



IEEE



CASS (Malaysia) Newsletter

April 2016

Chairman's Message



Dear members,

Welcome to the second year of *CASS (M) Newsletter*! Time is certainly ticking! After an amazing Year 1 *CASS (M) Newsletter*, we have already made a good start to Year 2 and are looking forward to more interesting and challenging activities for the rest of the year. This April is the perfect time to start considering new opportunities.

Take time to schedule your calendar with the IEEE Circuits and Systems Society Malaysia Chapter to learn and gain more information. This newsletter can link you to the society's news on education, academia/industry networking and events hosted by us.

Nurul Amziah Md Yunus, PhD.

Chair

IEEE CASS M

Editor's Message



Dear IEEE CASS (M) Members,

I'm pleased to bring you the first issue of 2016 IEEE CASS (M) Newsletter. I hope you will enjoy reading the articles featured in this issue.

During this year the newsletter team will be working on improving the delivery and content to serve the community better. Starting 2016, this newsletter is published bimonthly and the tentative publication

dates are in the middle of April, June, August, October and December. Content wise, this year we plan to feature technical-oriented magazine-like article in addition to the usual activity report and event advertisement.

Members are welcome to contribute exciting reports and news article that would help our newsletter to be established and reached out to members. For further communications, please contact me via email at fr@upm.edu.my

So here, the issue is now in your hand. I hope you will all enjoy it.

Fakhurul Zaman Rokhani, PhD.

Editor

IEEE CASS M

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Tan Chee Phang (Upcoming Events)

Che Nur Hamizah (Awards & Recognition)

Khairi Zulkalnain (Reviewer)

Artwork Design

Masyitah Amat Sairin

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News & Highlights

Membership Drive @ UTM, Skudai

On 12th Jan 2016, an IEEE membership drive event was held at Universiti Teknologi Malaysia, Skudai, Johor. During the event, a technical talk title “Fundamental of CMOS Image Sensors” was given by Assoc. Prof. Dr. Suhaidi Shafie, which explained about the basic knowledge of charge-coupled devices (CCD’s) and CMOS image sensors.

Second technical talk was presented by Dr. Fakhrol Zaman Rokhani entitled “Energy Efficient and Reliable NOC”. He discussed about a few

NOC schemes that could achieve higher reliability at the same time having higher energy efficiency.

Later, Dr. Mohd. Amrallah promoted IEEE CAS Malaysia Chapter to the attendants by introducing the conferences and society activities which previously organized by IEEE CAS Malaysia Chapter.

Written/Edited by,
Lim Yang Wei & Tan Chee Phang



Group photo during membership drive at UTM, Skudai, Johor.



Dr. Fakhrol Zaman Rokhani presented a technical talk entitled “Energy Efficient and Reliable NOC”.



CAS committees at the membership drive event.



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Upcoming Events

International Conference on Intelligent & Advanced Systems (ICIAS 2016)

The Electrical and Electronic Engineering Department of Universiti Teknologi PETRONAS (UTP) is proud to organize the 6th International Conference on Intelligent & Advanced Systems (ICIAS2016) **from 15th to 17th August, 2016**. This conference is going to be one of the nine simultaneous-held conferences of The World Engineering, Science and Technology Congress - ESTCON2016. ICIAS2016 is the continuation of ICIAS2014, which was successfully held at the premier Kuala Lumpur Convention Centre (KLCC); the same conducive venue will host our upcoming ICIAS2016 conference. The theme of the conference is "**Technological Convergence for Sustainable Future**". The conference is technically co-sponsored by the **IEEE CASS Malaysia Chapter**.

The ICIAS2016 conference aims at bringing together experts and researchers in intelligent and advanced systems. Topics of interest to the conference include, but are not limited to:

- Sensor Technology
- Nonlinear Circuits & Systems
- Signal Processing
- Instrumentation & Control Systems
- Communication Systems
- Image Processing & Multimedia Systems
- VLSI & Embedded Systems

- Biomedical Systems
- Power Electronics, Power Systems & Smart Grid
- Computational & Artificial Intelligence

Each participant will have access to all nine (9) concurrent conferences under ESTCON2016, including the plenary and parallel sessions, exhibition that includes innovation pitching, and congress dinner with only a single registration fee.

Important Dates:

Conference day: 15-17 August 2016

Conference website: www.utp.edu.my/icias2016/

ICIAS 2016
Technological Convergence for Sustainable Future

Introduction & Aims
The Electrical and Electronic Engineering Department of Universiti Teknologi PETRONAS (UTP) is proud to organize the 6th International Conference on Intelligent & Advanced Systems (ICIAS2016) from 15th to 17th August 2016 at Kuala Lumpur Convention Centre (KLCC), Malaysia. ICIAS2016 is organized by the Electrical & Electronic Engineering Department of Universiti Teknologi PETRONAS (UTP), but is technically co-sponsored by IEEE Malaysia Chapter.

The conference is the continuation of ICIAS2014 which successfully brought together a wide range of researchers, scientists and engineers from 200+ countries. In addition, ICIAS2016 provides a unique platform for all participants to present their research papers. The program will have space for all 20 concurrent conferences under ESTCON2016, including the plenary and parallel sessions, exhibition that includes innovation pitching, and congress dinner with only a single registration fee. The main aim of ICIAS2016 is to bring together experts and researchers in intelligent and advanced systems to discuss their research and development work.

Aims/Topics
Topics of interest to the conference include, but are not limited to:
 • Sensor Technology
 • Nonlinear Circuits & Systems
 • Signal Processing
 • Instrumentation & Control Systems
 • Communication Systems
 • Image Processing & Multimedia Systems
 • VLSI & Embedded Systems
 • Biomedical Systems
 • Power Electronics, Power Systems & Smart Grid
 • Computational & Artificial Intelligence

Submission Procedure
Prospective authors are invited to submit All-IEEE full papers of four (4) to six (6) pages, also being original, previously unpublished and complete work, including cover sheet, research and development on the above areas, in order of wide interest and clear presentation can consider all the requirements stated below. Prospective authors are invited to submit their research papers to the ICIAS2016 website at www.utp.edu.my/icias2016/ for the submission of the papers. The deadline for the submission of the papers is 15th August 2016. The accepted papers will be published in IEEE Subject Catalogue. The published ICIAS2016 has been classified as IEEE Xplore. See more details at www.utp.edu.my/icias2016/.

Important Dates
 Full Paper Submission Deadline: 23 February 2016
 Registration & Acceptance: 21 March 2016
 Final Manuscript Submission Deadline: 15 May 2016
 Call for Paper Registration: 1 May 2016
 Registration Deadline & Payment (ESTCON) 31 May 2016
 Conference Dates: 15-17 August 2016

Conference Secretariat
 Electrical and Electronic Engineering Department
 Universiti Teknologi PETRONAS
 37101 Serdang, Selangor
 37100 Kuala Lumpur, Malaysia
 Kuala Lumpur, Malaysia

Phone: +603 988 7023 / 7033
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 Email: icias2016@petronas.com.my | www.utp.edu.my/icias2016/

Technical Sponsors: IEEE, CAS, IEEERAS, EMB



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Upcoming Events

3rd International Conference of Electronic Design 2016 (ICED 2016)

Universiti Malaysia Perlis (UniMAP) is organising the 3rd International Conference of Electronic Design 2016 (ICED 2016) from 11 – 12 August 2016. The theme for this year is “**Electronics and Computer Applications for Internet of Things**”. ICED 2016 aims to provide a platform to professionals, researchers, academicians and industry personals to share their new research findings. It is also a platform to show case and generate interest in cutting edge applications, challenges and future trends in the area of Electronics and Computer Applications for Internet of Things (IoTs). This time the conference will be organised at Phuket, Thailand and co-organised with Prince of Songkla University, Thailand and **IEEE Circuit and System (CAS) Malaysia chapter**.

Important Dates:
Conference day: 11-12 August 2016

More information can be obtained from <http://iced2016.unimap.edu.my/>

Written by,
Asral Bahari Jambek



CALL FOR PAPERS

ELECTRONICS AND COMPUTER APPLICATIONS FOR INTERNET OF THINGS

TOPICS OF INTEREST

- Analog and Mixed Signal Integrated Circuits
 - Digital Integrated Circuits, SOC, and NOC
 - Control Systems, Mechatronics, and Robotics
 - Optics and Photonics
 - Linear and Non-linear Circuits
 - Power Systems and Power Electronics
 - Nano electronics and Nanotechnology
 - Bioengineering Systems and Bio Chips
 - Communication and Wireless Systems
 - System Architectures
 - Embedded Electronics
 - Image Processing and Multimedia Systems
 - MEMS/NEMS
 - Digital Signal Processing
 - RFICs, Microwave, and Optical System
 - Power Management and Energy Harvesting
 - Hardware/Software Co-design
 - Bio-inspired Green Technologies
 - Vehicular Network and Communications Technology
 - Electromagnetic Field Theory
- All accepted and presented papers will be submitted to IEEE Xplore.
Earlier successful ICED conference proceedings in 2008 and 2014 have been published in IEEE Xplore Digital Library and indexed by Scopus.
- CONTACT US**
Phone: +604-988 5555/ +6013-3223759
Fax: +604-988 5510
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Website: <http://iced2016.unimap.edu.my>

ICED 2016 aims to provide a platform to Professionals, Researchers, Academicians and Industry personals to share their new research findings. It is also a platform to show case and generate interest in cutting edge applications, challenges and future trends in the area of Electronics and Computer Applications for Internet of Things (IoTs).

IMPORTANT DATES

- PAPER DEADLINE :** 15 MAY 2016
- NOTICE OF ACCEPTANCE :** 15 JUNE 2016
- EARLY BIRD REGISTRATION:** 1 JULY 2016

REGISTRATION FEES

	USD	RM	THB
NON IEEE MEMBER *	500	1,450	11,550
IEEE MEMBER *	450	1,250	10,300
STUDENT	300	700	5,800

* EARLY BIRD - 10% discount





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Upcoming Events

International Conference on Electrical & Electronic Technology (ICEETech 2016)

The International Conference on Electrical & Electronic Technology (ICEETech2016) will be held at Faculty of Engineering, Universiti Putra Malaysia (UPM) on 22-26 August 2016. The theme of the conference is "Inculcating Great Minds Towards Smart Sustainable Engineering Solution". ICEETech is the first conference that aims to provide a unique platform for researchers and engineers in Electrical and Electronic Engineering and other related fields to share their experiences and views in the latest research and breakthroughs.

Authors are invited to submit full papers describing original research. Area of interests includes, but are not limited to the following conference tracks:

- Power System and Protection
- Renewable & Sustainable Energy
- High Voltage
- Dielectric Insulation
- Machine
- Power Electronics
- Energy Efficient Transportation
- Robotic and Automation
- Control System and Signal Processing
- Biomedical Engineering
- Intelligent System
- Sensor Technology
- System-on-Chip
- MEMS and NEMS

- IC Packaging and Test
- Nanoelectronics

Important Dates:

Conference day: 22 – 26 August 2016

Conference website:

www.iceetech2016.upm.edu.my

2nd ANNOUNCEMENT

The International Conference on Electrical & Electronic Technology (ICEETech2016) 22-26 August 2016 Universiti Putra Malaysia

The International Conference on Electrical & Electronic Technology (ICEETech2016) will be held at Faculty of Engineering, Universiti Putra Malaysia (UPM) on 22-26 August 2016. The theme of the conference is "Inculcating Great Minds Towards Smart Sustainable Engineering Solution". ICEETech is the first conference that aims to provide a unique platform for researchers and engineers in Electrical and Electronic Engineering and other related fields to share their experiences and views in the latest research and breakthroughs.

Authors are invited to submit full papers describing original research. Area of interests include, but are not limited to the following conference tracks:

- Power System and Protection
- Renewable & Sustainable Energy
- High Voltage
- Dielectric Insulation
- Machine
- Power Electronics
- Energy Efficient Transportation
- Robotic and Automation
- Control System and Signal Processing
- Biomedical Engineering
- Intelligent System
- Sensor Technology
- System-on-Chip
- MEMS and NEMS
- IC Packaging and Test
- Nanoelectronics

Keynote speakers:

Prof. Dr. Arokia Nathan, University of Cambridge
 Prof. Dr. Osman M. Tokhi, University of Sheffield
 Assoc. Prof. Dr. Shyam S. Pandey, Kyushu Institute of Technology, Japan
 Assoc. Prof. Dr. Coskun Kocabas, Bilkent University
 Assoc. Prof. Dr. Chusak Limtrakul, Prince of Songkla University

Registration Fee:

RM1,600/USD\$10	(Normal Rate)
RM1,400/USD\$440	(Student Rate)
RM1,500/USD\$470	(IEEE member)
RM800	(Participant)
RM1,400/USD\$440	(Early Bird)

Publication

Selected high quality manuscript will be published in Pertanika Journal of Science and Technology, Pertanika Journal Of Science And Technology is a scientifically reviewed journal which is abstracted and indexed in SCOPUS (Elsevier), Thomson (ISI) Web of Knowledge (BIOSIS & CAB Abstracts), EBSCO & EBSCOhost, DOAJ, ERA, Cabell's Directories, Google Scholar, MyAIS, ISC & Rubiq (Journal Guide). The Editorial Board will closely monitor all manuscripts in order to keep up a high scientific and technical standard throughout. Special emphasis is to be made on the correct use of the English language. Each paper must be checked by Turnitin and the percentage of similarity must be less than 30%. In addition, each paper will be reviewed by two competent reviewers.

Important Dates :

Dateline submission	: 30 April 2016
Notification of acceptance	: 1 June 2016
Camera ready paper	: 15 July 2016

MAIN ORGANISER:
 Department of
 Electrical and Electronic Engineering

CO-ORGANISER:

SUPPORTED BY:

For more information please visit www.iceetech2016.upm.edu.my
 Email: eng_iceetech2016@upm.edu.my



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Upcoming Events

2016 IEEE CASS (M) 4th High-Tea Networking Event

The IEEE High-Tea Networking event is in its fourth year this year being organized since its inception in 2013.

During this event, outstanding PhD and MSc dissertations as well as undergraduate senior years (final year) design projects from local universities are recognized through multiple awards.

This year event's detail as follows:

Date:

July 27th 2016.

Theme:

Moving Forward With Internet of Things (IoT)

Location:

SAINS@USM, Persiaran Bukit Jambul, 11900, Bayan Lepas, Pulau Pinang, Malaysia

Organizers:

IEEE, IEEE Circuits and Systems Society Malaysia Chapter, USAINS, CREST

Objectives:

IEEE CAS High-Tea Networking is a yearly event, which aims:

- To be a platform for intellectual interaction between IEEE members and fellows, engineers and academicians.
- To share knowledge and opportunities for collaboration
- To promote the IEEE CAS society programs and membership

Target Audience

- Industries and Research Institutes related to circuits and system.
- Government and Funding bodies
- Academicians and students from Local and International Institutions.

Invited Speakers

1. Assoc. Prof. Dr. Asrulnizam Abd Manaf, CEDEC USM – “Internet of Things: Opportunities and Challenges for Next-Generation Sensor Technology”.
2. Mr. Kamarul Zaman Abdul Rashid, Intel Malaysia Design Center – “Moving Forward with Internet of Things with UX Centered Software as a Service (SaaS)”.
3. TBA

For more information, please visit [IEEE CASS \(M\) website](#). Link to past years High-Tea event: [2013](#), [2014](#), [2015](#).



Group photo of the attendees for 2015 Networking High Tea event



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Upcoming Events

Call for Award Nominations

IEEE CAS Outstanding Doctoral/Master Dissertation Awards (Malaysia Chapter)

Nomination Deadline: June 30, 2016

Description

The CAS Outstanding Doctoral/Master Dissertation Awards recognize outstanding doctoral/master dissertations that have contributed to the advancement of the theory and/or applications of circuits and systems. Each award will include an honorarium and a certificate. The awardees will be invited to travel to IEEE CAS High Tea event to receive the awards.

Eligibility

The awards are for outstanding dissertations (in circuits and systems) dated within one year preceding the nomination due date (i.e. dated between August 29, 2015 and June 30, 2016). A nominee must be an IEEE CAS member at the time of nomination.

Important Dates

Submission deadline: June 30, 2016

Notification of award: July 22, 2016

Award presentation at IEEE CAS High Tea 2016

Submission Procedures

A nomination should consist of the following items:

1. Name, address, phone number, and email address of the person making the nomination (the nominator).
2. Name, address, phone number, and email address of the candidate for whom an award is recommended (the nominee).
3. A short statement (200-500 words) explaining why the nominee deserves the award in question.
4. Supporting statements from two people in addition to the nominator.
5. The nominated dissertation in an English language version.
6. A list of the nominee's publications that were used as the basis of chapters in the nominated dissertation.
7. The latest CV of the nominee.

No nomination will be considered without items listed above.

The judges' decision will be final on all matters.

Nominations should be submitted via e-mail as a zip file including the preceding items to the Award Committee Chair, Dr Lini Lee: linilee@mmu.edu.my

Written by,
Lini Lee

Any contribution in terms of Advertisement and Article/Writing can be made before June 1, 2016 for June 15, 2016 issue to fzr@upm.edu.my



IEEE



Upcoming Events

Call for Award Nominations

IEEE CAS Innovation Awards (Malaysia Chapter)

Nomination Deadline: June 30, 2016

Description

The CAS Innovation Awards recognize outstanding final year projects that have illustrated innovation in the theory and/or applications of circuits and systems. Each award will include an honorarium and a certificate. The awardees will be invited to travel to IEEE CAS High Tea event to receive the award.

Eligibility

The awards are for outstanding final year projects (in circuits and systems) completed within one year preceding the nomination due date (i.e. dated between August 29, 2015 and June 30, 2016). A nominee must be a full-time undergraduate from Public or Private Higher Education Institutions in Malaysia. Either the nominator or the nominee must be an IEEE CAS member at the time of nomination.

Important Dates

Submission deadline: June 30, 2016

Notification of award: July 22, 2016

Award presentation at IEEE CAS High Tea 2016

Submission Procedures

A nomination should consist of the following items:

1. Name, address, phone number, and email address of the person making the nomination (the nominator – must be the project main/co-supervisor).
2. Name, address, phone number, and email address of the candidate for whom an award is recommended (the nominee).
3. A short statement (less than 200 words) explaining why the nominee deserves the award.
4. The nominated project report (softcopy) in an English language version.
5. If applicable, include an outline of any market place potential and/or research and development potential.

No nomination will be considered without items listed above.

The judges' decision will be final on all matters.

Nominations should be submitted via e-mail as a zip file including the preceding items to the Award Committee Chair, Dr Lini Lee: linilee@mmu.edu.my

Written by,
Lini Lee

Any contribution in terms of Advertisement and Article/Writing can be made before June 1, 2016 for June 15, 2016 issue to fzr@upm.edu.my