IEEE

the LYNX

April 2011

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www.ieee.org/ocs

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ORANGE COUNTY SECTION

The Chair's Corner:
by Alvin Joseph

Greetings and hope you are looking forward to the spring season.

Thanks to all the members who took the time to write to me last month. It was great hearing from you. IEEE, the world's largest technical professional association, recently announced it reached the 400,000 member mark for the first time in its history. Additionally in 2010, student membership reached 100,000 for the first time. This is evidence of the value that increasing number of members see in IEEE membership.

The IEEE Orange county is also exploring additional ways to offer programs of value to members in Orange County. We are continuing work on rebuilding our website and enhancing our programs line up. We are reviewing ways to improve our collaboration and networking options. I will share more information on this as soon as we kick start some of our new program initiatives. Here is the April Lynx section newsletter with updates on IEEE Orange County section activities and upcoming event information.

This year, we are introducing 2 new awards to recognize the outstanding contributions and accomplishments of IEEE members in Orange County. I strongly encourage you to nominate someone deserving you know for the the **Outstanding Engineer Award or the Outstanding Leadership and Professional Service Award**. Note that these awards winners will also be nominated for IEEE Area/region/National levels. The newsletter and website have more details.

As you know we are a volunteer run organization and volunteers are the lifeline of our programs. Volunteering at IEEE Orange County provides you with networking opportunties and gives you an opportunity to work on projects that can enhance your career skills. It is also a way to give back to the community. If you'd like to volunteer at IEEE Orange County Section, please send me or Dr. Don V. Black (Volunteer Chair) a quick email.

The events in Japan last month has been quite heartbreaking and our hearts go out to the victims of this devastating tragedy. On behalf of the IEEE Orange county section, I'd like to express our deep concern and sympathies to all those impacted by the earthquake, tsunami and nuclear emergency in Japan, especially families, friends and colleagues of our members in the Orange County. Our heartfelt condolences to those who lost loved ones.

As always, feel free to drop me a line at alvin@ieee.org. I'd love to hear from on how the IEEE Orange County section can serve you better.

Alvin Joseph
Chairman, IEEE Orange County Section
www.ieee.org/ocs

The IEEE Orange County Computer Society

Upcoming Events

April 16: Wireless Network-on-Chip (WNoC): Scalable Solution for System-on-Chip (SoC) Designs with 100's of Cores.
Speaker: Dr. Nader Bagherzadeh, University of California, Irvine.
3:30-4:30 p.m., Natural Sciences II 3201

April 25: LTE 3GPP Long Term Evolution, joint with ComSi
Speaker: Dwight Borse
More info: http://occs.ieee.org/

April 29: Lessons for Bio-Inspired Design: Morpho-Dynamics of Embryonic Heart
Speaker: Morteza (Mory) Gharib, Ph.D., California Institute of Technology
3:30-4:30 p.m., Natural Sciences II 3201

May 6: Artificial Retina
Speaker: Mark S. Humayun, M.D., Ph.D., University of Southern California
3:30-4:30 p.m., Natural Sciences II 3201

May 23: Searching for ET: Are we looking in the right place?
Gregory Benford, PhD, Professor of Physics, UCI; Science Fiction Author

June 27
PC Security. RFID Security.
Crytptography,Networks,Public Keys,Privacy,Risk Analysis,Viruses,Worms,Torjans,Trapdoors.
Prof. Burkhard Englert, PhD, Computer Engineering Computer Science, CSU Long Beach

If you'd like your event to be included, please email details to me@sharonforsberg.com

IEEE OC Section @ Southern California Venture Network Monthly Meetings

The Southern California Venture Network (SCVN) meets monthly, on the last Thursday, at various locations in Orange County. The mission of SCVN is to increase the entrepreneurial speed of both start-ups and emerging growth companies, by providing opportunities for entrepreneurs to come into contact with SCVN's network of skilled professionals. Through the courtesy of Mr. Eric L. Tanezaki, SCVN's Executive Director, the IEEE Orange County Section receives a complimentary tabletop

Mr. Mr. Eric L. Tanezaki (L) and Mr. Farhad Mafie (R) at SCVN meeting.

exhibit space and meeting passes, which enable it to showcase its activities, meetings and, most importantly, increase its visibility and membership.

SCVN is a "venture development" organization that focuses on helping companies, with funding in place and revenues in the $1M to $25M range, reach their milestones. For more information on SCVN, please visit: www.scvn.org.

To IEEE Orange County Chapters:

Newsletter Inputs

As we begin a new year of activities, it is fitting to remind OC Chapters of the protocol to get their news items published in the Newsletter. Simply, e-mail your news item to info.at.nanomems-research.com no later than the 15th of the month, prior to the month whose Newsletter you are targeting. For example, if you want the February'09 Newsletter to contain your news item, please, submit it no later than January 15th, 2009. In your e-mail, please, enclose your news item between two lines of "+" characters, i.e.:

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News Item Title

Newsletter content Newsletter content Newsletter content Newsletter content Newsletter content Newsletter content Newsletter content Newsletter content

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Thank you,
Hector J. De Los Santos
IEEE Orange County Section
Newsletter Editor

UC Irvine IEEE Student Chapter Winter Quarter Highlights

CES 2011

UCI IEEE embarked on a journey to Las Vegas, NV in early January to check out the new gadgets emerging at the 2011 Consumer Electronics Show. The students had a first look into the up and coming products from such major companies as Sony, Panasonic, Samsung, LG, ASUS, Nintendo and many more. After our tired bodies finished off at the convention, we met up with the other IEEE student chapters from UCLA, UCSD and USC for a delicious dinner.

Senior Speak out

The student chapter brought together an accomplished panel of EECS students and alumni to talk about their personal engineering experiences at UCI. They provided stories of how they attained research and internship positions, recommendations to underclassmen, and mentioned some of the biggest challenges they have had to overcome at UCI. The event presented priceless advice for the young students seeking motivation and ways to succeed within electrical engineering inside and outside the classroom.

Resume Workshop

UCI IEEE held a Resume Workshop event in which students were given the opportunity to have their resumes critiqued by Human Resources from TowerJazz Semiconductors and Shireesh Verma from IEEE OCS. Sara from TowerJazz included a brief overview of TowerJazz Semiconductors to start the event. Following that Shireesh and Sara provided tips and advice on what hiring managers look for in a resume. Guests and students were served with food from Pat and Oscars and were then proceeded to have their resumes under review by both speakers. This was a great occasion to prepare for the following week's EngiTECH Career Fair.

US Air Force Informational Session

Speaker Crystal Caslin from US Air Force came to hold an information session which includes detailing their technical sponsorship program that is geared towards electrical and computer engineering majors. She spoke of her own personal story, in addition to the joys and benefits of being a part of USAF, of why she enlisted. A recruited representative also spoke on his behalf, his excitement to start his training in a new location.

Derrick Lo
IEEE UCI Student Chapter

IEEE

2011 IEEE Orange County Section Awards Nomination

The IEEE Orange County Section will give a total of two awards this year recognizing the outstanding contributions and accomplishments of IEEE members. These awards winners will also be nominated for Area level or further Region level awards. This package provides an overview of these Orange County Section awards, along with nomination form. The Orange County Section awards of Orange County Section are as follows:

1. Outstanding Engineer Award:

Award is designed to recognize IEEE members of Orange County Section who through their technical abilities have made outstanding contributions to their profession. It recognizes the development of new technical concepts, significant patents, development of new devices, development of applications, new designs, and significant cost reductions using known techniques.

2. Outstanding Leadership and Professional Service Award:

Award is designed to recognize IEEE members of Orange County Section who through their professional and technical abilities have made outstanding and noteworthy contributions to the Institute, their communities, fellow professionals and fellow man. The award is not designed to recognize a single achievement, but rather collective contributions complemented by singular works exemplifying the objectives and attributes of IEEE.

Awards Procedure Guidelines:

Process Overview
The nominations for the awards are submitted directly to Awards Chair. The Awards Chair compiles all the submittals and forward to the Awards Committee to review the nominations and to select the winners.

Awards Committee
The awards committee consists of distinguished scholars and IEEE Fellows

Awards Schedule
Call for Nominations: March 28
Nomination Submittal Deadline: April 23
Awards Recipients Notified April 30
Winners Nominated for Area Awards April 30

Awards Presentation

The Orange County Section Awards are given to the winners at an Awards ceremony during an Annual Orange County Section Luncheon/Dinner. These Orange County Section Awards can also be given at our ExCom meetings in specific cases with special prior arrangements.

Important Notes on Nominations

Nomination Form is to be completed by the nominator (self nominations are also encouraged) and submitted directly to the Awards Chair. Additional long resume or informational document may be submitted at the discretion of the nominator. Supporting information on the nominee is a key ingredient in a successful nomination process. While a fully completed Award nomination form is the base requirement to submit your nominee, the inclusion of summary information (along with the form) allows the section to provide greater depth and detail regarding the nature of their nominee's achievements and contributions. In the nomination form you will find specific mention of supporting items that can be included in your nomination submittal. Contact Information of Awards and Advancement Chairs:

For any questions regarding awards, please contact the Awards Chair or the Orange County Section Awards Coordinator:

Orange County Section Awards Chair
Mr.Russel Hunter
e-Mail: russellk.hunter.at.gmail.com

Orange County Section Awards Coordinator
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Please see website for details:

http://ewh.ieee.org/r6/ocs/index.php?option=com_content&task=view&id=185&Itemid=109

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E-Wk Career fair Held on 24 February, 2011 at CSUF

The IEEE Orange County Section supported and assisted the annual Engineering Week celebrations and activitives at both UCI and CSUF. The Career Fair is one of over a dozen E-WK activities scheduled annually. This year's CSUF ECS Career Fair took place on February 24th with the participation of 28 companies. Among them are Western Digital, Thales Avionics, Emulex, Southern California Edison, Northop Grumman, Q-logic Corporation, Raytheon, L-3 Communications, UST Global, NASA, U.S. Airforce, CIA, NAVAIR etc.

Orange County Computer Society News

Last month the Computer and Communications chapters joined forces to present an overview of how In-Flight Entertainment (IFE) and Communications systems overcome the technical challenges associated with delivering content to individual passengers on board today's commercial airlines. Pierre Schuberth, Manager at Thales Avionics and long-time active attendee and supporter of the Section's OCCS and ComSig programs, presented informative, articulate and entertaining insights into industry standards, development processes, compliance testing, and configuration challenges involved in delivering multimedia entertainment and providing information services and shopping experiences on-board today's modern commercial airlines and private business aircraft. We thank Pierre for his most interesting and informative talk.

On April 25, the two chapters again operate jointly to demystify the latest mobile network technology with a presentation, "What's All This LTE Stuff About?" by Dwight Borses. Continuing his series of occasional programs on wireless technology presented over the last many years, Dwight will reveal why and how we got to the 3GPP's Long Term Evolution technology, which providers offer it, and will peek under-the-hood to learn how it works. The program venue is the DoubleTree Club Hotel, where there is always complimentary self-parking for IEEE events.

Communications and Signal Processing Chapter News

In February, the Communications and Signal Processing Chapter (ComSig) along with EMBS, OCCS and EIT jointly hosted a presentation fon Healthcare IT Standards for Interoperability. Mr. Gora Datta who is the CEO and founder of Cal2Cal corporation and the HL7 International Ambassador did an excellent job covering all aspects of HL7 standards and the global challenges in the Healthcare IT industry. He presented topics tailored to the audience. It was quite interesting to find out about the differences of Health IT needs based on the population age statistics of the developed and less developed nations along with available communications infrastructure. The presentation was very clear and well presented from a seasoned presenter and Ambassador. We thank Mr. Datta for taking time from his busy world wide travel schedule to give us an informative talk.

In March, ComSig supported a joint presentation on In Flight Entertainment with the OCCS chapter. Next month ComSig will be working with OCCS for a presentation on LTE by our own OCCS Chair, Mr. Dwight Borses.

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Job Openings in OC

Optical Engineer

Job Summary:
Company: General Monitors
Location: Lake Forest, CA
Industries: Safety Instrumentation, Oil & Gas, Energy, Others
Job Type: Full Time
Years of Experience: 5+ years experience developing optical systems and products
Education Level: M.S. degree in Optical Science, Electro-optics, Engineering or Physics (Ph.D. preferred)

Overall Responsibility:
Lead the design, development, and testing of optical gas and flame detection systems, including imaging systems.

Requirements:

- Experience with optical modeling programs such as Zemax, TracePro or equivalent
- Experience with infrared imaging preferred – optics, FPAs, cameras, and systems
- Excellent understanding of and strong interests in optical, electro-optical, and imaging technology
- Strong communication (written and verbal) and analytical skills
- Adept at multi-tasking and balancing challenging design requirements

If you meet the above requirements, please send your resume depicting your qualifications to
zainam@generalmonitors.com

We respect, value and welcome diversity in our workforce. General Monitors is proud to be an Equal Employment Opportunity/Affirmative Action Employer (EEO/AA) M/F/D/V.

Senior Electrical Engineer

Job Summary:
Company: General Monitors
Location: Lake Forest, CA
Industries: Safety Instrumentation, Oil & Gas, Energy, Others
Job Type: Full Time
Years of Experience: 10+ years as lead design engineer – analog, digital, and embedded systems
Education Level: BS EE, minimum

Overall Responsibility:
Lead the design, development, and testing of microcontroller-based fire and gas detection systems for the global leader in industrial safety.

Requirements:

- Experience with one or more of the following microcontrollers: Microchip dsPIC30F, TI TMS320F, TI MSP430, Freescale 68HC11
- Experience with one or more of the following communication protocols: 4-20mA analog output, Modbus, HART
- Strong communication (written and verbal) and analytical skills
- Hands-on design engineer
- Adept at working with cross-functional teams

If you meet the above requirements, please send your resume depicting your qualifications to
zainam@generalmonitors.com

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If you or your company has a job to advertise, please send an email to shireesh@ieee.org with a concise description of the job and contact information. Depending on space availability, we will attempt to post the job opening in the IEEE Section newsletter and website.

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IEEE's Orange County Solid-State Circuits Society (SSCS) Present:

Wireless Network-on-Chip (WNoC): Scalable Solution for System-on-Chip (SoC) Designs with 100's of Cores.

By Dr. Nader Bagherzadeh, University of California, Irvine.

Day:	Saturday, April 16, 2011

Time:

Registration & Networking	10:00 a.m. – 10:30 a.m.
Presentation (Dr. Bagherzadeh)	10:30 a.m. – 11:30 a.m.
Q&A and Networking	11:30 a.m. – 11:45 a.m.

Fee: Free for all the IEEE members, students, engineers in transition, technologists, as well as those who are exploring to join IEEE & SSCS in the future.

Space is limited, please RSVP: IEEE.OC.SSCS.RSVP@Gmail.com

Send questions to Farhad Mafie, IEEE-OC SSCS Chairman: FarhadMafie@Gmail.com

Abstract: In this talk an overview of design issues for SoCs based on NoC technology will be discussed. The potential of WNoC design methodology will be presented as one of the solutions to enhance the scalability of NoC. Finally, there will be some projections regarding future strategies for the design of SoCs with 100's of cores.

Dr. Nader Bagherzadeh has been involved in research and development in the areas of computer architecture, reconfigurable computing, VLSI chip design, and computer graphics. For almost ten years ago, he was the first researcher working on the VLSI design of a Very Long Instruction Word (VLIW) processor.   Since then, he has been working on multithreaded superscalars and their application to signal processing and general purpose computing. His current project at UC, Irvine is concerned with the design of coarse grain reconfigurable pixel processors for video applications. The proposed architecture, called MorphoSys, is versatile enough to be used for digital signal processing tasks such as the ones encountered in wireless communications and sonar processing. DARPA and NSF fund the MorphoSys project (total support $1.5 million). Dr. Bagherzadeh was the Chair of Department of Electrical and Computer Engineering in the Henry Samueli School of Engineering at University of California, Irvine. Before joining UC, Irvine, from 1979 to 1984, he was a member of the technical staff (MTS) at AT&T Bell Laboratories, developing the hardware and software components of the next-generation digital switching systems (#5 ESS). Dr. Bagherzadeh holds a Ph.D. in computer engineering from The University of Texas at Austin. As a Professor, he has published more than a hundred articles in peer-reviewed journals and conference papers in areas such as advanced computer architecture, system software techniques, and high performance algorithms. He has trained hundreds of students who have assumed key positions in software and computer systems design companies in the past twelve years. He has been a Principal Investigator (PI) or Co-PI on more than $2.5 million worth of research grants for developing next-generation computer systems for solving computationally intensive applications related to signal and image processing.

Address & Information:	Knobbe Martens, 2040 Main St., Irvine, CA. (Free parking on Saturday)
SPECIAL THANKS TO Knobbe Martens INTELLECTUAL PROPERTY LAW **FOR SPONSORING & HOSTING THIS EVENT!**	Knobbe Martens Building, 2040 Main St., Irvine 92614, Knobbe Conference Center on the second floor. For Directions and Maps see the KMOB web site at http://www.kmob.com/offices_irvine_map.htm#map. The building entrance and parking structure are on the back side of the building. Follow signs to the 2040 entrance (there is no parking on Main St.). For GPS or Google Map junkies, the GPS coordinates are 33.682383, -117.852565.

The Third IEEE International Games Innovation Conference

November 2 – 4, 2011

**One University Drive, Chapman University
Orange, California, 92866 USA
(In the neighborhood of Disneyland)**

Preliminary Call for Papers
IGIC 2011 http://ice-gic.ieee-cesoc.org

The IEEE Consumer Electronics Society is pleased to announce the Third International Games Innovation Conference (IGIC 2011). Continuing the tradition that began in London 2009, and in Hong Kong 2010, this conference aims to be a platform for disseminating peer-reviewed papers, state-of-the-art demonstrations and special sessions that describe innovative research and development of hardware and software game technologies. Participation from industry, academia and government are welcome.

Submissions: Authors are invited to submit two page papers that describe significant, original, and previously unpublished work. The initial submissions can be extended abstracts that include diagrams of ideas and early results from preliminary research and development. All papers will be refereed for presentation and publication on the basis of their relevance, technical soundness, novelty, clarity, and overall scientific or engineering contribution. At least one author must attend the conference in person to present the accepted paper for it to be included in the Conference Proceedings, IEEE Xplore and Engineering Index. Full papers may be submitted to the CE Transactions, after the conference. These papers must comply with the requirements of the CE Transactions.

Papers reporting innovations and new developments in all areas related to games are invited, including but not limited to those listed below:

Industry Track: New this year is the opportunity (primarily for presentation with less focus on full-paper publication)

Multi-player Games
Cloud based games
Networked games
Location awareness
Infrastructure
Performance
Latency
Architecture
Security

Platforms
Mobile/handheld
Computers
Consoles
Portable consoles
Cloud servers
Network severs
System architecture
Network architecture

Development and Production
Design of games
Tools
Software-Hardware inter-dependence
Graphics
Animation
Content generation
Artificial intelligence
Cinematography

Interfaces
Interoperability
Wearable devices
Biometrics
3D effects
Haptics
Gaze
Proximity
Audio
Gesture

Beyond Entertainment
Health/exercise
Education
Training
Business
Advertising
Social Change
Usability beyond games

Technology
Multi-core processors
Mobile SoC
Memory
3D Display
3D Graphics
Augmented reality
Virtual reality
Game mechanics Storage
Vision/imaging
Wireless/RF
MEMS/Nano devices

User Experience
Playing experience
Behavioral impact
Social impact
Player modeling
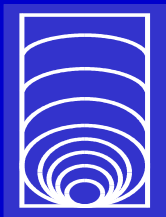Learning
Cultural impact
Lessons from games

to submit two page papers pointing out real-life design and technology challenges that should be addressed in the short-to-medium term.

Special Sessions: Panels, Workshops and Tutorials: IGIC 2011 is also planning for interactive sessions (120 minutes each) in the forms of panel discussions, workshops and tutorials, focusing on the latest development in game technology including hardware, software, content development and demonstrations. Topics of discussions on future issues, especially related to innovation in game technology, are welcome.

**For full details visit:
http://ice-gic.ieee-cesoc.org/2011/index.htm**

RFIC 2011

2011 IEEE Radio Frequency Integrated Circuits Symposium

Baltimore Convention Center
Baltimore, MD, USA
Sunday, June 5th, 2011 – Tuesday, June 7th, 2011

Topics related to original work in RFIC design, system engineering, system simulation, design methodology, RFIC circuits, fabrication, testing and packaging to support RF applications in areas such as: Cellular System ICs, Wireless Data System ICs, Wideband System ICs, Silicon mm-Wave ICs, Small-Signal Circuits, Large-Signal Circuits, Frequency Generation Circuits, RFIC Device Technologies, RFIC Testing, RFIC Modeling and CAD.

Image Courtesy of Ed Niehenke

Plenary Speakers
Dr. Samuel Sheng, Telegent Systems
"RF Coexistence – Challenges and Opportunities."

Mr. Ron Ruebusch, Avago Technologies
"3G to 4G Transition – Challenges and Opportunities."

Technical papers will be presented during oral sessions throughout Monday and Tuesday. There will be a total of 130 papers presented in 23 technical focused sessions. The technical program will conclude with the Interactive Forum session on Tuesday afternoon, which will feature 31 poster papers and the chance to speak directly with authors regarding their work.

Workshops (Sunday):
Introduction to GaN MMIC Design
Advancements and Challenges toward Radio-in-Package and Radio-on-Chip
Imaging at mm-Wave and Beyond
RF Bio-Medical Electronics and Sensors
Re-configurability Requirements for Multi-Standard Low-Power Operation
Advancements in Linear Power Amplifiers for Cellular Infrastructure
EMI Compliant Product Design Practices: Interference Analysis, Floor Planning, Grounding Strategies, Chip-Package-Board Co-Design

New Architectures for Digitized Receivers
Design for Manufacturability and Self-Testability of RFICs
Systems & Circuits for Sensing, Co-Existence, and Interference Mitigation in SDR and Cognitive Radios
Efficiency Enhancement Techniques of Power Amplifiers and Transmitters for Mobile Applications

Panels (Monday & Tuesday):
Software Defined Radios - Facts and Fantasies
What is the limit of multi-radio integration … or rather, is it 'disintegration'?

Short Courses (sponsored by IMS):
Techniques and Realizations of Microwave and RF Filters
Nonlinear Dynamics and Stability Analysis/Design of Microwave Circuits

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Technical Program:

Standards Development and Committee Meetings – Monday May 2nd

The Industrial and Commercial Power Systems Department (I&CPS) of the IEEE Industry Applications Society sponsors many IEEE standards and recommended practices. The most notable are the IEEE Color Books, which are in the process of being updated and reorganized into a comprehensive set of individual standards. Each of the Working Groups revising one or more of the IEEE Color Books meet and discuss the current revision, plan future progress and resolve technical issues related to the recommendations made in the document. Participate in the standards development process and work side by side with many of the technical experts from the engineering community.

Technical Paper Presentations – Tuesday and Wednesday May 3rd and 4th

Technical Papers are presented that treat practical application issues in the general areas of industrial and commercial power distribution system design, protection, energy, on-site generation, codes and standards, power quality, maintenance and safety, and related subjects. A total of thirty technical papers are presented in the two day period. See the conference website for abstracts on the papers to be presented this year at http://sites.ieee.org/icps2011/technical-programs/technical-papers/

Tutorial Presentations – Thursday May 5th

There are four half-day tutorials which will be presented; Tutorials 1 & 2 will be presented in the morning and Tutorials 3 & 4 will be presented in the afternoon. See conference website for details at http://sites.ieee.org/icps2011/technical-programs/tutorials/

Tutorial 1: MV Transformer Failure Due to Circuit Breaker Induced Switching Transients
Tutorial 2: Electrical Systems Switching Procedures Considerations in Safety, Reliability and Software Applications
Tutorial 3: Grounding and Ground Fault Protection of Medium Voltage Industrial Generators
Tutorial 4: Fundamentals of Micro-Processor Based Relay Protection

Conference Venue:

This year the I&CPS Conference is being held in beautiful Newport Beach, CA at the Hyatt Regency. A block of rooms are available at the special conference rate of **$145 per night**, first come first serve.

Conference and Hotel Registration:

See the conference website http://sites.ieee.org/icps2011/ and follow the links for both hotel and conference registration. Register on or before April 10th and take advantage of reduced rates.

2011 IEEE Orange County Section — Executive Committee

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