City Council

For details please visit <http://www.intrepidmuseum.org/LatestNews/January-2017/Drones-Is-The-Sky-The-Limit.aspx> and <http://www.intrepidmuseum.org/drones>

Don't miss this unique opportunity to see drones on board the USS Intrepid.

You will enjoy the visit!!



IEEE

*Leveraging Technology for a
Better Tomorrow*

NY IEEE Education Committee

& New York Chapter of IEEE Systems, Man, Cybernetics (SMC) Society

May 12, Friday, 6~ 8:00 PM at LIU-Brooklyn, Room: HS 119

From Machine Learning to Deep Learning: How Artificial Intelligence is Changing the World

Dr. Rensheng Wang

Principal Inventive Scientist

AT&T research labs

ABSTRACT:

Recently, deep learning, a branch of artificial intelligence inspired by the structure of the human brain, has made enormous strides in giving machines the ability to intuit the physical world. In this talk, we will discuss how deep learning evolves from neural network and machine learning, and how deep learning is leading the way in artificial intelligence to profoundly change human's future life.



Keynote Speaker Bio:

Dr. Rensheng Wang is a Principal Inventive Scientist at AT&T research labs. He received his Ph.D. degree in Electrical Engineering from Stevens Institute of Technology. His research lies in the general areas of Machine Learning, Data Mining with Big Data Platform. He received the Big-data Hackathon Competition Award from AT&T in 2015 and he was a winner of Data Mining Analytical Challenge from The Australasian Data Mining Conference, AusDM in 2009.

Location:

Directions: <http://www.liu.edu/Brooklyn/About/Visit/Directions.aspx>

Refreshments: Refreshments will be offered at 6:00 PM, presentation starts at 6:30 PM.

ALL ARE INVITED

THE END