



THE IEEE NORTH JERSEY SECTION NEWSLETTER

Vol. 58, No.3

JUNE-JULY 2011

In this issue

- Calendar of Upcoming Meetings and Events
- Meetings and Upcoming Events
- In Memoriam
- Announcement: 26th Annual Symposium and Mini-Show
- 2011: North Jersey Section Roster

Calendar of Upcoming Events and Section Activities:

- **June 16, 2011: 7:00 PM – 8:30 PM**
IEEE North Jersey Section, Systems Man & Cybernetics Society present: [Improvability Theory for Hospital Emergency Department: A System-Theoretic Approach to Reduce Crowding](#): Dr. Jingshan Li - Associate Professor of Industrial and Systems Engineering in University of Wisconsin at Madison
Location: NJIT, ECEC-202, 161 Warren Street, Newark, NJ 07102
Contact: Dr. Mike Liechenstein (973-471-0721),
Email: ITSMIKESJU@AOL.COM or ZHOU@NJIT.EDU
- **June 29, 2011: 9:30 AM – 3:00 PM**
NJIT College of Computing Sciences presents: [A Symposium: Emerging Software and IT Technologies](#): Various speakers
Location: NJIT, GITC 3710, University Heights, Newark, NJ 07102
Contact: serena.branson@njit.edu
- **June 30, 2011: 6:30 PM – 8:45 PM**
IEEE CNNJ presents: [Making Engineers' Voices Heard](#) : Dr. Russel Harrison - Legislative representative of the IEEE
Location: Morris County Library, 30 East Hanover Avenue, Whippany, New Jersey **Contact:** Dr. Robert Walker at 973-728-0344 or visit www.TechnologyOnTap.org
- **July 06 to August 24, 2011: 6:30 PM – 9:00 PM**
(Eight Wednesdays, July 6, 13, 20, 27, August 3, 10, 17, 24 2011)
IEEE North Jersey Section and NJIT present: [Financial Accounting 8 Nights Course](#) : Dr. Donald Hsu - Corporate Manager
Location: NJIT, ECEC-202, 161 Warren Street, Newark, NJ 07102
Contact: Dr. Donald Hsu at yanyou@hotmail.com
- **July 06 to August 24, 2011: 6:30 PM – 9:00 PM**
(Eight Wednesdays, July 6, 13, 20, 27, August 3, 10, 17, 24 2011)
IEEE North Jersey Section and NJIT present: [C# .NET - 8 Nights Course](#) : John Huang - Senior Developer at IBM Corporation
Location: NJIT, ECEC-202, 161 Warren Street, Newark, NJ 07102
Contact: Dr. Donald Hsu at yanyou@hotmail.com
- **July 11 To August 29, 2011: 6:30 PM – 9:00 PM**
(Eight Mondays: July 11, 18, 25, August 1, 8, 15, 22, 29 2011)
IEEE North Jersey Section and NJIT present: [Marketing Research – 8 Nights Course](#) : Dr. Donald Hsu – Corporate Manager
Location: NJIT, ECEC-202, 161 Warren Street, Newark, NJ 07102
Contact: Dr. Donald Hsu at yanyou@hotmail.com
- **Aug 03, 2011: 6:00 PM – 8:45 PM:**
[North Jersey Section EXCOM Meeting](#)
Location: Clifton Public Library - Allwood Branch, Activity Room, 44 Lyall Road, Clifton, NJ 07012

For details of events please visit:

http://webinabox.vtools.ieee.org/wibp_calendar/index/R10327

Meeting Announcements:

June 16, 2011

IEEE North Jersey Section, Systems Man & Cybernetics Society present:

Improvability Theory for Hospital Emergency Department: A System-Theoretic Approach to Reduce Crowding

By: Dr. Jingshan Li, Associate Professor of Industrial and Systems Engineering in University of Wisconsin at Madison

Abstract: Hospital emergency departments (ED) across the US are overcrowded. The number of EDs is decreasing, while patient volume is rising. Overcrowding not only results in delayed treatment, long patient waiting time and stay, overburdened working staff, patient elopement and low throughput, it also leads to many other problems, such as medical errors due to overloading, high turnover, diverting of ambulances, etc. In addition, overcrowding also has a significant financial implication. Therefore, analyzing the patient flow in ED to minimize length of stay, improve efficiency and reduce crowding is necessary and important. This talk is devoted to introducing an analytical framework for ED modeling and analysis to improve its efficiency and reduce crowding. In parallel to production systems, we intend to develop an improvability theory for ED operations. Specifically, a system-theoretic approach is proposed to evaluate ED performance in terms of patient outcomes, identify system bottlenecks and redistributing limited resources optimally, and determine optimal workforce configuration and resource allocation to achieve desired performance. This talk will briefly introduce the preliminary results on analyzing care delivery services within the patient rooms, where the patients receive most of the services and spend most of their length of stay. A Markov chain model is introduced to evaluate the patient length of stay and staff utilization with multiple re-entrant care services under limited resources.

Biography: Dr. Jingshan Li is an Associate Professor of Industrial and Systems Engineering in University of Wisconsin at Madison. He was an Assistant Professor of Electrical and Computer Engineering, University of Kentucky, Lexington, KY from 2006 to 2010, and a Staff Researcher in General Motors Research & Development Center, Warren, MI from 2000 to 2006. He received BS from Dept. of Automation, Tsinghua University, Beijing, China, and MS from Institute of Automation, Chinese Academy of Sciences, Beijing, China, and PhD in Electrical Engineering – Systems, University of Michigan, Ann Arbor, MI in 1989, 1992 and 2000, respectively. Dr. Li is the co-author of the textbook *Production Systems Engineering* (Springer, 2009), and he co-edited the book *Advances in Systems Theory: Control,*

Communication Networks, Production Systems and Rational Behavior (WingSpan Press, 2009). To date, he has published more than 40 refereed journal articles, 4 book chapters and 60 conference proceedings. He is the Department Editor of IIE Transactions – Design and Manufacturing, Lead Guest Editor of special issue on “Automation in Green Manufacturing” in IEEE Transactions on Automation Science and Engineering, special issue on “Integration of Production Systems and Quality Management” in IIE Transactions. He was the Associate Editor of IEEE Transactions on Automation Science and Engineering and Mathematical Problems in Engineering, and Lead Guest Editor of special issue on “Automation in Automotive Manufacturing” of IEEE Transactions on Automation Science and Engineering. He received NSF CAREER Award (2010-2015), the 2009 IIE Transactions Best Application Paper Award – Design and Manufacturing, 2005 IEEE Transactions on Automation Science and Engineering Best Paper Award, 2006 IEEE Early Industry/Government Career Award in Robotics and Automation. His paper on simulation of emergency department was among the “Top 25 Hottest Articles in Journal of Emergency Nursing,” July-September, 2010. His primary research interests are in design, analysis and control of production and health care systems. His research has been supported by NSF, General Motors, Central Baptist Hospital, University of Kentucky Hospital, DOE, UKRF, SME, and WARF.

All Welcome!

You need not be a member of IEEE to attend, and there is no charge for admission. Light refreshments will be served starting at 6:45 PM.

Location: New Jersey Institute Technology
ECEC-202, 161 Warren Street, Newark, NJ 07102

For Directions: [Getting to NJIT](#)

Time: 07:00PM – 08:30PM

Contact: Dr. Mike Liechenstein (973-471-0721) or

E-Mails: (ITSMIKESJU@AOL.COM or ZHOU@NJIT.EDU)

For registration please RSVP to the above contacts

**IEEE NORTH JERSEY SECTION
HOME PAGE**

<http://www.ieee.org/go/njsection>

June 29, 2011

NJIT College of Computing Sciences presents:

A Symposium: Emerging Software and IT Technologies:

Agenda:

Item	Speaker	Time
Welcome	Dr. Narain Gehani, CCS	9:30 am – 9:45 am
Keynote Address	Dr. Al Aho, Columbia University	9:45 am – 10:45 am
Federal Government Support of Software Sales	Joel Reynoso, Northern NJ Export Assistance Center	10:45 am – 11:45 am
Networking Luncheon: 11:45 am – 1:00 pm		
Trends in the Fast Moving World of IT	Dr. Michael Halper, IT Program	1:00 pm – 1:30 pm
C++ for Today & the Future	Dr. Bjarne Stroustrup, Texas A & M University	1:30 pm – 2:30 pm
General Discussion & Wrap Up	Larry Bernstein	2:30 pm – 3:00 pm

Location: New Jersey Institute Technology
GITC 3710, University Heights, Newark, NJ 07102

For Directions: [Getting to NJIT](#)

Time: 09:30PM – 03:00PM

Contact: serena.branson@njit.edu

For more details and registration please:

Please email your name, title, company, email address and telephone number to

serena.branson@njit.edu

**** Register early as seats are limited ****

June 30, 2011

IEEE CANNJ presents:

Making Engineers' Voices Heard:

By: Dr. Russel Harrison, Legislative representative of the IEEE

Abstract: Congress has been making quite a bit of noise this year, but does this mean our legislators have been productive?

At the half-way mark in 2011, it is a good time to stop and assess what Congress has done so far, and what they are likely to get done the rest of the year.

IEEE-USA Legislative Representative Russ Harrison will join us for a conversation about what is likely to happen in Washington this year (hint: education reform and SBIR reform) and what isn't (just about everything else).

We'll cover legislative topics that are especially important to consultants and IEEE members, including energy reform, intellectual property reform, the federal budget and high-skill immigration reform. If your professional career is impacted by the federal government - and it is - join us on June 30th for this informal and educational discussion.

Biography: Dr. Russell is the Senior Legislative Representative for Grassroots Activities for IEEE-USA, where he is responsible for helping IEEE members in the U.S. interact with, and ultimately influence, elected officials.

Since joining IEEE-USA in 2005, Russell has become one of the most sought-after speakers on the IEEE staff, having addressed nearly 150 local IEEE groups in the United States. His talks focus on current public policy issues, how they will impact the engineering profession and what individual engineers can do about them.

Russell has over 15 years of experience working with legislators at all levels of government on behalf of IEEE and industrial organizations, on Capitol Hill and in state capitols on a variety of issues as a professional lobbyist. Russell has a BA in Political Science and a Masters in Public Policy, earning his CAE certification in 2009. He can be contacted at r.t.harrison@ieee.org

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

More information about us is available at www.TechnologyOnTap.org

Free admission – members and non-members

ALL are welcome.

Location: Morris County Library, 30 East Hanover Avenue, Whippany, New Jersey

For Directions: [Morris County Library](#)

Time: 06:30PM – 08:45PM

Contact: Robert Walker at 973-728-0344

For more details and registration please visit:

www.TechnologyOnTap.org

July 06 to August 24, 2011

IEEE North Jersey Section and NJIT present:

Financial Accounting – Eight Nights Course

By: Dr. Donald Hsu, Corporate Manager

Abstract: The IEEE North Jersey Section is offering a course entitled "Financial Accounting". US Bureau Labor Statistics reports that 2.1 million Accounting jobs need to be filled by 2019. Indeed.com lists 25,000+ accounting jobs in the New York tri-state area daily! This course will cover the fundamentals of debit credit, inventory, cost of goods sold, cash flow, internal control, operating assets, liability, owner's equity, income measurement, accrual accounting, and time value of money, tax issues, and financial statement analysis. In addition, QuickBooks software will be used. QuickBooks is currently employed by 4 million small business owners in USA.

You will receive the IEEE Certificate of Completion when you finish the course. You may use the knowledge from this course, to find accounting jobs. Or you can start your own company using QuickBooks to keep track of the revenues and expenses.

Biography: Dr. Donald Hsu has been a corporate manager for 11 years and is an experienced trainer. Since 2004, he has trained 400+ people in accounting, personal finance, investment analysis, QuickBooks, and PeachTree courses in 4 organizations.

Location: New Jersey Institute Technology
ECEC-202, 161 Warren Street, Newark, NJ 07102

For Directions: [Getting to NJIT](#)

Time: 06:30PM – 09:00PM

(Eight Wednesdays, July 6, 13, 20, 27, August 3, 10, 17, 24, 2011,)

Contact: Dr. Donald Hsu, at yanyou@hotmail.com.
It will be replied within 48 hours.

For more details, admission fees and registration please visit:

[Financial Accounting – 8 Nights Course](#)

July 06 to August 24, 2011

IEEE North Jersey Section and NJIT present:

C#.NET Programming – Eight Nights Course

By: John Huang, Senior Developer at IBM Corp.

Abstract The IEEE North Jersey Section is offering a course entitled "C# .NET Programming". Since 2004, C# .NET has generated significant headway in

Fortune 1000 enterprise development systems. Dice.com lists 1000+ C# .NET jobs (up from 720 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 MCSA certifications. You may wish to get certified by taking the necessary Microsoft exams with the knowledge gained from this course.

Biography: John Huang, a Senior Developer at IBM Corporation. He worked at IBM, Merrill Lynch and AT&T for 15+ years. Since 2001, he taught C#, .NET, SQL Server to 300 people, 90% of them found jobs.

Location: New Jersey Institute Technology
ECEC-202, 161 Warren Street, Newark, NJ 07102

For Directions: [Getting to NJIT](#)

Time: 06:30PM – 09:00PM

Contact: Donald Hsu at yanyou@hotmail.com

For more details, admission fees and registration please visit:

[C# .NET - 8 Nights Course](#)

July 11 to August 29, 2011

IEEE North Jersey Section and NJIT present:

Marketing Research – Eight Nights Course

By: Dr. Donald Hsu, Corporate Manager

Abstract The IEEE North Jersey Section is offering an evening course entitled "Marketing Research". Careerbuilder.com lists 6100+ Marketing jobs in the New York tri-state area daily! As an engineer, you never did marketing. Getting the MBA takes two years. This is the better alternative to learn marketing.

This course deals with the collection, evaluation and analysis of the market-related information. 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 data analysis in healthcare, finance, social sciences, and marketing research firms.

The IEEE certificate of completion will be given to you when you finished this course. In addition, you

may work as a market researcher in any organization that needs your quantitative skills.

Biography: Dr. Donald Hsu has been a corporate manager for 11 years and is an experienced trainer. Since 2005, he has trained 880+ people in Management, Marketing, Global Marketing, and Marketing Research courses in seven organizations.

Location: New Jersey Institute Technology
ECEC-202, 161 Warren Street, Newark, NJ 07102

For Directions: [Getting to NJIT](#)

Time: 06:30PM – 09:00PM

Mondays: July 11, 18, 25, August 1, 8, 15, 22, 29 2011

Contact: Donald Hsu at yanyou@hotmail.com

For more details, admission fees and registration please visit:

[Marketing Research - 8 Nights Course](#)

August 03, 2011

IEEE North Jersey Section

[North Jersey Section EXCOM Meeting](#)

Abstract: The next Excom meeting is at the Allwood Branch of the Clifton Public Library.

Normal meeting agenda times and buffet all still the same, both in the main activity room

Section Business Discussion/Planning for all chapters, groups, committee chairs

Location: Clifton Public Library - Allwood Branch, Activity Room, 44 Lyall Road, Clifton, NJ 07012

Time: 06:00PM – 08:45PM

Buffet 6 PM, meeting 7 PM, 8:45 PM (hard end time)

For more details please visit:

[North Jersey Section Excom Meeting](#)

In Memoriam

Joel Snyder, the 39th President of IEEE, has passed away. He was 75 and at the time of his death and lived in Boynton Beach, FL.

Joel Snyder received the BEE and MSEE degrees from the Polytechnic Institute of Brooklyn. Over the course of his career, he worked for Harman Kardon, Airborne Instruments Laboratory, and IBM.

He also taught at Polytechnic University, Brooklyn, New York; The New York Institute of Technology; and Long Island University. Most recently he served as a consulting engineer and principal of Snyder Associates in Plainview, New York. He was a Senior Member of the IEEE; Fellow of the Institution of Electrical Engineers (IEE, now IET);

a Member (Hon) of the Popov Society for Radioengineering, Electronics and Communications; and an Academician in the International Telecommunications Academy (ITA).

Mr. Snyder has worked in the fields of removable media disk memories, voice-over-data modems, speech compression techniques, nonlinear sampling techniques, redundant and parallel computer systems, and powered prosthetics. He held several patents on video piracy prevention techniques. In addition to his many roles in IEEE governing bodies, he was a member of the Board of Trustees of the United Engineering Foundation, N.Y.; the Board of Directors, Motiontronics for Science Corporation, N.Y.; the Board of Directors for the RFID Educational foundation, VA; the Board of Directors, Internet Golf Multimedia, N.Y.; and the Board of Directors, Homeland Security Industries Association, Inc., N.Y.

Mr. Snyder served as IEEE President in 2001, a year of great organizational and financial challenges for the Institute, from which IEEE has emerged better organized and stronger. His enthusiasm for the organization and for its mission was unbounded, and in the last few years he continued to serve in committees and governing bodies of IEEE in spite of mounting personal impediments and illness. His colleagues will remember him as a friendly, warm and passionate volunteer, for whom participation in IEEE activities was an integral part of life, not just a professional career.

We send our sincere condolences to his family and friends.



THE INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS, INC.

IEEE NORTH JERSEY SECTION MTT-Society and AP-Society Joint Chapter

PRESENTS

26th ANNUAL SYMPOSIUM AND MINI-SHOW

FOCUS:

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

DATE: THURSDAY OCTOBER 6, 2011

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 2011.

For further information contact:

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

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

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

THERE IS NO CHARGE TO ATTEND THE SYMPOSIUM OR SHOW.

2011 IEEE North Jersey Section

Region 1 – Area Volunteers

Southern Area
Chair - Durga Misra,
dmisra@njit.edu

Metsac Society
Chair - Kirit Dixit
kdixit@ieee.org

Section Volunteers

Executive Committee

Chair - Naresh Chand
chandnaresh@gmail.com

Vice Chairman - 1 - Russell Pepe
rcpepe@ieee.org

Vice Chairman - 2 - Har Dayal
dayalhar@gmail.com

Secretary - Mengchu Zhou
zhou@njit.edu

Treasurer - Paul E Ward
peward@ieee.org

Members at Large

1. Jignasa Ray
jignasa.ray@ieee.org
2. Adriaan Van Wijngaarden
avw@ieee.org
3. Chris Peckham
cdp@ieee.org

Junior Past Chair - Amit Patel
a.j.patel@ieee.org

Senior Past Chair - Kirit Dixit
Kdixit@ieee.org

Society/ Chapters/ Chair

Aerospace Electronic Systems Society
Chair - Chandra Gupta
c.gupta@ieee.org
Co-Chair - Naresh Chand
chandnaresh@gmail.com

Antennas and Propagation Society
Chair - Har Dayal
dayalhar@gmail.com

Microwave Theory and Technical Society
Chair - Kirit Dixit
kdixit@ieee.org

Vice – Chair - Ajay Poddar
akpoddar@synergymwave.com

Circuits and Systems Society
Chair - Durga Misra
dmisra@njit.edu

Electron Devices Society
Chair - Durga Misra,
dmisra@njit.edu

Engineering in Medicine and Biology Society
Chair - Raquel Perez-Castillejos
raquelpc@njit.edu

Communications Society
Chair - Nirwan Ansari
nirwan.ansari@njit.edu

Computer Society
Chair - Hanna (Hong) Zhao
zhao@fdu.edu

Controls Society
Chair - David Haessig
davidhaessig@ieee.org

Engineering Management Society
Chair - Tony Almeida
almeida@synergymwave.com

Instrumentation Measurement Society
Chair - Russel Pepe
rcpepe@ieee.org
Vice-Chair – Peter J. Pupaiaikis
peterp@lecroy.com

Photonics Society
Chair - Haim Grebel
grebel@adm.njit.edu

Power & Energy Society
Chair - Ron Quade
rwquade@ieee.org

Industrial Applications Society
Chair - Ken Oexle
k.oexle@ieee.org

Systems, Man, and Cybernetics Society
Chair - Mike Liechenstein
ltmikesju@aol.com

Signal Processing Society
Chair - Yun Q. Shi
shi@njit.edu

Vehicular Technology Society
Chair - Yu-Dong Yao
yyao@stevens.edu

Affinity Group Chair
Consultants Network
Chair - Peter Schutz
schutz@compuserve.com

GOLD
Chair - Lawrence Yang
yangl@ieee.org

Women In Engineering
Chair - Zhiwei Mao,
zmiao@fdu.edu

Vice-chair - Radhasree Mohanty
rmty@ieee.org

LIFE Members
Chair - Art Greenberg
a.h.greenberg@ieee.org

Committee Volunteers

Awards/Recognition
Chair - Ken Oexle
k.oexle@ieee.org

Education
Co-Chair - Donald Hsu
yanyou@hotmail.com
Co-Chair - Kalyan Mondal
Mondal@fdu.edu

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

Membership Development (Interim)
Chair - Victor Bonachea
vbonachea@gmail.com
Vice-Chair (open)

MTT/AP Mini Show / Symposium
Chair - Kirit Dixit
kdixit@ieee.org
Vice-Chair – Har Dayal
dayalhar@gmail.com
TPC Chair – George Kennall
gkk@lgsinnovations.com

Nominations
Chair - Kirit Dixit
kdixit@ieee.org

Newsletter
Chair - Anisha Apte
anisha_apte@ieee.org

PACE
Chair - Richard Tax
rtax@verizon.net
Vice-Chair – Paul E Ward
peward@ieee.org

Pre-College Activities
Chair - Har Dayal
dayalhar@gmail.com
Vice-Chair – Hitaish Sharma
hitaish@gmail.com

Student Activities
Chair - John C Taylor
john.taylor86@live.com

Audit Committee Chair
Chair - Fred Chichester
fdchichester@gmail.com