The IEEE Latin America and the Caribbean Magazine

# noticieero

Volume 28, Number 1, January/February 2016 [99] ISSN 2157-8354
English | Portuguese | Spanish

#99

## Mensaje del nuevo Director Regional

## Nuevo Comité Regional 2016-2017

## Hacking Medicine Ecuador

## Trinidad & Tobago celebra su décimo aniversario!

IEEE
Advancing Technology for Humanity

noticieeero
The IEEE Latin America and the Caribbean Magazine
Volume 28, Number 1, January/February 2016 [99] ISSN 2157-8354
#99




NoticIEEEro (ISSN 2157-8354) es una publicación bimestral de la Región 9 del IEEE, América Latina y el Caribe, que se distribuye a toda su membrecía en formato digital y se encuentra disponible para toda la comunidad en www.ieee.org/r9. Los idiomas oficiales de la publicación son inglés, portugués y español (castellano). El contenido de los artículos publicados es responsabilidad de los autores y no compromete al IEEE. Esta obra se publicó en el mes de abril de 2014.

Citar artículos en esta edición del NoticIEEEro como: "IEEE NoticIEEEro, nombre del artículo, Volume 28, Number 1, January/February 2016 [99], pp-xx".

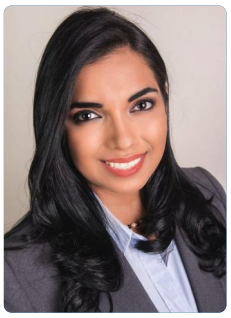


**Cover Photo**: Binoculars. https://brandspace.deloitte.com/file/download/id/7653

noticieeero The IEEE Latin America and the Caribbean Magazine
Volume 28, Number 1, January/February 2016 [99] ISSN 2157-8354

#99

## Contents/Contenido/Conteúdo



# Nuevos retos para el 2016

*Diana Vera S.* - Editor-in-Chief
*diana.vera@ieee.org*

***Con esta edición iniciamos un nuevo ciclo del NoticIEEEro y damos la bienvenida al nuevo Comité Regional.***

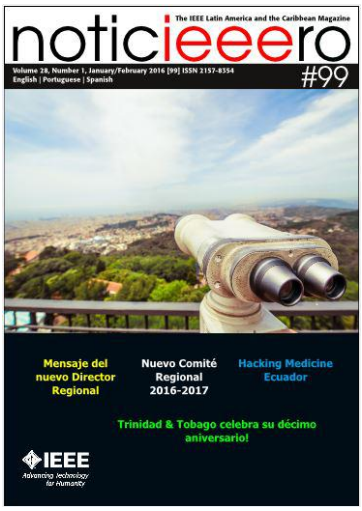
Estimado Lector:

Es un placer para mi poder dirigirme a usted a través de este espacio. Permítame presentarle una nueva edición de la revista oficial de la Región 9.

En esta edición, el NoticIEEEro presenta al nuevo Comité Regional, las actividades profesionales de la Región y las invitaciones a los próximos eventos técnicos de Latinoamérica.

En este año de aniversario en la Región 9, lo invitamos a que sea parte activa del NoticIEEEro, que contribuya compartiendo su conocimiento, experiencia y voluntariado a través de la preparación de artículos para nuestra revista, para que todos los Miembros de la Región conozcan lo que se hace en la Región 9 del IEEE.

Agradecemos especialmente a Salomón Herrera, Past Editor-in-Chief por las excelentes ediciones de la Revista y su sobresaliente voluntariado en la Región.




**noticieeero@ieee.org**

Mantenga el contacto con el noticieeero en:

noticieeero

# Mensaje del Director Regional 2016-2017

Antonio Ferreira - IEEE R9 – Director Regional 2016-2017
*antonio.ferreira@ieee.org*

**********
English
**********

Dear IEEE Region 9 colleagues,

As I start my term as IEEE Region 9 Director, I would like to reinforce that it will be an honor and a privilege to serve our community.

I am looking forward to an exciting 2016, when I hope we will be able to celebrate our 50th Anniversary continuing to be essential to our Region technical community and professionals.

There is a period of over three years between the time our name is presented to the Region N&A and we actually start serving as Director. At that time, my statements were that I would:

- Reach out for the Sections in order to better understand the member needs.
- Identify successful local practices and ideas and socialize them.
- Continue supporting young members in their leadership and technical development.
- Work with regional committees in order to access how to better use IEEE products and programs.
- Stimulate joint activities of sections and young members with both technical and humanitarian focus.
- Promote volunteer training to help them accomplish their jobs and to help Sections engage more volunteers.
- Work towards enhancing links with government, industry, academia and local professional associations.

I still think these are actions that will help the development of our Region, and better prepare us to fulfill IEEE's core purpose which is ***to foster technological innovation and excellence for the benefit of humanity*** and I am still committed to work on these points.

Our Region has a tradition of dedicated and bright volunteers and leaders. I have had the privilege of serving under the leadership of several of them and I hope I will be able to follow their example.

Our success depends on the hard work of our volunteers specially those at Section level. In Region 9 website you will find the roster of the Regional Committee that will be working with me. I would like to thank each one of them for accepting the invitation, and challenge, to serve in the Region 9 Committee. I am sure that we will have experienced and committed volunteers that will ensure that we will continue the development our Region has experienced lately.

One of my main functions will be to help you with your plans so do not hesitate to contact me or any committee member.

I am looking forward to working with you.

Best regards,

Antonio C Ferreira, Ph.D.

IEEE Region 9, Director 2016-2017

**********
Español
**********

Estimados colegas de la Región 9 de IEEE,

Al inicio de mi mandato como Director de IEEE Región 9, me gustaría reforzar que será un honor y un privilegio servir a nuestra comunidad.

Espero un año 2016 emocionante, en que vamos a celebrar nuestro 50 aniversario siendo esencial para la comunidad técnica y profesional de nuestra Región.

Hay un período de poco más de tres años entre que presentamos nuestro nombre al Comité Regional de Nominaciones y asumimos las funciones de Director.

En ese momento, mis declaraciones fueron que haría lo siguiente:

- Contactar a las Secciones con el fin de comprender mejor las necesidades de los miembros.
- Identificar las prácticas e ideas locales exitosas y socializarlas entre los voluntarios.
- Continuar apoyando a los miembros jóvenes en su desarrollo técnico y su liderazgo.
- Trabajar con los comités regionales a fin de determinar la mejor manera de utilizar los productos y programas desarrollados por el IEEE.
- Fomentar actividades conjuntas con enfoque técnico y humanitario, entre Secciones y miembros jóvenes.
- Promover la formación de voluntarios para ayudarlos a hacer su trabajo y para ayudar a las Secciones a involucrar más voluntarios.
- Trabajar para fortalecer los vínculos con el gobierno, la industria, la academia y las asociaciones profesionales locales.

Sigo pensando que se estas son acciones que ayudan al desarrollo de nuestra Región y nos preparan mejor para cumplir con el objetivo principal del IEEE, que es ***promover la innovación tecnológica y la excelencia en beneficio de la humanidad*** y aún estoy comprometido a trabajar sobre estos puntos.

Nuestra Región tiene una tradición de voluntarios y líderes dedicados y brillantes. He tenido el privilegio de servir bajo el liderazgo de varios de ellos y espero ser capaz de seguir su ejemplo.

Nuestro éxito depende de la ardua labor de nuestros voluntarios, especialmente aquellos a nivel de Sección. En el sitio web de la Región 9 encontrarán la lista del Comité Regional que va a trabajar conmigo. Me gustaría dar las gracias a cada uno de ellos por haber aceptado la invitación y el desafío para servir en el Comité Regional. Estoy seguro de que tendremos voluntarios experimentados y comprometidos que asegurarán que vamos a mantener el desarrollo que nuestra Región ha experimentado últimamente.

Una de mis principales funciones será apoyarlos con sus planes, así que no duden en ponerse en contacto conmigo o con cualquier miembro del Comité.

Un abrazo,

Antonio C. Ferreira, Ph.D.

IEEE Region 9, Director 2016-2017

**********

Português

**********

Dear IEEE Region 9 colleagues,

Ao começar meu period como Diretor da Região 9 do IEEE, eu gostaria de reforçar que será uma honra e um privilégio servir à nossa comunidade.

Estou ansioso para um excitante ano de 2016, quando iremos celebrar nosso Aniversário de 50 anos continuando a ser essencial para a comunidade técnica e profissional da nossa Região.

Há um período de pouco mais de três anos entre termos nosso nome apresentado ao Comitê de Nomeações Regional e assumirmos as funções de Diretor. Naquela época, indiquei que eu iria:

- Contatar as Seções a fim de compreender melhor as necessidades dos membros.
- Identificar práticas e ideias locais de sucesso e socializá-las entre os voluntários.
- Continuar a apoiar os membros jovens em seu desenvolvimento técnico e de liderança.
- Trabalhar com os comitês regionais de forma a identificar como melhor utilizar os produtos e programas desenvolvidos pelo IEEE.
- Estimular atividades conjuntas, com foco técnico e humanitário, entre Seções e os membros jovens.
- Promover o treinamento dos voluntários para auxiliá-los a realizar seus trabalhos e para ajudar as Seções a envolverem mais voluntários.
- Trabalhar no sentido de reforçar as ligações com governo, indústria, academia e associações profissionais locais.

Eu ainda penso que essas são ações que ajudarão o desenvolvimento da nossa Região e irão nos preparar melhor para cumprir o propósito principal do IEEE que é o de ***promover a inovação tecnológica e excelência para o benefício da humanidade*** e ainda estou comprometido a trabalhar sobre esses pontos.

Nossa Região tem uma tradição de voluntários e líderes dedicados e brilhantes. Eu tive o privilégio de servir sob a liderança de vários deles e espero ser capaz de seguir o seu exemplo.

Nosso sucesso depende do trabalho dedicado de nossos voluntários, especialmente aqueles a nível de Seção . No sítio da Região 9 você encontrará a lista do Comité Regional que vai trabalhar comigo. Eu gostaria de agradecer a cada um deles por aceitar o convite e desafio para servir no Comitê Regional. Estou certo de que teremos voluntários compromissados e experientes, que irão garantir a continuidade do desenvolvimento que nossa Região tem experimentado ultimamente.

Uma das mnhas principais funções será apoiá-los em seus planos, por isso não hesite em contactar-me ou a qualquer membro do Comitê Regional.

Um abraço,

Antonio C Ferreira, Ph.D.

IEEE Region 9, Diretor 2016-2017

# Aniversario #50 de la Región 9

Este año la Región 9 está celebrando 50 años de su creación, para eso, el logo de la Región se ha modificado para agregar las palabras conmmemorativas al aniversario.

Invitamos a los lectores a usar el logo en sus correos, páginas web, y todas las actividades técnicas o sociales de sus Secciones o Ramas Estudiantiles. Pueden descargarlo en el siguiente link: http://sites.ieee.org/r9/region-9/logo-regional/

Para mayor información acerca de la celebración de los 50 años y la Historia de la Región, contactar a Francisco Martínez - R9 Histoy Committee Chair.

# The impact of the IEEE on Everyday life

*Wayne Richard Small* - Chair | 2016 – 2017 - IEEE Trinidad and Tobago Section
*Wayne.R.Small@ieee.org*

***The electronic alarm rings to wake you up at 5am. It's Monday again.***

You reach to take the alarm off. Simultaneously, the television switches on automatically to the Morning News which you pre-programmed it to do. You get up, turn off the air conditioning unit with the remote, and head for the bathroom. You turn on the tap to brush your teeth with your electric toothbrush, and don't even notice the sound of the pump singing in the background providing you with the required water pressure.

You jump into the shower, and sigh in relief under the warm shower, the thermostat on the water heater set just right to wake your body up and allow you to face another day at work. You don't even think about the water heater as you have become so accustomed to it being part of your daily life.

You finish the shower, and maybe blow dry your hair with your blow-dryer plugged in to that different electrical outfit with the red button that you've never bothered to ask about, and get dressed for work.

Your landline phone rings. It's mom telling you 'Good morning' and reminding you to say your prayers before heading off to work.

You reach for your cell phone to see what messages you have missed while you were asleep. You notice both text messages, and instant messages, and start responding while walking to the kitchen. You switch on the percolator to brew a cup of coffee, and stick the leftover sandwich from last night into the microwave for breakfast this morning. You open the refrigerator and take out a miniature yogurt to snack on.

You pick up the tablet to read the morning newspaper, and access your email, both personal and work to see what to expect when you get into work today. Again, you don't pay attention to the number of bars on your tablet, as you take it for granted that your wifi works.

Your cell phone rings, and your ride to work calls to say that they shall be there in ten minutes. He/she sends a picture of the new fitness gear band on their wrist. You can't wait to see the gadget in person.

Your ride arrives, you grab your laptop case and you jump in the car, bump fists, and listen to the jokes on the car radio, while catching up on what you both did on the weekend.

By 6 am you would have interacted with products around the home, made up of electronic and electrical hardware and software, that would have been manufactured according to over 100 standards set by the Institute of Electrical and Electronic Engineers Standards Association.

The Institute of Electrical and Electronics Engineers Standards Association (IEEE-SA) is an organisation within IEEE that develops global standards in a broad range of industries, including: power and energy, computer science, industry automation, home automation, telecommunications, transportation and many more. These standards drive the functionality, capabilities and interoperability of a wide range of products and services that transform the way people live, work and communicate.

Today the IEEE SA is working on setting standards for the next generation technology. These include smart cars, smart cities, autonomous vehicles, solar technology, green buildings, GPS mapping and directions, just to name a few.

IEEE-SA has developed standards for over a century, through a program that offers balance, openness, consensus, and fair procedures. Technical experts from all over the world participate in the development of these IEEE Standards.

IEEE-SA is not a body formally authorised by any government, but rather a community working on Advancing Technology for Humanity, which is the IEEE motto.

Imagine daily living without the impact of the IEEE.

# IEEE-EMBS-MIT Hacking Medicine Ecuador 2015

*Jorge Alfredo Uquillas* - Chair 2015 - EMBS Ecuador
*jorge.uquillas.phd@ieee.org*

*Alberto Sanchez* - Chair 2015 - IEEE Ecuador Section
*aesanchez@ieee.org*

It is with great joy that we write this short report about the first Hacking Medicine Ecuador 2015 event organized by IEEE-Ecuador, EMBS-Ecuador, Universidad San Francisco de Quito (USFQ), MIT Hacking Medicine, and Hospital de los Valles. The event took place at Hospital de los Valles on December 12 and 13, 2015. During 48 hours students, medical professionals, entrepreneurs, and innovators worked on several medical projects with the potential to be developed in hospital and rural clinics in Ecuador. The objective was to develop in-house, cost-effective, safe, and effective medical technology to mitigate some of the medical needs in the Ecuadorian health landscape. IEEE and EMBS Ecuador, and the support of the R9 ExDirectores fund financed the Hacking event.

The leadership of Mr. Joao Ribas and Ms. Tatyana Gubin represented MIT Hacking Medicine. Both medicine hackers run the event and helped to mentor the teams that participated in the event. This is the first time that MIT Hacking Medicine organizes an event in Latin America. About 15 companies have been developed under the tutelage of MIT Hacking Medicine, with funding of about $100 million dollars.

For this event, we sent out open invitations to medical doctors, engineers, students, medical personnel, and patients with their families. One of our main intentions was to reach out to the patients and hear their problems to find an effective and cheap medical solution. From the pre-registration list, we selected 42 participants from different universities in the country who were distributed in seven six-member teams. Eight professors and medical innovation experts mentored all these teams. The motto of the event was "break it up, build it up, make it better", and clearly all the teams honored this principle.

The Hacking Medicine event was truly multidisciplinary, and showed the participants that it was possible to develop local medical technology. For example, the team that was awarded the third place (see wining teams below) received inspiration from one of its members: a mother with two children suffering of lazy eye (hypermetropia). Upon her arrival, she never thought that her needs were going to echo among medical personnel and engineers, but they did. Now, this mother is part of a technical team who is developing an instrument that can improve the life style not only of her children, but also of hundreds of children in the country suffering the medical condition.


*Alberto Sánchez (left, President of IEEE Ecuador), Carlos Montúfar (Chancellor, USFQ), Taytana Gubin (MIT), Joao Ribas (MIT), and Michael Valdivieso (right, President of USFQ's Student Body)*

The wining teams were:

1. First place: team Velas (Sebastián Romero, Esteban Garcés, Fátima Atencia, Andrés Erazo, Javier Poveda and Santiago Aguiar) who developed an interactive glove using Morse and artificial intelligence (AI) technology to aid in the communication of deaf people with their surroundings.
2. Second place: team Sepsistick (Luis Eguiguren, Estela Arteaga, Fernando Jácome, María Belén Álvarez, and Darwin) who developed a portable and low-cost system to diagnose neonatal sepsis, in order reduce newborn mortality.
3. Third place: team Eyerehab (Marco Ochoa, Edy Alemán, Daniel Vinueza, Alicia Carabalí, Susana Valencia, Esteban Proaño, and Henry Loachamín) who developed a set of smart glasses for lazy eye treatment.


*Alberto Sánchez (left, President of IEEE Ecuador), Enrique Terán (Professor, USFQ School of Medicine), Diego Benítez (Professor, USFQ School of Electrical Engineering), Joao Ribas (MIT), and Jorge Alfredo Uquillas (right, Chair EMBS Ecuador)*

The awards for the wining teams were:

**First prize:**

a. Follow-up and entrepreneurial assessment by the MIT Hacking Medicine organization

b. Scientific article presentation at the 2016 IEEE Ecuador Technical Chapters Meeting (ETCM), which will be held on October 12-14, 2016.

c. Seed funding for the amount of $300 with the chance to obtain up to $2100 more once the team presents a prototype to IEEE and EMBS Ecuador in March 2016, and once the team presents a commercial plan for the formation of a start-up company.

d. Opportunity to develop this medical technology in the Medical System of Hospitals and Clinics at USFQ.

e. Assessment and support from the Patents Office at USFQ.

*Hacking Medicine Ecuador 2015 participants listening to hacking instructions delivered by Tatyana Gubin.*

**Second prize**

a. Seed funding for the amount of $300 with the chance to obtain up to $2100 more once the team presents a prototype to IEEE and EMBS Ecuador in March 2016, and once the team presents a commercial plan for the formation of a start-up company.

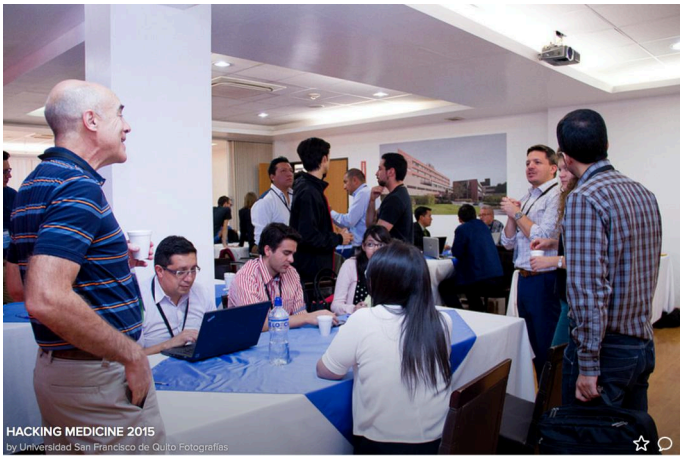
b. Scientific article presentation at the 2016 IEEE Ecuador Technical Chapters Meeting (ETCM), which will be held on October 12-14, 2016.

**Third prize:**

c. Seed funding for the amount of $300 with the chance to obtain up to $2100 more once the team presents a prototype to IEEE and EMBS Ecuador in March 2016, and once the team presents a commercial plan for the formation of a start-up company.

We are already thinking about the next Hacking Medicine that will take place late 2016. The event has had good acceptance among the medical community. We expect more visibility of this new way of developing medical technology in Ecuador once the prototypes are presented this upcoming in March.

More photograpies of the event can be found here: https://www.flickr.com/photos/usfq1/sets/72157660096433844/




*Luis Eguiguren (left, Professor USFQ School of Medicine and Sepsistick team member), Fernando Jácome (Sepsistick team member), Marco Ochoa (Eyerehab team member), and Jorge Alfredo Uquillas (right, Chair EMBS Ecuador and MIT Hacking Medicine mentor)*


# ICEDEG 2016 - 3RD INTERNATIONAL CONFERENCE ON eDemocracy & eGovernment

**30 MARCH - 01 APRIL 2016**

## CALL FOR PAPERS

**FULL PAPER (Extended):**
November 30TH, 2015

**NOTIFICATION:**
JANUARY 15TH, 2016

**CAMERA-READY:**
FEBRUARY 15TH, 2016

## About the ICEDEG

The Third International Conference on e-Democracy & e-Government (ICEDEG 2016) addresses the main issues of web-based knowledge management for society and science. It covers technical and non-technical aspects of eSociety, eGovernance, eParticipation, eDemocracy, eGovernment and eHealth, among others. Representatives of the governments, international organizations and universities of Latin America are called to develop a vision for eCollaboration, eDemocracy, and eGovernment. The main objective is to discuss the regions's transition to an information and knowledge society that will accelerate and enhance regional economic, social, cultural and technological development and exchange.

## CALL FOR TUTORIAL PROPOSALS

**PROPOSAL:**
NOVEMBER 30TH, 2015

**NOTIFICATION:**
DECEMBER 15TH, 2015

## CONTACTS

For general information about the conference/ tutorials/ sponsorship, including registration, please contact us at:

info@edem-egov.org
+41 26 300 83 55
+41 26 300 97 26
Boulevard de Pérolles 90,1700 Fribourg, Switzerland

## REGISTRATION ICEDEG 2016

https://edem-egov.org/ICEDEG-2016/registration

## FOR PAYMENT INFORMATION

congresos@innovativa-espe.edu.ec

## CONFERENCE VENUE

Universidad de las Fuerzas Armadas (ESPE)
Address: Av. General Rumiñahui S/N, Sector Santa Clara - Valle de los Chillos Sangolquí - Ecuador
Phone:(593) 02-23989400
Fax: (593) 02- 2334 952

**Technically Co-Sponsored by**

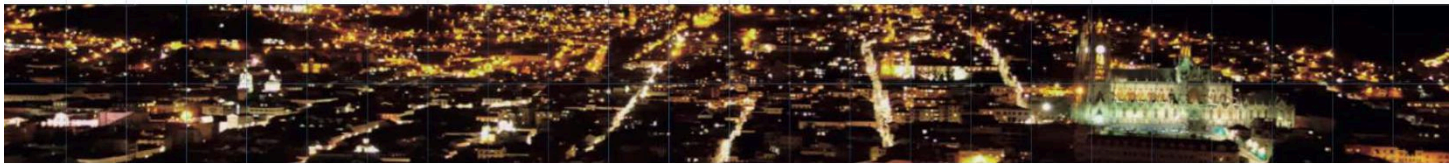
IEEE R9 · IEEE computer society · STC eGOV

**Organizers**

ESPE · ESPE-InnOvativa EMPRESA PÚBLICA · Secretaría de Educación Superior, Ciencia, Tecnología e Innovación · udla · UNI FR Université de Fribourg Universität Freiburg · FLACSO Ecuador · Instituto de Altos Estudios Nacionales

**Supporters**

Departament d'Enginyeria [D∑IM] Informàtica i Matemàtiques · u b Universität Bern · OUI IOHE · COLAM Collège des Amériques · College of the Americas · Colegio de las Américas · Colégio das Américas · Universitat d'Alacant Universidad de Alicante · Ciudad del Conocimiento yachay · AMARUN



## Chairs of Councils in Region 9 | Presidentes de Consejos en la Región 9

| | |
|---|---|
| Andino | José David Celi |
| Brasil | Walter Issamu Suemitsu |
| CAPANA | Jaqueline Mejía |
| Cono Sur | Juan José Encina |
| México | Francisco Ponce |

## Chairs of Sections in Region 9 | Presidentes de Secciones en la Región 9

| | |
|---|---|
| Aguascalientes | Gabriel Suarez |
| Argentina | Marcelo Doallo |
| Bahia | Thiago Barbosa |
| Bolivia | Rudy Guaraz Villegas |
| Centro Occidente | Juan Carlos Olivares |
| Centro-Norte | Ricardo Jacobi |
| Chile | Rodrigo Palma |
| Colombia | Lorena García |
| Costa Rica | Raul Sequeira |
| Ecuador | Carlos Monsalve |
| El Salvador | Armando Moisa |
| Guadalajara | Diana Valadez |
| Guanajuato | Javier Magaña |
| Guatemala | Herman Juarez |
| Honduras | Gina Houghton |
| Mexico | René Trejo Orduña |
| Minas Gerais | Abilio Variz |
| Monterrey | Sergio Camacho |
| Morelos | Julio Hernández |
| Nicaragua | Mario Aleman |
| Panama | Jose Correa |
| Paraguay | Juan Encina Cabrera |
| Peru | José Durán Talledo |
| Puebla | Germán Muñoz |
| Puerto Rico y Caribe | Luis Tatis |
| Queretaro | Juvenal Rodriguez Resendiz |
| Rio de Janeiro | Tatiana Mariano Lessa |
| South Brasil | Guiou Kobayashi |
| Trinidad y Tobago | Wayne Richard Small |
| Uruguay | Rafael Sotelo |
| Venezuela | TBD |
| Veracruz | Luciano Gonzalez |
| Western Puerto Rico | Hector Peña |

TRANSMISSION & DISTRIBUTION LATIN AMERICA

IEEE SECCIÓN CENTRO OCCIDENTE

IEEE PES Power & Energy Society

The 8th edition of the IEEE/PES Transmission and Distribution Conference and Exposition Latin America (PES T&D LA) will be held in Morelia, Mexico on September 21-24, 2016. The IEEE/PES T&D LA is the Latin America region's premier technical event and industrial exposition about T&D Systems. The conference will include presentations of recognized worldwide experts, technical papers, discussion panels, and tutorial courses along with an industrial exposition. The conference will focus on the current state of the art and lessons learned from techniques and practices developed by leading international companies and utilities. Morelia city, UNESCO "Cultural Patrimony of Humanity", has a rich cultural life inherited over time since the colonial era. All this will provide the right environment to foster interactions, which surely will lead to future collaborations. We invite you to join us in Morelia on September 21-24, 2016 as we look at "**Creating the best future practices in T&D systems by participating now**"

# Call for papers

The Organizing Committee of the 2016 PES Transmission & Distribution Conference and Exposition (T&D-LA 2016) invites students, researchers and practitioners worldwide to submit full papers for consideration to be presented at the conference. The technical committee will assign oral presentations to the accepted papers. **All the papers PRESENTED at the conference will be submitted to IEEExplore for worldwide exposure**.

**Deadlines**:

- ~~**March 8, 2016**~~ Extended to April 11, 2016: Full paper submission.
- **May 8, 2016**: Acceptance/Rejection Notification.
- **June 8, 2016**: Final revised paper submission & Authors Registration

Submissions are solicited, but not limited to, in the following areas of interest:

- Real-time system modeling, simulation and analysis.
- Advanced techniques of decision making and optimization
- Real-time monitoring and emergency control
- Next generation EMS/DMS system, data management, and system planning
- Advanced metering infrastructures and situational awareness
- HVDC and flexible transmission systems
- Big data management and utilization
- Distribution automation
- Electricity markets design and regulatory issues
- Forecasting and simulation techniques for variable resources
- Cyber, physical and system security for smart grids
- Big data management and utilization
- Operation and control challenges associated with the integration of renewable energy sources and electric vehicles (EV)
- Power system control and protection technologies and methodologies

**Activities**: Conferences, Special sessions, Oral presentations, Industrial exhibition, Social and cultural events.

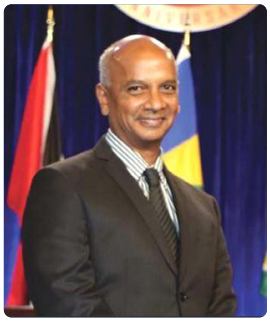
**Paper submission**: All papers are limited to 6 pages and have to be submitted in PDF format using easychair for the reviewing process and the IEEE templates found at

http://www.ieee.org/conferences_events/conferences/publishing/templates.html

**Venue:** Best Western Plus, Gran Hotel Morelia, Mich. México

**Further information:** http://ieee-tdla16.org (contacto@ieee-tdla16.org)

CFE COMISIÓN FEDERAL DE ELECTRICIDAD



# The Mission of the Joint Computer and Communications Society

*Dr. Patrick Hosein* - Joint Computer and Communications Society Chair | 2014 – 2015 - IEEE Trinidad and Tobago Section
*patrick.hosein@sta.uwi.edu*

The Joint Computer and Communications Society (JCCS) covers two important technology areas, namely Computer Science and Communications Systems. It is therefore a very active Society and organizes several events per year on topics of interest to the public. Most people are familiar with the term Information and Communications Technology (ICT), which is typically used in the media to refer to any technology in this field. However ICT deals primarily with the practical aspects of Computers and Communications. Since ICT is more applicable to issues dealt with in the public domain it has wider coverage. However, it does not cover the more theoretical aspects. At a high level one can think of the ICT sector as being responsible for the "deployment and management" of these technologies whereas Computer Science and Communications Engineering are focused more on the "design, prototyping and innovation" aspects.

Typical jobs in the ICT sector include System Administrators, Database Managers and Network Administrators. Computer Scientists focus more on areas such as development of algorithms, computer networking and large-scale software development. Computer Engineers focus on computer hardware research, design and development. Communications Engineers focus on design of computer and cellular networks as well as the associated network protocols (i.e. how devices talk to each other) and resource management issues. These distinctions are important when we start having a national conversation on how we create an innovative society to compete at the International level. APP development, for example, requires minimal programming skills but the design of algorithms for the processing of data requires more advanced skills.

Many countries are presently attempting to duplicate the successes of companies such as Apple, Google and Facebook.

These companies are well known for their innovation and, because of their innovative solutions, have been extremely successful. However, one must note that while the operational aspects fall within the ICT sector, the designs and innovation require more advanced knowledge and hence are done by the Computer Scientists and Engineers. For example, if we consider Google, their initial claim to fame was their novel search engine algorithms. Those with backgrounds in either Computer Science or Mathematics develop such algorithms. Similarly patents generated by companies in cellular networking and broadband communications protocols, which is the domain of Electrical Engineers. Hence if we are to compete internationally in these fields we must go beyond simple development of APPs and focus on the more advanced topics.

Of course, not any Computer Scientist, Electrical Engineer or Mathematician can come up with these innovative solutions to problems but training in these areas are a prerequisite. In addition, the educational system (from pre-school to tertiary) will need to be updated to allow students to be more creative and be given more design type assignments. The JCCS is therefore committed to help develop a truly technically innovative society by informing the Government, the public and private sector of what needs to be done.

Another JCCS objective is the education of the public on the latest technologies and the policy issues that have surfaced because of them. Such issues we have addressed in the past include Network Neutrality, Over the Top Services, Internet Services and Cyber security. Some of these have been done in collaboration with the TTCS and ISOC-TT.

IEEE computer society

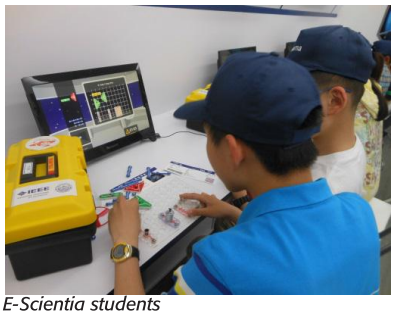
IEEE COMMUNICATIONS SOCIETY

# NIHERST and IEEE collaboration

*E-Scientia container*

NIHERST has been a pioneer and trend-setter in non-formal STEM education supporting classroom and life-long learning with its trademark of highly interactive, often entertaining teaching strategies that illustrate science concepts and their application in daily life and technological innovation. A new milestone was achieved this year with its partnership agreement with the Institute of Electrical and Electronics Engineers (IEEE) and the IEEE Trinidad and Tobago Section that provides local students, teachers and the public with access to the educational programs, exhibits and materials of the IEEE.

The first fruit of this partnership is the donation of the E-Scientia Exhibit, currently being installed at the National Science Centre in D'Abadie. The exhibit and its accompanying educational programmes will expose learners to the application of engineering and computing to solve problems. Learners will engage in solving challenges posed during a simulated space flight, receiving real-time training on how to address them in terms of energy, monitoring and detection, sensing of the environment, communication, and biomedical measurements, as well as the use of circuit components and devices to implement hardware solutions, an experience that can open young minds to consider future studies and careers in engineering and computing.


*E-Scientia students*

The partnership also allowed a cadre of local CAPE and university students to gain basic training in the Arduino open-source electronics platform from 24-26 August 2015. Based on easy-to-use hardware and software, Arduino is affordable, flexible and designed for anyone involved in interactive projects including engineers, teachers, students, artists, designers and techies. NIHERST plans to use Arduino technology to educate and inspire students to invent new products and create solutions to existing community/societal problems. The technology will be incorporated into its hands-on science, technology, engineering, arts and mathematics (STEAM) camps, clubs, design challenges at the Caribbean Youth Science Forum (CYSF), Community Centred Design and Innovation (COMDESI) programme, and more.

An exciting new initiative is YOUTH- BUILD, a project inspired by the COMDESI programme and the IEEE training workshop on Arduino, executed in partnership with Scoda Serv Limited and the BG Group. This project plans to engage 250 secondary students in creative thinking, problem-solving, innovation and invention, prototyping, civic engagement and social responsibility. Students and counsellors alike will be drawn together by a shared delight in the excitement of tinkering and creating, utilising technology through experimentation, exploration, problem-solving, and collaboration. These are the very ingredients that make for inspired and passionate STEM learners and practitioners. The project will provide opportunities for experiential and action-learning to address community needs while fostering social networks that allow youth to develop leadership skills and validate their vital contribution to community service through their connection with others. Students will engage with members of various communities, identifying problems and potential solutions to meet their needs.

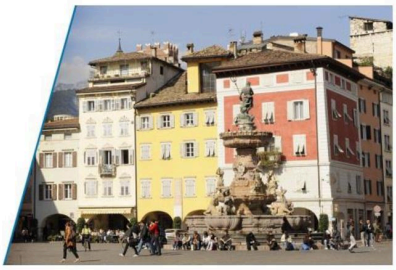
With a focus on inspiring the next generation of engineers and scientists, NIHERST and the IEEE Trinidad and Tobago Section hope to unfold other STEAM programmes on world-changing technologies from computing and sustainable energy systems to aerospace, communications and robotics.

*E-Scientia module*

# IEEE Second International Smart Cities Conference (ISC2 2016)

## Improving the citizens quality of life

12-15 September 2016 | Trento - Italy





### IMPORTANT DATES

Special sessions proposals: **1 April 2016**
(previous deadline 11 March 2016)
Papers submission: **11 April 2016**
Acceptance notification: **6 June 2016**
Camera-ready submission: **27 June 2016**
Early registration: **30 June 2016**

### WEB SITE

http://sites.ieee.org/isc2/

### CONTACTS

isc2-2016-chair@unitn.it
isc2-2016@unitn.it

## CALL FOR PAPERS

According to the United Nations projections, urbanization combined with the overall growth of the world's population could add another 2.5 billion people to urban populations by 2050: the world's population in urban areas is expected to be over 6 billion. Consequently, effective management of urban areas is one of the most important development challenges of the 21st century: it may open significant opportunities for economic growth, but also creates many threats that municipalities need to tackle, including increasing living costs, growing crime rates, difficulties in epidemics control, management of strategic infrastructures, exponential growth of data and potential cultural disagreements to name a few
It is clear that new technologies are essential to address the above challenges and the IEEE, as one the world's leading professional associations for the advancement of technology, is at the forefront of helping the world address urban population growth.
The IEEE International Smart Cities Conference (ISC2) is the premier conference sponsored by the **IEEE Smart Cities Initiative** and the **IEEE Italy Section**. The primary goal of the ISC2 is to foster discussions and collaborations between all people involved in planning and implementing successful smart cities, including citizens, policy makers, administrators, infrastructure operators, industry representatives, economists, sociologists and academicians. Specifically, the core purposes of the event are:

- to promote and strengthen partnerships and cooperation between all involved entities;
- to increase the citizens understanding and awareness of how their active participation through new technologies can positively affect quality of life;
- to disseminate recent research advancements, novel implementations and advanced deployments fostering smart city evolution;
- to provide a clear view of challenges in urban areas and discuss new ideas and approaches promoting the transition towards a vibrant innovation-based society.

The program of this flagship event includes panels, plenary talks, technical sessions, tutorials, exhibitions and a hackathon. Panels are a fundamental feature of ISC2. They bring together speakers from around the world, representing different viewpoints from government, industry, and academia in order to promote interactive discussion on how technological and social innovation can positively affect urban environments. In tutorials, experts present challenging or emerging topics to researchers, practitioners or to the wide public. Exhibitions encompass innovative world-class hardware and/or software products, with a significant potential impact for smart cities evolution.
The Technical Sessions focus on challenging and emerging issues in the field of smart cities. They cover new developments in theory, analytics, numerical simulation and modeling, experimentation, advanced deployment and case studies, results of laboratory or field operational tests, and other related creative endeavors as well as special educational developments for smart city curricula.
The theme of the 2016 edition of ISC2 is ***Improving the citizens quality of life***.
The Technical program topics include, but are not limited to:

- Smart city theory, modeling and simulation
- Intelligent infrastructure
- Sensors and actuators
- Smart economy development
- Open data and big data analytics
- Safety and security systems
- Smart healthcare
- Smart emergency management
- Smart environment and policy development
- Citizen engagement and smart governance
- Connected Vehicle (CV) technologies
- Smart mobility and transportation
- Internet of Things (IoT) for smart cities
- Intelligent vehicle-to-infrastructure integration
- Smart grid
- Environmental capital reduction
- Digital city and smart growth
- Smart traffic system operations
- Smart buildings
- Smart city implementation
- Pedestrian and bicyclist safety; mobility systems
- Smart city for special needs
- Smart manufacturing and logistics
- Environmental monitoring technologies

Proposals for Special Sessions are solicited (see the **Call for special session** poposals).
Prospective authors are invited to submit high quality original **Full** or **Short papers** via the EDAS submission site (link). **Full papers** should describe novel research contributions with evaluation results and are limited to **six (6) pages** (two additional pages are allowed with a **per-page extra fee of 100 $**).
**Short papers,** limited in length to **four (4) pages**, should be more visionary in nature and are meant to discuss new challenges and visions, showcase early research results, and explore novel research directions.
All submitted papers must be unpublished and not considered elsewhere for publication, should be written in English and formatted according to IEEE Template.
Each submitted paper will pass through the standard IEEE peer-review process and, if accepted and presented at the Conference, will appear in the conference proceedings and will be submitted for inclusion in the IEEE Xplore digital library.
Paper contests will include a **Conference Best Paper Award** and a **Best Student Paper Award**.
A Special Issue in IEEE Transactions on Intelligent Transportation Systems will promote the dissemination of the best results presented at the ISC2 2016 aiming at improving Transportation in Smart Cities. In addition, authors of papers presented during the ISC2 2016 are allowed to submit suitably extended versions of their papers to one of the following journals, according to the respective scope: IEEE System Journal, IEEE Transactions on Instrumentation and Measurement. Agreement with other perspective Journals is underway.

# IEEETT Section looks fordward to continue growth as it celebrates 10th anniversary

*Dr. Sanjay Bahadoorsingh* - IEEE Trinidad and Tobago Section Chair | 2014 – 2015
*sanjay.bahadoorsingh@ieee.org*

The IEEE in Trinidad and Tobago was formed on February 13th 2003 as a subsection of the Puerto Rico & Caribbean Section in Region 9 (R9 - Latin America and the Caribbean). The IEEE Trinidad and Tobago (IEEETT) Subsection was led by an interin steering committee based at the Department of Electrical and Computer Engineering, The UWI, that later became the first executive of the IEEETT Section led by electrical engineer and academic Alvin Lutchman. On November 12th 2005, the IEEE Board of Directors, based on the recommendation of the Region 9 Director approved the elevation of the IEEETT Subsection to Full Section status. The IEEETT Section remains the only native English speaking section in this region.

The IEEETT Section is a non-profit and wholly volunteer organisation. Today the IEEETT section comprises over 400 (professional and student grade) members with five societies, two affinity groups and a student branch. Our members are engineers, scientists, and allied professionals whose technical interests are rooted in electrical and computer sciences, engineering, and related disciplines. The society and its members are committed to continued professional development of its increasing membership, by hosting technical seminars and presentations as well as promoting careers in science, technology, engineering and mathematics (STEM). The IEEETT Section is committed to growing the engi- neering profession in Trinidad and Tobago.

I am very proud that within the last few years, the visibility and impact of the IEEE in the lives of our citizenry is positively increasing. In 2013, the Women in Engi- neering Affinity Group was formed and this team of dedicated volunteers (membership and participation is not exclusive to our dynamic female members) has been actively involved in outreach to secondary and tertiary institutions exciting our nation's young ladies about the prospect of a career in STEM. The IEEETT Section has also been steadily gaining recognition for our global contributions. In 2013, two of our very own young female engineering students were recipients of IEEE global awards (IEEE Power & Energy Society, T. Burke Hayes Student Prize Paper Award - Ms. Laurel Bhairosingh and IEEE Computer Society, Richard E. Merwin Award - Ms. Ambika Jagmohansingh). In 2014, past IEEETT Section Chair, Prof. Chandrabhan Sharma was presented with IEEE Education Activities Board Meritorious Achievement Award in Accreditation Activities. The UWI IEEE Student Branch also received the IEEE Darrel Chong Student Activity Award under the stewardship of Ms. Shalini Rampersad. The IEEETT Section has been actively partnering with other professional organizations and institutions to foster avenues for continued professional development. In 2015, the IEEE E-Scientia module will be delivered to Niherst to assist with STEM outreach. This self contained science exhibit will take pre-university students on an engineering-themed adventure using multimedia interactives and hands-on exploration of science and technology concepts. Trinidad and Tobago will now be one of seven E-Scientia locations worldwide. I am also very thrilled to announce that after approximately two years of dedicated preparation and lobbying, the IEEETT Section has emerged as the winning section to host the IEEE Region 9 2016 Regional Meeting (RM2016) in Port of Spain, Trinidad in March 2016. Hosting an event as RM2016 is a significant accomplishment for any engineering professional society within CARICOM. This is truly an exciting time for the IEEE within the region and especially Trinidad and Tobago.

This year the IEEETT Section is celebrating its 10th anniversary! The Section has been progressively growing from strength to strength. This is a fantastic opportunity to say thank you to our members, friends and supporters and a very happy birthday to all our IEEE Trinidad and Tobago Section members. The road ahead is very electrifying and I look forward to your continued support. All are welcome to join the IEEE Trinidad and Tobago Section and be part of an extremely dynamic and exciting professional society. See our website www.ieee.tt for more details.

# She's an Engineer!

*Alana Friday* - IEEE Trinidad and Tobago Section
WIE Chair | 2014 – 2015
*alana.friday@gmail.com*

Although, the profession of an engineer and the term engineering acquired their current connotation and usage recently in the nineteenth century, the principles of engineering have been modernizing our world since the middle ages

The teaching of engineering as a formal academic discipline began in the late 18th and early 19th centuries, however, only in the early years of the twentieth century, were few women admitted to engineering programs. They were generally looked upon as curiosities by their male counterparts.

Studies from the National Science Foundation (NSF) shows that, the number of women earning degrees in engineering has increased in the past 20 years but women's participation remains well below that of men at all degree levels and in all fine fields of engineering. The proportion of women is lowest in engineering, computer sciences, and physics.

It is no secret that engineering is a male dominated field; however, there are many initiatives to promote engineering to women. They all seek in some way to encourage more women to choose science and engineering as a career path. One group championing this cause is the IEEE Women in Engineering (WiE).

The IEEE-WiE is the largest international professional organization dedicated to promoting women engineers and scientists and inspiring girls around the world to follow their academic interests to a career in engineering.

The mission of IEEE-WiE is to gather and disseminate information regarding the status of women and initiatives for, by and on behalf of women in engineering and science. The group fosters mentoring and education programs within IEEE and makes available information regarding gender related educational issues which may improve the entry into, and the retention of women in engi- neering programs.

The IEEE-WiE Trinidad and Tobago Affinity Group has been involved in many events centered on promoting women in the Science, Technology, Engineering and Mathematics (STEM) fields and educating girls about the many disciplines under the STEM umbrella.

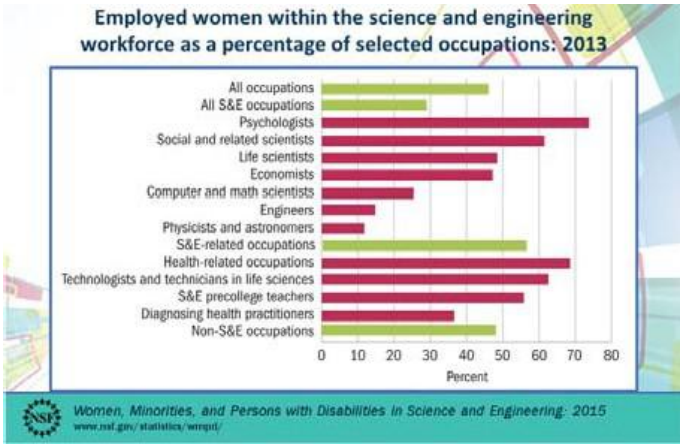
In the Caribbean, women have certainly fared better in this quest for equality than women in some developing regions, and the academic performance of girls today is on par with, if not exceeding that of boys.

Many Caribbean-rooted icons in STEM have broken ranks. NASA's Camille Wardrop Alleyne is a brilliant aerospace engineer whose accomplishments in that field have been astonishing; The UWI's Dr. Kim Mallalieu is an internationally recognised engineering educator and a communications systems guru who has pioneered in mobile applications development, telecoms regulation and Open Data initiatives.

Although, 92.5 percent of the global IEEE's membership (approx. 430,000), is male, on October 9th, 2015, The IEEE members elected Karen Bartleson as the 2016 IEEE President-Elect – the second woman in The IEEE's history to attain this position. She's the Senior Director of Corporate Programs and Initiatives, at Synopsys, an electronic design automation company.

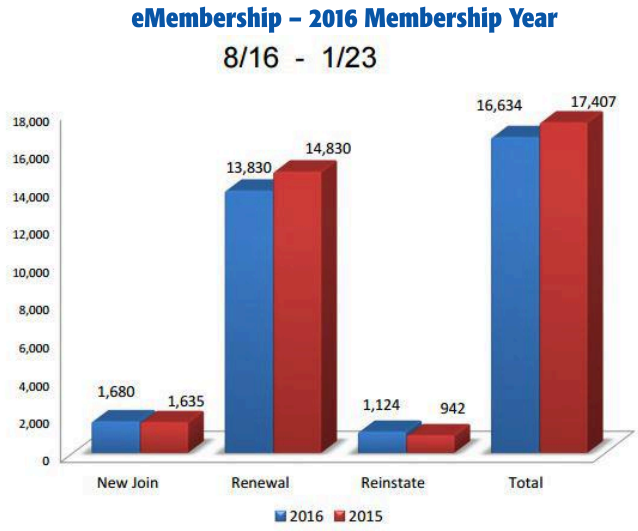
Women's voices are essential to problem-solving and innovation, which is, the heart of engineering. When women design new products or services, they bring a different perspective that too often hasn't been considered before. The lack of women in STEM means, the perspectives of half the world's popula- tion are not considered.

Societies must continue to find ways to encourage girls to engage in mathematics and science in school, to support women pursuing engineering degrees in university, and to provide women with opportunities to thrive in their workplaces. There is a need to re-imagine what an engineer and a leader looks like so that we can tap into this critical half of the human talent pool.



# Membership Stats
## January 2016

| | |
|---|---|
| ***IEEE Total Membership:*** | 427,935 |
| ***Total Society Membership:*** | 325,745 |
| ***IEEE-Standards Association Membership:*** | 6,858 |




# SciPyLA 2016 Conference Announcement

SciPy Latin America 2016 Conference, the fourth annual Scientific Computing with Python conference in Latin America, will be held this May 16th-20th 2016, in Florianópolis, Brazil. SciPy Latin America is a regional community dedicated to the advancement of scientific computing through open source software for mathematics, science, and engineering mainly developed with Python.

During the conference SciPyLA is proud to host the following event and talk types:
- Tutorials
- Talks
- Lighting Talks
- Poster Presentations
- Track teen

The full program will consist of two days of tutorials, followed by three days of presentations.

**Important dates:**
* March 1st: Initial date for submission of talks, tutorials and posters;
* April 8th: Deadline for submission of talks, tutorials and posters;
* April 22nd: Notification of acceptance for talks, tutorials and posters;
* May 16th-18th: SciPyLA 2016, 2 days of tutorials;
* May 19th-20th: SciPyLA 2016, 3 days of talks.

You will find more information about SciPyLA at our website, http://conf.scipyla.org/, and you can receive updates sign up to our newsletter.

# IEEE R9 Student Branches Web Site Contest

Invitamos a todos a participar en el **IEEE R9 Student Branches Web Site Contest**. Aprovechen esta excelente oportunidad para mostrar a todos la página web de su Rama. Los ganadores del concurso de la Región participarán en el Global Student Web Site and Social Media Competition, dirigido por el Comité de Actividades Estudiantiles IEEE MGA, donde hay grandes premios para los ganadores.

### *Lineamientos generales y eligibilidad*

- Todas las Ramas y Capítulos estudiantiles son elegibles para el Student Branch Web Site contest.
- Cada Rama Estudiantil puede participar con un sitio web como máximo, independientemente del número de capítulos o grupos de la rama.
- Para ingresar tu Rama debes enviar un correo electrónico a concursosr9@ieee.org, con copia al RSAC (j.tullume@ieee.org) y a la RSR (deborah.b.d@ieee.org).
- En el Asunto del correo debes especificar: "IEEE R9 SB Web Site Contest - [Sección] - [Universidad].
- En el cuerpo el correo debes especificar la siguiente información:
    - o URL del sitio web;
    - o Nombre completo de la universidad;
    - o Nombre del web master;
    - o Correo electrónico del web master;
- Fecha máxima de envío: 22 de abril, 23:59hs. (GMT -3)

### *Premios*

Se entregará un certificado personalizado a cada participante del concurso.

IEEE Región 9 seleccionará un jurado regional que decidirá el ganador o ganadores de la región que se remitirá al Comité de Actividades Estudiantiles para la evaluación en el concurso internacional. Sobre la base de los criterios de evaluación, el Comité de Actividades Estudiantiles dará premios internacionales que se enumeran a continuación:

- Primer lugar: USD1,000
- Segudo lugar: USD750
- Tercer lugar: USD500
- Mención honorífica: USD250 cada uno

Si necesitas más información sobre cada uno de los criterios a evaluar en el sitio web, recomendamos visitar el siguiente enlace: https://www.ieee.org/membership_services/membership/students/awards/site_contest_rules.html


# ARGENCON 2016
## Congreso Bienal de IEEE Argentina

### ARGENCON: Congreso Bienal de IEEE Argentina.

**Lugar:**
Universidad Tecnológica Nacional, Facultad Regional Buenos Aires, Av, Medrano 951, Almagro, Ciudad Autónoma de Buenos Aires, Argentina.

**Fechas Importantes:**

Evento: 15 al 17 de Junio 2016.

Envío de resumen: 21 de Diciembre de 2015.

Carga del trabajo completo: 28 de Marzo de 2016.

Notificación de aceptación: 02 de Mayo de 2016.

Fecha límite para envío de trabajos corregidos: 16 de Mayo de 2016.

**Importante:** la fecha de envío de trabajos no implica eliminación, sino la posibilidad de obtener la registración con descuento.

**Aranceles*:**
Profesional:
- No-socio $1,000
- Socio $700

Profesional Autor:
- No-socio $800
- Socio $500

Estudiante:
- No-socio $600
- Socio $400

Estudiante Autor:
- No-socio $400
- Socio $250

*Se consideran socios a: Socio: IEEE, AADECA, SABI, UTN. Precios validos hasta el 28/02/2016.

**Para mayor información**
Visite: http://www.argencon.org.ar

**Contacto por e-mail**
argencon@ieee.org.ar
sec.argentina@ieee.org

**Organizado por:**

*IEEE Argentina*

### Presentación de trabajos:

Se invita a participar con la presentación de trabajos originales, no publicados en otros medios, los cuales serán sometidos a referato. Trabajos seleccionados por su calidad se publicarán en IEEE Latin America Transactions.

### Actividades previstas:

- Presentación de trabajos en formato oral y poster.
- Sesiones Plenarias de disertantes distinguidos.
- Eventos de capítulos, ramas estudiantiles y grupos de afinidad.
- Workshops.
- Seminarios.

### Tópico/temáticas principales:

- **Aeronáutica y espacio.**
- **Antenas, Propagación y Compatibilidad electromagnética.**
- **Bioingeniería.**
- **Ciberseguridad y ciberdefensa.**
- **Circuitos y sistemas, dispositivos electrónicos y microelectrónica.**
- **Comunicaciones.**
- **Computación y Sistemas.**
- **Control, automatización y robótica.**
- **Dispositivos electrónicos y circuitos de estado sólido.**
- **Educación.**
- **Electrónica de potencia y aplicaciones industriales.**
- **Geociencias y Sensoramiento Remoto**
- **Gestión de la Ingeniería y la Tecnología.**
- **Implicancia social de la tecnología.**
- **Ingeniería oceánica.**
- **Inteligencia computacional.**
- **Procesamiento de señales.**
- **Teoría y técnicas de microondas.**
- **Sistemas de potencia.**
- **Sistemas ópticos y fotónica.**
- **Videojuegos y Gamificación.**

### Objetivos:

Los objetivos de **IEEE Argentina** para **ARGENCON** son:

- Sostener un evento propio bianual para difundir e intercambiar las actividades del "**ámbito técnico IEEE**", que reúna a los interesados en el amplio espectro de áreas del conocimiento abarcadas por el Instituto como son Potencia, Computación, Comunicaciones, Bioingeniería, Robótica, Tecnología Aeroespacial, Inteligencia Artificial o Ingeniería Oceánica, así como áreas 'transversales', como Educación, Gerenciamiento en Ingeniería o Impacto Social de las Tecnologías.
- Colaborar en el esfuerzo de promover **el interés y entusiasmo en los jóvenes por el estudio y la formación en las ciencias y la tecnología.**
- Promover la participación de diferentes **ramas de la industria**, con el objeto de promover las actividades conjuntas. Contribuyendo, de esta manera, al objetivo primario del IEEE: "**Advancing Technology for Humanity".**

IEEE
Argentina Section


# 1st CALL FOR PAPERS

***2016 IEEE-RAS International Conference on Humanoids Robots.***

NOVEMBER 15-17, 2016,
CORAL BEACH RESORT HOTEL, CANCUN, Q.ROO, MEXICO

## ORGANIZING COMMITTEE

| | |
|---|---|
| **GENERAL CHAIR** | PROF. EDUARDO BAYRO-CORROCHANO / *CINVESTAV, MEXICO* |
| **PROGRAM CHAIR** | PROF. PAUL OH / *DREXEL UNIVERSITY* |
| **PROGRAM CO-CHAIR** | DR. EIICHI YOSHIDA / *AIST, JAPAN* PROF. E. MORALES / *INAOE, MEXICO* PROF. AUDIE BILLARD / *EPFL, SWITZERLAND* |
| **CONTEST** | PROF. JUN HO OH / *KAIST, S. KOREA* |
| **PUBLICATION CHAIR** | PROF. STEFAN SHAAL / *USC, USA* DR. GIORGIO MATTA / *ITT ITALY* PH.DS. LUIS SENTIS / *UTA, USA* |
| **PUBLICITY CHAIR** | PH.D. JAMES J. KUFFNER / *GOOGLE-CMU, USA* |
| **AWARDS CHAIR** | PROF. CHRIS ATKENSON / *CMU, USA* |
| **TUTORIAL / WORKSHOP CHAIR** | DR. OLIVIER STASSE / *AIST, JAPAN* PROF. SVEN BEHNKE / *UNI. BONN, GERMANY* |

Humanoids 2016 welcomes paper contributions, and proposals for workshops, tutorials, videos, and exhibitions on topics related to the following:

| | | |
|---|---|---|
| Humanoid design | Humanoid motion planning and control | Humanoid grasping and manipulation |
| Learning and imitation strategies for humanoids | Software and hardware architectures | Perception and sensing for humanoids |
| High level cognitive planning and control | Human-humanoid interaction | Humanoids as companions |
| Industrial applications of humanoids | Neuro-robotics and brain-humanoid interfaces | Wearable robots, prostheses, rehabilitation and assistive devices |
| 3D printed fabrication | Human body and behavior modeling | Humanoids grand challenges |
| Humanoids in hazardous environments | Big data analysis for humanoids | Benchmarking and experimental methodology in humanoids |
| Ethical and social issues in human-humanoid coexistence | | |

## IMPORTANT DATES

| | |
|---|---|
| 1st Call For Papers | Dec. 01, 2015 |
| 2nd Call For Papers | Feb 08, 2016 |
| Final Call For Papers | April. 04, 2016 |
| Submission Paper Opens | May. 02, 2016 |
| ***Deadline For Submission Paper*** | ***July. 15, 2016*** |
| Notification Of Paper Acceptance.<br>Early Bird Registration Opens. | Sept. 15, 2016 |
| *At least one author of accepted papers must register during the early bird registration period for the paper to be published* | |
| Publication Of The List Of Accepted Papers | Sept 15, 2016 |
| Submision Of Final Camera-Ready Papers | Oct 17,2016 |
| Submission Workshop & Contest Opens | June 06, 2016 |
| ***Deadline Workshop & Contest*** | ***August 31, 2016*** |
| Notification Of Workshop & Contest Acceptance | Sept. 9, 2016 |
| Publication Of Workshop & Contest Acceptance | Sept 12, 2016 |
| ***Deadline For Early Registration Fees*** | ***Oct. 17, 2016*** |
| Conference Dates | Nov. 15 – 17, 2016 |

Who develops green technologies, video games, rescue robots and more?

Explore the amazing world of engineers—
all in one web site…

# TryEngineering.org

- **See** the exciting work that engineers do
- **Learn** how engineers make a difference
- **Start** now to prepare to be an engineer
- **Play** online games and challenges
- **Download** free engineering lesson plans
- **Explore** the fascinating FAQ
- **Search** for accredited engineering programs
- **Find** competitions and summer camps

Visit **www.tryengineering.org** today!

Brought to you by: trYscience IBM IEEE

# Next deadline on April 20th




We invite you to send us articles.
The NoticIEEEro is the official magazine of
IEEE Region 9.

http://sites.ieee.org/r9/publicaciones-2/noticieeero/

## 2016 Editorial Calendar

| # \| N° | Deadline \| Cierre de Edición | Distribution \| Distribución |
|---|---|---|
| **100** | Wed 20 Apr 2016 | Tue 3 May 2016 |
| **101** | Mon 20 Jun 2016 | Sun 3 Jul 2016 |
| **102** | Sat 20 Aug 2016 | Sat 3 Sep 2016 |
| **103** | Thu 20 Oct 2016 | Thu 3 Nov 2016 |
| **104** | Tue 20 Dec 2016 | Tue 3 Jan 2017 |

**Check the new dates!**