

1st issue, 15 February 2017

Contents

Section activities:	1
R10 EXCOM meeting in Hong Kong	1
2017 IEEE Region 10 Technical Seminar on Smart Technologies for Smart Communities.....	1
Student Paper Contest	2
Chapter activities:.....	2
Information Theory Chapter.....	2
Distinguished lecture by Prof. Alex Holevo	2
2016 IEEE WIE Affinity Group Activities	3
Technology and Engineering Management (TEM14) Chapter.....	4
2017 Chapter Officers	4
IEEE International Conference on Industrial Engineering and Engineering Management (IEEM2017) by (TEM14)	4
Electromagnetic Compatibility (EMC) Chapter.....	4
Distinguished Lecturer by Prof. Ramachandra Achar	4
Technical seminar on the topic “What you need to know on EMC in Railway Systems”	5

was invited to attend the 2017 IEEE Region 10 Meet held on 4 & 5 March 2017 in Chiba City, Japan.

Details of the R10 EXCOM meeting:-

Date	21 & 22 January 2017 (Sat and Sun)
Time	8 AM to 5:30 PM
Venue	Holiday Inn Golden Mile Hotel 50 Nathan Road, Tsim Sha Tsui, Kowloon, Hong Kong
Venue Tel	+852 2315 1232
Venue Email	reserv@goldenmile.com
Venue Website	www.holidayinn.com/hongkong-gldn



2017 IEEE Region 10 Technical Seminar on Smart Technologies for Smart Communities

The seminar was organized by Prof Sri Niwas Singh, R10 Conf & Tech Seminar Coordinator 2017-2018, in The Open University of Hong Kong, Ho Man Tin, and Kowloon on 20 January 2017.

Section activities:

R10 EXCOM meeting in Hong Kong

We are glad that R10 Director, Prof Chun, had chosen Hong Kong as the venue of the meeting in its 50th year anniversary and gave Hong Kong Section the opportunity to be the host section for this meeting. Most of the Section Chairs and Affinity Groups in R10 attended the meeting. On behalf of Hong Kong Section, Section Chair, Dr William Cheung, delivered a welcoming speech at the opening of the meeting. He did not stay for the afternoon session of the meeting because he was one of the 1200 electors for nomination and selection of the next Chief Executive of Hong Kong and he had a commitment to meet one of the candidates in the same afternoon. However, he

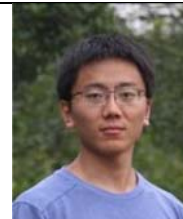


Details of Region 10 Technical Seminar:-

Date	21 January 2017 (Saturday)
Time	8 AM to 5:30 PM
Venue	The Open University of Hong Kong, Ho Man Tin, Kowloon
Venue Tel	+852 2315 1232

2016 Undergraduate Winners

Prize	Name	Institute
1 st	Li, Hongyang	CUHK
2 nd	Li, Jizhou	CUHK
3 rd	Li, Zhixi	HKU



Li, Jizhou CUHK
2nd prize, CUHK



Li Zhixi
3rd Prize, HKU

**WISHING ALL
MEMBERS A VERY HAPPY
CHINESE NEW YEAR 2017
in the YEAR OF THE
ROOSTER!**

Student Paper Contest

Every year, the IEEE Hong Kong Section organizes the Undergraduate and Postgraduate Student Paper Contests to encourage IEEE student members in Hong Kong to apply their engineering knowledge to research projects in electrical and electronic engineering and to present their work concisely and coherently. The papers submitted by undergraduate and postgraduate students will be evaluated by technical experts in the relevant fields. The best papers may be selected to join the IEEE Region 10 Student Paper Contests if they meet the contest criteria. The results for 2016 Student paper Contest are:

2016 Undergraduate Winners

Prize	Name	Institute
1 st	Davon T.K. Hui	PolyU
2 nd	Lao Lap Hou	OUHK
3 rd	Kung, Wing Chun	PolyU



Davon T.K. Hui
1st Prize



Lao Lap Hou
2nd Prize, OUHK

Chapter activities:

Information Theory Chapter

In 2016, the IT Chapter organized a series of activities to celebrate the centennial birthday of Claude E. Shannon, the father of information theory.

Distinguished lecture by Prof. Alex Holevo

Prof. Holevo is the 2016 Shannon award recipient, for his fundamental contributions to quantum information theory. He gave a talk on the capacity of quantum channels as part of the seminar series on complex systems, networks, control and applications, co-organized by The Hong Kong Polytechnic University and City University of Hong Kong.



Details of seminar by Prof. Holevo:-

Date	6th May 2016
Time	6:30 pm to 7:30 pm
Venue	City University of Hong Kong
Poster	http://www.cs.cityu.edu.hk/~cheewtan/sc/CityUSeminar_Holevo.pdf
Organizers	City University of Hong Kong The Hong Kong Polytechnic University IEEE Information Theory Hong Kong Chapter

Shannon Centenary Workshop

Date	19th May 2016
Time	1:30 pm to 6:10 pm
Venue	The Chinese University of Hong Kong
Program	http://www.cs.cityu.edu.hk/~cheewtan/sc/ShannonCentenaryWorkshop.pdf
Organizers	Institute of Network Coding, The Chinese University of Hong Kong

Computer Science Challenge

Date	21st May 2016
Time	9:30 am to 1:00 pm
Venue	City University of Hong Kong
Link	https://cschallenge.cs.cityu.edu.hk/
Organizers	Dept. of Computer Science, City University of Hong Kong Hong Kong Digital Game-based Learning Association


2016 IEEE WIE Affinity Group Activities


The IEEE WIE Affinity Group was formally inaugurated in December 2015. The Exco Members consists of Agnes Wun- Treasurer, Lieny Jang- Chairlady, Dr Paulina Chan – Vice Chairlady, and David Chan- Secretary.

We had the honor of having key guests joining our inauguration, which include Assoc. Prof Dr Supavadee Aramvith, Assoc Prof Rosanna Chan, and Simay Akar.



Summary of WIE HK Chapter 2016 Events:-

Topic	Women in Science and Engineering – Success Stories and Experience Sharing Speakers include – Dr Paulina Chan, CEO, Global Consortium Rosanna Chan, Professor at CUHK Rebecca Chan, Associate, Goldman Sachs Special Guest Speaker: Lady Kao May Wan, Gwen – Chairman, Charles K Kao Foundation
Date	20 April 2016 (Wednesday)
Time	6:30 PM to 9:30 PM
Venue	The Helena May, Hong Kong
	
(Group Photo of all the attendees)	

Topic	Stay Motivated in a STEM Industry Speakers include – Alice Li, Director of Marketing, Microsoft Jeanne Lim, CMO, Hanson Robotics Nancy Ting, Head of SMB Marketing, Google Vicki Dawkins, President Asia Pacific, Emerson Moderated by Lieny Jang, Director of Communications, Emerson
Date	20 April 2016 (Wednesday)
Time	12:30 PM to 2:00 PM
Venue	HKUST Business School Central, Hong Kong
	
(Group Photo of the Panel Speakers)	

Topic	WIE Exco Mentoring to High School Girls of Pope Paul VI College
Date	10 November 2016 (Thursday)
Time	8:00 AM to 9:30 PM
Venue	Pope Paul VI College, 8 Lei Pui St, Kwai Chung



(Speakers sharing their experiences to the high school girls of Pope Paul VI College)

Technology and Engineering Management (TEM14) Chapter

2017 Chapter Officers

	Name	Affiliation
Chair	Dr. Edwin CHEUNG	IVE
Vice-Chair	Prof. XIE Min	CityU
Treasurer	Dr WL HA	Computime Ltd
Secretary	Dr Walter FUNG	Poly U

IEEE International Conference on Industrial Engineering and Engineering Management (IEEM2017) by (TEM14)



The IEEE International Conference on Industrial Engineering and Engineering Management (IEEM) is the leading international forum to disseminate, to all branches of industries, information on the most recent and relevant research, theories and practices in IEEM. All submissions are subjected to rigorous review before an acceptance decision is made. This conference has been hosted by leading universities in Asia and has been attended by around 500 participants from 50 countries each time.

IEEM conferences link researchers and practitioners from different branches of industrial engineering and engineering management from around the world. Built on the experience of the earlier conferences, IEEM has been a conference of very high standard. IEEM conferences have been held in major

destinations such as Bangkok, Hong Kong, Macao and Singapore.

This year, IEEM2017 will be held from **10-13 December, 2017 in Singapore.**

Papers on the following topics are welcome:

KEYNOTE SPEAKERS



Andy NEELY
University of Cambridge
United Kingdom



Benjamin W. WAH
The Chinese University of Hong Kong
Hong Kong SAR

Submit Your Paper Now!

For Conference Updates, Bookmark www.ieem.org

Electromagnetic Compatibility (EMC) Chapter

Distinguished Lecturer by Prof. Ramachandra Achar

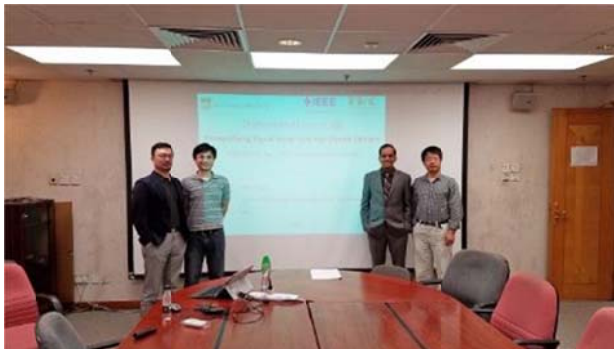
On May 16th 2016, the IEEE Hong Kong EMC Society and The University of Hong Kong co-organized a Distinguished Lecturer Talk by Professor Ramachandra Achar. This is the second Distinguished Lecturer Talk on high-speed circuit since December 2015. The lecture topic of this time was "Demystifying Signal Integrity in High-Speed Designs".

Prof. Achar from Canada is currently the listed lecturer in IEEE EMC Society Distinguished Lecturer Program. With the increasing demand of faster and physically smaller high-speed system such as integrated circuit, circuit board and even multi-chip modules, the lecture explained various challenges on ensuring the signal integrity in different systems. Prof. Achar emphasized many signal integrity effects can actually be foreseen/analysis with proper modelling techniques during the design phase.

More than 20 attendees who are from integrated-circuit industries and some from research sector. Prof. Achar prepared the lecture in an excellent way so that attendees with different levels of technical knowledge would understand the lecture easily. Great echo was received from our attendees in the Q&A session.



During the lecture



From left to right: Jeffrey Tsang (Chapter Chairman), George Chan (Chapter Secretary), Prof. Ram Achar, Prof. LiJun Jiang (The University of Hong Kong)

Technical seminar on the topic “What you need to know on EMC in Railway Systems”

On November 19th 2016, the IEEE Hong Kong EMC Society and The City University of Hong Kong co-organized a technical seminar on the topic “What you need to know on EMC in Railway Systems”. This seminar was conducted by three former chairmen of EMC Society Hong Kong: Dr. Peter Leung, Dr. Patrick Wong and Dr. Brian Chan. They all have very extensive experience on providing consultation to local and overseas railway networks and practical on-site testing.

The seminar consisted of three parts: “EMC management in Railway Systems” by Dr. Leung, “EMC Test Laboratories for Compliance Matrix in

equipment Level” by Dr. Patrick Wong and “EMC Site Acceptance Test of Railway Systems” by Dr. Brian Chan.

The first part of the seminar was about EMC Management Plan. Dr. Peter Leung presented from a macroscopic view of seeing EMC problem in a Railway system, such as precaution study and analysis on inter- and intra-system of all potential EMC interference within railway network. EMC Management Plan is a top-level plan identifying EMC areas of concerns for the relevant parties to reduce or overcome all EMI concerns.



Photo: Dr. Peter Leung

In the second part of the seminar, Dr. Patrick Wong presented the EMC Compliance Matrix at individual railway equipment level. Compliance Matrix aims for EMC requirement for all key items of equipment of the railway system to be in line with the EM zoning type test requirements. The designated test requirements for individual equipment Compliance Matrix will form the basic building block at equipment level for good EMC management via system integration. Dr. Wong also presented a complete overview of compliance tests according to related EMC standards. Examples on test setup in laboratory conditions and some sample test results were also discussed in Dr. Wong’s presentation.

In the third part of the seminar, Dr. Brian Chan presented the EMC Site Acceptance Test of Railway Systems. The post installation Site Acceptance Test is a final verification process in constructing an EMC Safety document. This process is done by on-site measurement, prior to the commissioning of equipment/systems. This part of the presentation was mainly about aspects of on-site test in line with EN50121. Examples cases were shared by Dr. Chan for showing the difficulties and consideration during the on-site test.



Photo: Dr. Patrick Wong

Great echo was received from audiences. Several questions were asked in regarding to the potential human safety issue due to the EMI generated from complicated Railway system. Also long discussion between audiences and speakers on the intra-system EMC problem between Railway system and Power Grid system was raised.

Call for newsletter activities

12th day of each month is the cut-off date to be included in the newsletter of that month.

- *In word format (*.doc or *.docx)*
- *Each activity can have a maximum of 500 words and 2 photos*
- *Technical and non-technical activities*