IEEE Newsletter

PUBLICATION OF THE NORTH JERSEY SECTION OF THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS

NJ Communications Society:

Stochastic Routing for Delay Tolerant Networks

On November 29, 2010, the IEEE NJ Communications Society Chapter will host a presentation titled "Stochastic Routing for Delay Tolerant Networks." The speaker will be Professor Zygmunt J. Haas.

About the Talk

In this talk, Professor Haas will discuss selected research results in the area of Stochastic Routing. Professor Haas will concentrate on the use of Stochastic Routing as it applies to Delay/Disruption Tolerant Networks (DTNs). DTNs are useful for applications with lenient requirements on message latency and Stochastic Routing is especially well suited for mobile DTNs. Professor Haas will compare some of the Stochastic Routing schemes and discuss a number of potential applications.

Gossiping, an example of Stochastic Routing, is a technique where each node resends the received message with some probability. In fact, flooding is a limiting of Gossiping where case retransmission probability equals 1. Numerous variants of Gossiping have been proposed and optimized to implement efficient broadcasting, multicasting, and anycasting.

Epidemic Routing, another example of a Stochastic Routing scheme, has been proposed as a routing protocol for DTNs. Unrestricted Epidemic Routing results in shortest packet delivery time and high packet delivery probability at the destination nodes. However, this comes at the cost of excessive number of packet copies in the network, which leads to wasteful energy consumption at the nodes. Professor Haas will introduce and present the performance of several schemes which, in different ways, restrict the Epidemic Routing in the number of generated packet copies. The schemes are compared in regards to the tradeoff between energy consumption and delivery delay, while maintaining fixed

delivery rate.

Another drawback of Epidemic Routing is that the energy consumption is unequal at the different network nodes. Consequently, the system's lifetime is reduced. I will discuss several of our approaches to extend the system lifetime of Epidemic Routing.

About the Speaker

Professor Zygmunt J. Haas received his PhD in 1988 from Stanford University, at which time he joined the AT&T Bell Laboratories pursuing research communications, wireless mobility management, fast protocols, optical networks, and optical switching. In 1995, he joined the faculty of the School of Electrical and Computer Engineering at Cornell University. He heads the Wireless Network Laboratory (wnl.ece.cornell.edu), a research group with extensive contributions in the area of Ad Hoc Networks and Sensor Networks. Recently, he has been serving as an NSF Program Director in the Engineering Directorate.

Dr. Haas is a Fellow of the IEEE and an author of over 200 technical conference and journal papers. He holds eighteen

patents in the areas of wireless networks and wireless communications, optical switching, optical networks, and high-speed networking protocols. He has organized numerous workshops, chaired and co-chaired several key conferences in the communications and networking areas, and delivered many tutorials at major IEEE and ACM conferences. His interests include: mobile and wireless communication and networks, modeling and performance evaluation of large and complex systems, and biologically-inspired networks.

Time: 2:30 PM, Monday, November 29, 2010. Refreshments will be available starting at 2:15 PM.

Place: New Jersey Institute of Technology (NJIT), Room 202, ECE Center (Intersection between Warren & Summit Streets), Newark, NJ. Directions are available at http://www.njit.edu/about/visit/gettingtonjit.php

Information: Professor Nirwan Ansari, (973) 596-3670. Check http://web.njit.edu/~ieeenj/comm.html for latest updates.

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Deadline for receipt of material is the 1st of the month preceding the month of publication. All communications concerning editorial and business matters, including advertising, should be sent to the Business Manager via e-mail at *k.saracinello @ieee.org* or to *The IEEE Newsletter, c/o Keith Saracinello, 25 Messenger Ln, Ringoes, NJ 08551,* (302) 683-7162.

IEEE NJ SECTION HOME PAGE

http://web.njit.edu/~ieeenj/ IEEE NJ SECTION NEWSLETTER HOME PAGE http://web.njit.edu/~ieeenj/NEWSLETTER.html

REPORT ADDRESS CHANGES TO:

IEEE Service Center, 445 Hoes Lane, P.O. Box 1331, Piscataway, NJ 08855-1331, (732) 981-0060. It is not necessary to inform the North Jersey Section when you change your mailing address. "The IEEE Newsletter" and other section mailings use a list provided by IEEE's national headquarters.

SECTION OFFICERS

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Dr. Katherine Duncan (kduncan@ieee.org)
Dr. Mengchu Zhou (zhou@njit.edu)

The North Jersey Section Executive Committee usually meets the first Wednesday (except holidays and December) of each month at 7:00 PM. Meetings are open to all members. For information on meeting agenda contact Secretary Russell Pepe at (201) 960-6796, rcpepe@ieee.org.

North Jersey Section to Hold Senior Member Drive at Its December Executive Committee Meeting

The IEEE North Jersey Section is proud to announce its annual end of the year workshop agenda and relevant changes affecting members. Each year, the election results for new officers for the North Jersey section for the following year are announced by the tellers committee by the December executive committee meeting. The new officers are then installed and take office in the coming January.

This year will be different from year's past with a newly expanded agenda for the December executive committee meeting. In addition to the normal election result announcements, this year a number of key topics have been added in response to member requests.

A number of section IEEE members and non-members have been inquiring how they can become more informed about and involved with the section and different IEEE activities being held throughout the year. Some from just increased attendance and others from increased active participation and volunteering for different activities and events.

Also, many members have inquired how they can apply for a senior-member grade elevation and go about obtaining required references for their senior member application.

With the membership interests in mind, the end of the year executive committee meeting will have its agenda changed to hold an information session on the Senior Membership grade elevation process and an opportunity to interact with current senior members to find that last missing reference match for those seeking senior membership with an active application in process. If you have not started your senior membership application yet, start now and have your references completed by the end of the year.

All section members are invited to attend, especially those who are current senior members and are willing to serve as references, those interested in learning how to stay better informed of section and area wide IEEE activities that are occurring. For those interested in becoming more active in general IEEE activities, volunteering, or those seeking senior membership.

The event will be held on Wednesday, December 1, 2010, 6-9PM at a final

location to be determined. Stay tuned to the newsletter and website for additional information about registering for this event.

North Jersey Section Seeks Committee Chairs and Volunteers

The North 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. For Society Chapter Chairs, you MUST be a member of the corresponding IEEE Society.

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 Dr. Chandra Gupta at c.gupta@ieee.org. You are welcome to attend the Section business meeting held the first Wednesday of every month to find out more and other volunteer activities that require some help.

Some committees needing volunteers include the following. Please contact the person indicated for additional information.

- Aerospace and Electronic Systems Society Chair - contact naresh.chand@baesystems.com
- GOLD (Graduates of the Last Decade)
 Affinity Group Volunteers and Committee members needed contact northjerseygold@ieee.org
- WIE (Women in Engineering) Affinity Group Volunteers and Committee members needed - contact iignasa.ray@ieee.org
- EMBS (Engineering in Medicine and Biology Society) is seeking a chair and active committee volunteers - contact RaquelPC@njit.edu
- Membership Development Committee Chair and Volunteers - contact c.gupta@ieee.org
- Computer Society Chapter Committee Volunteers - contact zhao@fdu.edu
- Technical Management Council Committee Volunteers - contact saumil@ieee.org
- North Jersey Section Awards Committee Volunteers - contact k.oexle@verizon.net

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://web.njit.edu/~ieeenj/, or contact Dr. Chandra Gupta c.gupta@ieee.org.

IEEE North Jersey Section Activities November 2010

- **Nov. 3** "NJ Section Meeting", 6:30 PM, "Executive Committee Meeting" 7:00 PM, Clifton Public Library Allwood Branch, 44 Lyall Road, Clifton, NJ 07012. Russell Pepe at rcpepe@ieee.org.
- **Nov.** 6 "Student Branch Leadership Training Workshop", Region 1 SAC, 9:30 AM 5:00 PM, The City College of New York, Steinman Hall, 140th Street and Convent Ave, New York, NY. Register at http://meetings.vtools.ieee.org/meeting_view/list_meeting/3303. Jignasa Ray, jignasa.ray@ieee.org.
- **Nov. 10** "Photocurrent and Noise Analysis as Alternative Approaches to Understanding OFET Behavior" by Professor John Kymissis, NJ EDS/C&S, 5:00 PM, New Jersey Institute of Technology (NJIT), Room 202, ECE Center (Intersection between Warren & Summit Streets), Newark, NJ. Dr. Durga Misra, (973) 596-5739 (dmisra@njit.edu) or Dr. Edip Niver, (973) 596-3542 (NJIT).
- **Nov. 10** "Engineers Meet: How to Interface with Congress and Make an Impression Part 2" with Paul Ward and Richard Tax, NJ PACE, 6:30 PM to 9:00 PM, Clifton Memorial Library, 292 Piaget Ave, Clifton, NJ. Paul Ward, (973) 790-1625, peward@ieee.org, Richard F. Tax, (201) 664-6954, rtax@aea.org.
- **Nov. 12 Dec. 17 –** "Introduction to Cisco Networking" by Dr. Joseph Miao, 5:40 9:55 PM, Polaris Microsystems, Inc., 2337 Lemoine Avenue, Fort Lee, NJ. Donald Hsu, yanyou@hotmail.com.
- **Nov. 17** "English Free Choice Items: 'Any' and 'Wh+ever'" by Professor Veneeta Dayal, NJ SP Society Chapter, 12:30 1:30 PM, Burchard Building, Room 430, Stevens Institute of Technology, Hoboken, NJ. Hong Man, (201) 216-5038, hman@stevens.edu.
- **Nov. 18** "Development of a Gait Rehabilitation System" by Dr. Zhiming Ji, NJ Control Systems Chapter, 6:30 8:00 PM, New Jersey Institute of Technology (NJIT), Room 202, ECE Center (Intersection between Warren & Summit Streets), Newark, NJ. Professor MengChu Zhou, (973) 596-6282, zhou@njit.edu.
- Nov. 29 "Stochastic Routing for Delay Tolerant Networks" by Professor Zygmunt J. Haas, NJ Communications Society, 2:30 PM, New Jersey Institute of Technology (NJIT), Room 202, ECE Center (Intersection between Warren & Summit Streets), Newark, NJ. Professor Nirwan Ansari, (973) 596-3670. Check http://web.njit.edu/~ieeenj/comm.html for latest updates.
- **Nov. 30** "Global Mains Wiring for Electrical Equipment" by Donald Gies, NJ IMS, 6:30 PM, New Jersey Institute of Technology (NJIT), Room 202, ECE Center (Intersection between Warren & Summit Streets), Newark, NJ. Russell C. Pepe, (201) 960-6796, rcpepe@ieee.org.

Upcoming Meetings

Dec. 1 – "NJ Section Annual End-Of-Year Workshop", location TBD. Amit Patel, a.j.patel@ieee.org.

Members and Non-Members Welcome PLEASE POST

NJ Section PACE:

Engineers Meet: How to Interface with Congress and Make an Impression – Part 2

On Wednesday, November 10, 2010, the North Jersey Section Professional Activities Committee (PACE) of IEEE will meet for a group discussion concerning making things happen in Washington. Off Shoring of Manufacturing, importing foreign engineers and discriminating against our U.S. engineers need to be addressed. But, it isn't enough to talk among ourselves about these problems we have to bring our concerns to our Washington representatives at the local level. Our last (October) guest speaker Russell T. Harrison Senior Legislative Representative - Grassroots Affairs, IEEE-USA, told us how.

About the Meeting:

This meeting will be dedicated to successfully interfacing with Washington representatives at their local office. Mr. Harrison said the American political system is relatively easy to interact with - if you know a few key rules and tricks. Regardless of what your personal concerns are, this review will help you target your issues and bring them to the attention of representatives. As engineers we can play a role in making our Representatives aware of our concerns.

All interested parties are invited for an interesting and informative discussion.

About the Speakers:

PACE Chairs, Paul Ward and Richard Tax, will moderate the session.

All Welcome!

Members and students from all professional societies and engineering disciplines are welcome. We now have attendees from IEEE, ASME, NSPE, ASCE and AEA. For information about these groups see:

www.aea.org www.ieeeusa.org/policy/care www.ieeeusa.org www.programmersguild.org http://web.njit.edu/~ieeenj/ www.asme.org/sections/northjersey

Time: 6:30 PM to 9:00 PM, Wednesday, November 10, 2010. Refreshments will be served.

Place: Clifton Memorial Library, 292 Piaget Ave, Clifton, NJ, (973) 772-5500. Information: Paul Ward, (973) 790-1625, peward@ieee.org, Richard F. Tax, (201) 664-6954, rtax@aea.org.

NJ EDS/C&S:

Photocurrent and Noise Analysis as Alternative Approaches to Understanding OFET Behavior

On November 10, 2010, the IEEE NJ Section Electron Devices, Circuits and Systems Chapters together with the New Jersey Institute of Technology will host a talk on "Photocurrent and Noise Analysis as Alternative Approaches to Understanding OFET Behavior." The speaker will be Professor John Kymissis of Columbia University.

About the Talk

The characterization of organic field effect transistors is complicated by the influence of the contacts on channel behavior and the trap limited conduction mechanism which governs device performance.

In this presentation, several strategies for probing OFETs will be discussed. In particular, the use of spectrally resolved spectroscopy photocurrent demonstrated as a strategy for the analysis of trap states in the device, spatially resolved photocurrent will be presented as an approach for measuring internal device potential, and noise spectroscopy will be presented as an approach to evaluating the effect of trap states on channel conduction. These probes provide additional pathways for analyzing OFET device and material behavior with different complicating parasitics than incumbent characterization approaches.

About the Speaker

Ioannis (John) Kymissis graduated with his BS, MEng, and PhD degrees from MIT. His MEng thesis was done as a coop at the IBM TJ Watson Research Lab on organic thin film transistors, and his PhD was in the Microsystems Technology Lab at MIT working on field emission displays. After graduation he spent three years as a post-doc in MIT's Laboratory for Organic Optics and Electronics working on a variety of organic electronic devices and as a consulting engineer for QDVision, which is developing and commercializing a novel light emitting architecture based on quantum dots. In John joined the Electrical 2006. Engineering department at Columbia University and leads the Columbia Laboratory for Unconventional Electronics which focuses on development and applications of thin film electronic systems.

All Welcome!

You do not have to be a member of the

IEEE to attend.

Time: 5:00 PM, Wednesday, November 10, 2010. Pizza and refreshments will be offered at 4:45 PM.

Place: New Jersey Institute of Technology (NJIT), Room 202, ECE Center (Intersection between Warren & Summit Streets), Newark, NJ. Directions are available at http://www.njit.edu/about/visit/gettingtonjit.php.

Information: Dr. Durga Misra, (973) 596-5739 (dmisra@njit.edu) or Dr. Edip Niver, (973) 596-3542 (NJIT).

NJ SP Society Chapter:

English Free Choice Items: 'Any' and

'Wh+ever'

On November 17, 2010, the NJ Signal Processing Society will be hosting a lecture at NJIT titled "English Free Choice Items: 'Any' and 'Wh+ever'". The speaker will be Professor Veneeta Dayal.

About the Talk

The distribution and behavior of 'anv' and 'wh+ever' in positive contexts have interesting properties. independently and in relation to each generic/characterizing other. In statements like (1a)-(1b) they are virtually synonymous, suggesting a kind of indiscriminate reading on Bill's part. In episodic contexts, however, they part company: 'any' is unacceptable (1a) while 'wh+ever' is acceptable (1b), under a reading where the identity of the individual books is unknown or irrelevant. 'Any' is generally thought to be licensed by modality, but this is clearly not sufficient, as shown by differences between possibility and necessity modals Finally, 'any' in episodic and necessity modal contexts can redeemed by the presence of a modifier (4a)-(4b). To return to a comparison with 'wh+ever', (5a)-(5b) show that they relate differently to prior discourse - 'wh+ever' but not 'any' is comfortable in anaphoric contexts:

- 1a. Bill reads anything he buys.
- b. Bill reads whatever he buys.
- 2a. * Bill read any books.
- b. Bill read whichever books he'd bought.
- 3a. Bill can read any of these books.
- b. *Bill must read any of these books.
- 4a. Bill read any books that were lying around
- b. Bill must read any books that the teacher recommends.
- 5a. Bill bought some things. Sue liked whatever he bought.
- b. Bill bought some things. ??Sue liked anything he bought.

In this talk Professor Dayal will propose "The IEEE Newsletter" – November 2010 - Page 4 NJ a way to account for the empirical generalizations illustrated above.

About the Speaker

Professor Dayal is with the Department of Linguistics at Rutgers University. Her research interests are in the areas of semantic theory, syntax-semantics interface, south Asian linguistics. Further details about her can be found at http://www.rci.rutgers.edu/~dayal/

Time: 12:30 – 1:30 PM, Wednesday, November 17, 2010.

Place: Burchard Building, Room 430, Stevens Institute of Technology, Hoboken, NJ, http://www.stevens.edu/sit/maps/driving_directions.cfm.

Information: Hong Man, (201) 216-5038, hman@stevens.edu.

NJ IMS:

Global Mains Wiring for Electrical Equipment

On Tuesday, November 30, 2010, the IEEE North Jersey Section of the Instrumentation and Measurement Society (IMS) is hosting a talk entitled, "Global Mains Wiring for Electrical Equipment." The speaker will be Donald Gies.

About the Talk

This talk explores the different methods to connect electrical equipment such as information technology equipment (ITE) to the AC and DC mains in the global marketplace. It describes the difference in AC power systems around the world, demonstrates single-phase and threephase power systems used worldwide, and describes IT power distribution systems, and how to design and test electrical equipment for connecting to IT power distribution systems. Also, this paper discusses the different methods for permanently connecting electrical equipment to the mains in different regions of the world, and how to electrical equipment accommodate the different installation methods.

About the Speaker

Don Gies has been a Product Compliance Engineer for over 23 years. Since 1989, Mr. Gies has worked at AT&T-Bell Laboratories/Lucent Technologies/Alcatel-Lucent as a Product Safety Engineer, responsible for obtaining product safety certifications for his company's telephone and information processing equipment from domestic and international product safety organizations. Mr. Gies has become a leading subject matter expert for his company in the field of global product safety compliance, working primarily with Alcatel-Lucent's

wireless base station equipment. Mr. Gies is a member of the Alcatel-Lucent Technical Academy. Prior to working at AT&T, Mr. Gies was a Tempest Engineer for Honeywell-Signal Analysis Center, where he worked on various secure communications projects for the US Army Communications -Electronics Command. Mr. Gies, a lifelong resident of the Jersey Shore, graduated from Rutgers University - College of Engineering as an Electrical Engineer. He is an iNARTE Certified Product Safety Engineer.

All Welcome!

Free admission. Members and non-members welcome.

Time: 6:30 PM, Tuesday, November 30, 2010. Free buffet will be provided at 6:00 PM.

Place: New Jersey Institute of Technology (NJIT), Room 202, ECE Center (Intersection between Warren & Summit Streets), Newark, NJ. Directions are available at http://www.njit.edu/about/visit/gettingtonjit.php.

Information: Russell C. Pepe, 201-960-6796, rcpepe@ieee.org.

NEWS from IEEE-USA

Special Session on Federal Cybersecurity Research Priorities to Follow IEEE Homeland Security Conference

Washington (29 September 2010) - The federal Networking and Information Technology Research and Development (NITRD) Program will present the strategic directions of U.S. federal cybersecurity research immediately following the 2010 IEEE International Conference on Technologies for Homeland Security (HST 10) in November.

During this special session, senior U.S. government officials will describe R&D themes developed to orient federal cybersecurity research and to stimulate related private sector cybersecurity activities. The themes are: tailored trustworthy spaces, moving target, and cyber economics and incentives. session will provide insights into those priorities and how they are shaping the direction of federal cybersecurity research. Speakers will come from the Office of the Director of National Intelligence, the National Science Foundation and the National Institute of Standards and Technology.

For the full story, see http://www.ieeeusa.org/communications/releases/20 10/092910.asp.

NJ Control Systems Chapter:

Development of a Gait Rehabilitation System

On November 18, 2010, the IEEE NJ Control Systems Chapter will host a presentation titled "Development of a Gait Rehabilitation System." The speaker will be Dr. Zhiming Ji.

About the Talk

The majority of movement problems caused by stroke, spinal cord injury, or aging, require specialized therapies to improve limb functioning. Movement therapy for lower limbs face more challenges than that for upper limbs, because of the critical roles played by the low limbs during standing and walking. Currently, the rehabilitation of walking involves the use of braces or body weight supported treadmill training. Lower extremity braces available today cannot provide the patient the experience of typical movement patterns. Body weight supported treadmill training conducted manually by therapists is very time intensive and costly. A gait training system based on a pair of identical gait generation and mechanical mechanism currently under development will be presented. Due to its closed-loop kinematics and low degree of freedom, this system is much safer to use and allows simpler operation, which helps to increase the duration of training at low cost. With active and passive modes in various actuation schemes, it could enhance gait retraining and orthotic intervention in stroke and other patients in the home and community settings.

About the Speaker

Dr. Zhiming Ji is an Associate Professor in the Department of Mechanical and Industrial Engineering at the New Jersey Institute of Technology. He received his BS degree from the Northeastern University, MS degree from the Southeast University and PhD degree from the Stanford University. Dr. Ji's research interests cover many aspects of Mechanical Design and System Integration.

Time: 6:30 – 8:00 PM, Thursday, November 18, 2010.

Place: New Jersey Institute of Technology (NJIT), Room 202, ECE Center (Intersection between Warren & Summit Streets), Newark, NJ. Directions are available at http://www.njit.edu/about/visit/gettingtonjit.php.

Information: Professor MengChu Zhou, (973) 596-6282, zhou@njit.edu.

2011 Officer Ballot

Instructions for Casting Ballots

Completed ballots should be mailed to the North Jersey Section Newsletter Editor as follows:

Keith Saracinello IEEE North Jersey Section Newsletter Editor 25 Messenger Ln Ringoes, NJ 08551

The ballot MUST be filled out completely with members name, membership number, and signature. The ballots are invalid without this information. Xerox copies of the ballot are acceptable as long as they are filled out completely. Ballots received after December 1, 2010, will not be counted.

acceptable as long as they are filled out completely. E will <u>not</u> be counted.	Ballots received after December 1, 2010
Chairperson: (choose one)	
□ Dr. Naresh Chand	
□(write-in)	
Vice Chairman-1: (choose one)	
□Russell Pepe	
□(write-in)	
Vice Chairman-2: (choose one)	
□(write-in)	
Treasurer: (choose one)	
□Paul Ward	
□(write-in)	
Secretary: (choose one)	
□Dr. MengChu Zhou	
(write-in)	
Members-At-Large: (choose three)	
□Douglas Hines	
□Jignasa Ray	
□. Adriaan J. vanWijngaarten	
□(write-in)	
Member Name	Member No
Signature	_ Date





ATTENTION: IEEE STUDENT BRANCH MEMBERS

Student Branch Leadership Training Workshop

SPONSORED BY:

Region 1 Student Activities Committee

WHAT

The **Student Branch Leadership Training Workshop** is designed to be fun, informative, and interactive; containing information on various aspects of organizing, running, leading, and growing an IEEE Student Branch.

Join your fellow peers for a day of informal networking, idea sharing and growth while enjoying a free a catered meal and snacks throughout the day.

WHEN Saturday, November 6th, 2010 • 9:30am - 5:00pm

WHERE The City College of New York

140 Street and Convent Avenue

Steinman Hall

New York, NY 10031

212-650-7189



http://meetings.vtools.ieee.org/meeting view/list meeting/3303

Note: Refundable Registration Fee of \$20/student is required!



IEEE North Jersey Section Course Introduction to Cisco Networking

November 12, 2010 through December 17, 2010 Six weekly classes (Nov. 12, 19, 26, Dec. 3, 10, 17, 2010) Polaris Microsystems, Inc., 2337 Lemoine Avenue, Fort Lee, NJ (Checks should not be mailed to this address)

The North Jersey Section IEEE offers an evening course entitled "Introduction to Cisco Networking" for practical "hands-on" training using Cisco routers, switches, and Cisco's Packet Tracer to install, configure, operate, troubleshoot, and design small to medium-size networks.

You will receive the IEEE certificate of completion when you finish the course. You may wish to take the CCNA exam from the knowledge and experience you gained in this course. (This is *not an exclusive CCNA examination prep course*. CEU credits would be given by IEEE)

Instructor Dr. Joseph Miao, CCNA, CCNP, CCSP, CCVP, CISSP, has trained and consulted for small to large organizations in networking, security and voice for more than 15 years. In addition, he has developed several commercial database applications.

Topics

- 1. OSI Model
- 2. Assembling and Cabling Cisco Devices
- 3 IP Addressing & Subnetting, VLSM
- 4. Routing with RIP v1&v2, EIGRP, and OSPF
- 5. VLANs, Trunking and Spanning Tree Protocol
- 6. PPP, Frame-Relay, Virtual Private Network
- 7. Access Lists & NAT

WHERE: Polaris Microsystems, Inc. 2337 Lemoine Avenue, Fort Lee, NJ

(Checks **should not** be mailed to this address)

WHEN: Six Fridays, Nov. 12, 19, 26, Dec. 3, 10, 17, 2010, 5:40 – 9:55 PM

COST: IEEE (& affiliate) members \$600; Non-IEEE members \$650

CONTACT: Donald Hsu: yanyou@hotmail.com

REGISTRATION: Introduction to Cisco Networking

Please mail the registration form with the check (Checks payable to "North Jersey Section IEEE") to Donald Hsu, Chair Education Committee, IEEE North Jersey Section, P. O. Box 2093, Fort Lee, NJ, 07024

		Email address:	
□ Non-member□ IEEE Member	Member #:	Member of	technical society
Employer:			
Employer Address:			
Home Address:			
Business (day) tele	ephone #:	Home telephone #:	
Please enclose req	uired fee payable to: North Jersey S	ection IEEE	
As soon as a comp notified by email.	pleted registration form and the paym	ent are received, you are officially registe	ered for this course. Registration status will be
☐ Tuition receipt v	will be mailed only if this box is checke	ed Signature:	