

Asia Pacific Region Newsletter

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Message from the Asia-Pacific Board Director

It is my honor to serve as the new director of IEEE Communication Society (ComSoc) Asia Pacific Board (APB) for the term of 2018-2019. The Asia Pacific region, known as Region 10 in IEEE, is the largest region in number of members and geographical area. More than a quarter of all IEEE members are from the AP region and there are more than 13,000 ComSoc members in our region. First of all, I would like to thank past APB director, Professor Takaya Yamazato, and many APB officers and volunteers. Due to their remarkable contribution, APB has been developed as one of the fastest growing regions in membership development and services. APB provides a great platform for all AP members to share information, promote cooperation between academia and industry, and encourage professional activities in our region. Now, to continue this good tradition, we plan to expand perceived activities to everyone, which include technical work, membership development, information services, meetings and conferences, and chapter coordination. Undoubtedly, this will bring many challenges, which require a strong volunteer team. To meet our goals, we have set up a new team who will serve for the next two years.

Saewoong Bahk



Director: Saewoong Bahk (Seoul National University, Korea)

Past Director Takaya Yamazato (Nagoya University, Japan)

Vice Director Wei Zhang (University of New South Wales, Australia)

Vice Director Sumei Sun (Institute for Infocomm Research, Singapore)

Vice Director Tomoaki Ohtsuki (Keio University, Japan)

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Hung-Yun Hsieh (National Taiwan University, Taiwan)

MCC Chair Meixia Tao (Shanghai Jiaotong University, China)

ISC co-Chairs Yao-Win Peter Hong (National Tsing Hua University, Taiwan)

Hiroshi Shigeno (Keio University, Japan)

MDC co-Chairs Byonghyo Shim (Seoul National University, Korea)

Neelesh Mehta (IIS, India)

CCC co-Chairs Youngchul Sung (KAIST, Korea)

Itisa Misra (Jadavpur University, India)

I'd like to ask everyone to become more actively involved in APB activities and to encourage your friends to do so as well. With your strong support, we can continue to provide our members with more opportunities to strengthen our friendship and develop our professional career. Let's make this happen together and continue our tradition.

Saewoong Bahk

IEEE ComSoc Asia/Pacific Board Director

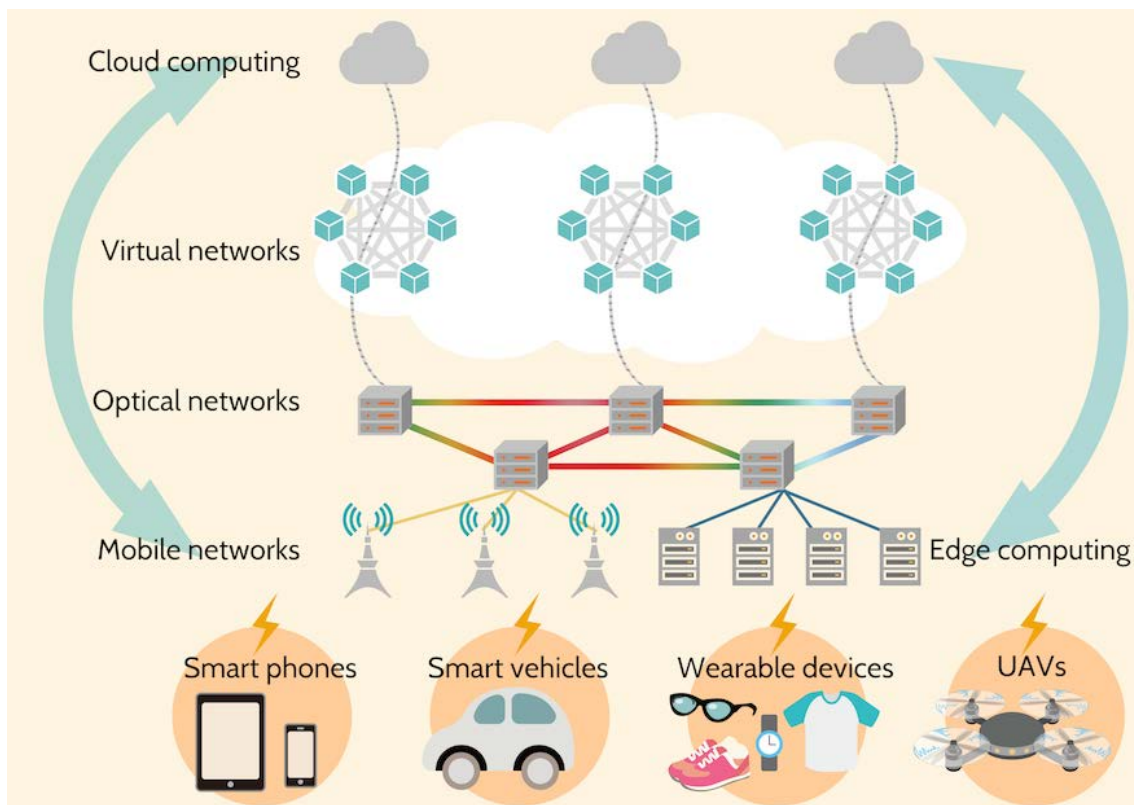
Professor at ECE of Seoul National University, Korea

Trending Topics in the Eyes of IEEE Fellows – Eiji Oki

Intelligent Communications Networking

Dr. Eiji Oki
Kyoto University, Japan

In the era of Internet of Things (IoT), big data, and artificial intelligent, evolution of information and communication networking technologies are required. Information and communication networks connect people and things, including smart phones that collect various data, IoT devices, data centers, clouds bringing values to people, and applications. They are expected to maximize the benefits to people. Oki Laboratory, Kyoto University, Kyoto, Japan, is working on the research and development of high-speed, reliable, and flexible networking technologies, with both theoretical and practical approaches, considering various aspects of social, information, devices, and energy. Some of research topics in our laboratory are described in the following.



Elastic Optical Networking:

We study various aspects of optical networking technologies considering network design and control, systems, and devices. Especially, we research elastic optical networks (EONs), which can assign network resources including routing and spectrum allocation under unpredictable traffic demands. The rapid growth in

world-wide communications and the rapid adoption of the Internet has significantly modified our way of life. The traffic behavior is changing rapidly and the increasing mobility of traffic sources makes grooming more complex. To fulfill the needs of the future Internet, optical transmission and networking technologies are moving toward to the goals of greater efficiency, flexibility, and scalability. EONs, which adopt flexgrid technology, have been shown to be a promising candidate for future high-speed optical communication. An EON has the potential to allocate spectrum to lightpaths according to the bandwidth requirements of clients.

Green Robust Optimization:

Reducing the energy consumption of communication networks is a major concern for network operators due to economic and environmental reasons. Most of the studies on minimizing the network energy consumption assume the knowledge of the exact traffic matrix, which is the set of traffic demands in the network. There are some works on estimating the traffic matrix, but it remains a difficult and exhaustive task for network operators. Further, it is more desirable for operators to avoid frequent dynamic route changes according to traffic fluctuation. We study a green robust optimization strategy to achieve power savings in networks under traffic uncertainty.

Network Softwarization/Virtualization:

Network virtualization techniques enable us to compose, operate, and control networks flexibly and dynamically. Software-defined networking (SDN) technology configures logical networks which support various network services on a single physical network infrastructure. Network function virtualization (NFV) realizes network functions as software executed on commodity servers. We work on network design and development methods in the era of SDN and NFV, which can optimize the efficiency of network/computation resource usage, provide customized services for users adaptively, and achieve high availability and survivability in a cost-effective manner.

Mobile and Social Applications:

These days, people's movement and online social activity logs have been databased to be leveraged for a wide variety of network applications. Particularly, we work on predictive network operation based on users' behaviors. Our research covers a wide variety of network systems, such as for mobile base stations, connected cars, and unmanned aerial vehicles. We study an artificial intelligence/machine learning-based network management methods which bring convenience and efficiency with sufficient security into the physical world.

For detail information, please visit:

<http://icn.cce.i.kyoto-u.ac.jp/english>.

Call for Application/Nomination of APB Awards

Call for Applications of the 13th Asia-Pacific Young Researcher Award

IEEE Communications Society (ComSoc) Asia-Pacific Board (APB) sponsors the “IEEE ComSoc Asia-Pacific Young Researcher Award.” This award honors young researchers who have been active in IEEE ComSoc publications and conference activities over the last three years (January 2015 to December 2017).

Eligibility

- The upper age limit for the applicant is 35 (i.e., the applicant must be born on or after 1982/01/01).
- The applicant must be a member of the IEEE ComSoc Asia-Pacific region.
- The “IEEE ComSoc Asia-Pacific Best Young Researcher Award” will be given to the best candidate, and other candidates will be considered for the “Outstanding Young Researcher Award(s)”.

Award Prize

- The recipient of “IEEE ComSoc Asia-Pacific Best Young Researcher Award” will receive a certificate and an honorarium of US \$500.
- Each recipient of the “IEEE ComSoc Asia-Pacific Outstanding Young Researcher Award” will receive a certificate and an honorarium of US \$250.

Selection Process

Please email an application to apb-officers-tac@ieee.org with the subject of “**2018 Asia-Pacific Young Researcher Award Application**” before the deadline. The application should be a single PDF file containing:

- A cover page that contains the applicant's name, affiliation, mailing address, telephone, and e-mail address.
- The applicant's biography (no more than 400 words).
- A description of the applicant's major research contributions over the last 3 years, including clear discussions of three most representative publications (e.g., journal/conference/magazine papers and monographs) published over the last three years (no more than two A-4 pages). For each publication, please provide SCI and Google citation information, impact factor (if applicable), significance of the publication, and the applicant's own contribution to the publication.
- A complete list of publications and conference activities (over the last 3 years only), and the SCI/Google Scholar citations and H-index (of the entire career).
- Awards/recognitions received (over the last three years only).

The last three years refer to the duration between January 2015 and December 2017. A publication accepted but not officially published by December 2017 should NOT be included in the application. An application not adhering to the above guidelines will not be considered.

Important Dates

- Application Submission Deadline: July 31, 2018
- Announcement of Awardees: October 1, 2018
- Award Ceremony at IEEE Globecom 2018 (December 2018)

Applications and inquiries should be directed to the following email address.

APB Technical Affairs Committee: apb-officers-tac@ieee.org

Call for Nominations of the 7th Asia-Pacific Outstanding Paper Award

IEEE Communications Society (ComSoc) Asia-Pacific Board (APB) sponsors "IEEE ComSoc Asia-Pacific Outstanding Paper Award." This award honors outstanding original papers authored by members in the Asia-Pacific region and published in IEEE ComSoc journals and conferences over the last three years (January 2015 to December 2017).

Eligibility

- The paper must be published in IEEE ComSoc journals, magazines, conference proceedings, and so on (including those technically co-sponsored by ComSoc) in the last three years (January 2015 to December 2017).
- All authors' affiliations must be from the Asia-Pacific region at the time of publication.
- The paper should be nominated by an IEEE ComSoc member from the Asia-Pacific region.
- Self-nomination is not accepted.

Remark: A list of IEEE ComSoc journals and conference portfolio events can be found at:

<http://www.comsoc.org/publications/journals> and <http://www.comsoc.org/conferences/portfolio-events>

Award Prize

- Plaque and honorarium up to US \$500 (award total).

Selection Criteria

- Quality, originality, utility, timeliness, and clarity of presentation.

Nomination and Selection Processes

IEEE ComSoc APB will constitute a selection committee to select the award recipient from the eligible nominees.

Please email a nomination to apb-officers-tac@ieee.org with the subject of "**2018 Asia-Pacific Outstanding Paper Award Nomination**" before the deadline. The nomination should be a single PDF file containing:

- A cover page that contains the nominator's name, affiliation, address, telephone, and e-mail address.
- Information of the nominated paper, including title, authors' names, affiliations, source (conference/publication details), publication date, and the authors' contact information.
- A copy of the nominated paper.
- Letter of recommendation (one A-4 page).
- Number of SCI and Google scholar citations, impact factor if applicable.

Important Dates

- Nomination Submission Deadline: July 31, 2018
- Announcement of Awardees: October 1, 2018
- Award Ceremony at IEEE Globecom 2018 (December 2018)

Applications and inquiries must be sent to the following address by e-mail.

APB Technical Affairs Committee: apb-officers-tac@ieee.org

Report on Distinguished Lecturer Tours in the AP Region

Up to this point, IEEE Communications Society has already approved 12 Distinguished Lecturer Tours in the Asia Pacific Region. We are excited for the success of those that have already taken place and also for those that are coming up soon. We are on track to having another successful year of DLTs in the Asia-Pacific region. The followings are the descriptions and reports of these DLTs.

2018 AP DLT #1: March 26 – April 1, 2018

Distinguished Lecturer: Prof. Hsiao-Hwa Chen

Hosting Chapter	2018 Section / Chapter Chair
Beijing Chapter	Tao Xiaofeng

Prof. Hsiao-Hwa Chen delivered a lecture series at the following locations:

1. Guangzhou City, China – 27 March 2018

Lecture Venue: School of Electronics and Communication Engineering, Sun Yat-Sun University

2. Nanning City, China – 29 March 2018

Lecture Venue: Guangxi University

3. Guilin City, China – 31 March 2018

Lecture Venue: Guilin University of Electronic Technologies

2018 AP DLT #2: 1-13 March 2018

Distinguished Lecturer: Prof. Tony Q. S. Quek

Hosting Chapter	2018 Section / Chapter Chair
Chengdu Chapter	Zheng Ma
Beijing Chapter	Xiaofeng Tao

Prof. Tony Q. S. Quek delivered a lecture series at the following locations:

1. Sichuan, China – 1 March 2018

Lecture Venue: University of Electronic Science and Technology of China

2. Sichuan Sheng, China – 6 March 2018

Lecture Venue: Southwest Jiaotong University

3. Beijing, China – 12 March 2018

Lecture Venue: Beijing Jiaotong University and University of Science and Technology Beijing

2018 AP DLT #3: 18 – 24 March 2018

Distinguished Lecturer: Prof. Tony Q. S. Quek

Hosting Chapter	2018 Section / Chapter Chair
Seoul Chapter	Sunghyun Choi

Prof. Tony Q. S. Quek delivered a lecture series at the following locations:

1. **Seoul, Korea – 19 March 2018**
Lecture Venue: Yonsei University
2. **Seoul, Korea – 20 March 2018**
Lecture Venue: Seoul National University
3. **Seoul, Korea – 21 March 2018**
Lecture Venue: Korea University
4. **Seoul, Korea – 22 March 2018**
Lecture Venue: Kyung Hee University
5. **Seoul, Korea – 23 March 2018**
Lecture Venue: Sungkyunkwan University

2018 AP DLT #4: 6-13 March 2018

Distinguished Lecturer: Dr. Shui Yu

Hosting Chapter	2018 Section / Chapter Chair
Vietnam Chapter	Dao Ngoc Chien
Xian Chapter	Jiandong Li

Dr. Shui Yu delivered a lecture series at the following locations:

1. **Ha Noi, Vietnam – 8 March 2018**
Lecture Venue: Ha Noi University of Science and Technology, Le Quy Don Technical University
2. **Ho Chi Minh City, Vietnam – 10 March 2018**
Lecture Venue: Post and Telecommunications Institute of Technology
3. **Xi'an, China – 12 March 2018**
Lecture Venue: Xiding University, Xi'an Jiaotong University
4. **Xi'an, China – 13 March 2018**
Lecture Venue: NorthWest Polytech University, Shanxi Normal University

2018 AP DLT #5: 28 March – 8 April 2018

Distinguished Lecturer: Prof. Angela Yingjun Zhang

Hosting Chapter	2018 Section / Chapter Chair
Beijing Chapter	Xiaofeng Tao
Nanjing Chapter	Lianfeng Shen
Shanghai Chapter	Xinwan Li

Prof. Angela Yingjun Zhang delivered a lecture series at the following locations:

1. Beijing, China – 29 March 2018

Lecture Venue: Tsinghua University

2. Nanjing, China – 3 April 2018

Lecture Venue: Southeast University

3. Shanghai, China – 6 April 2018

Lecture Venue: Shanghai Jiaotong University

2018 AP DLT #6: 18-28 Apr. 2018**Distinguished Lecturer: Prof. Tony Q. S. Quek**

Hosting Chapter	2018 Section / Chapter Chair
Shanghai Chapter	Xinwan Li
Taipei Chapter	Yao-Win Peter Hong

Prof. Tony Q. S. Quek delivered a lecture series at the following locations:

1. Shanghai, China – 18 April 2018

Lecture Venue: ShanghaiTech University and Fudan University

2. Taipei, Taiwan – 26 April 2018

Lecture Venue: National Taiwan University

3. Hsinchu, Taiwan – 27 April 2018

Lecture Venue: National Tsing Hua University

2018 AP DLT #7: 23-30 July 2018**Distinguished Lecturer: Prof. Marco Di Renzo**

Hosting Chapter	2018 Section / Chapter Chair
Singapore Chapter	Teng Joon Lim
Taipei Chapter	Yao-Win Hong Peter
Shanghai Chapter	Xinwan Li
Vietnam Chapter	Nguyen Huu Thanh

Prof. Marco Di Renzo will deliver a lecture series at the following locations:

1. Singapore – 23 July 2018**2. Taipei, Taiwan – 25 July 2018****3. Guangzhou, China – 27 July 2018****4. Ho Chi Minh City, Vietnam – 30 July 2018****2018 AP DLT #7: 5 - 17 May 2018****Distinguished Lecturer: Dr. Andreas Molisch**

Hosting Chapter	2018 Section / Chapter Chair
Tokyo Chapter	Hidenori Nakazoto
Beijing Chapter	Xiaofeng Tao
Shanghai Chapter	Xinwan Li
Shenzen Chapter	Simon Pun

Dr. Andreas Molisch delivered a lecture series at the following locations:

1. **Tokyo, Japan – 7 May 2018**
2. **Yokosuka, Japan – 8 May 2018**
3. **Beijing, China – 10 May 2018**
4. **Shanghai, China – 14 May 2018**
5. **Shenzhen, China – 16 May 2018**

2018 AP DLT #8: 29 July - 4 August 2018

Distinguished Lecturer: Dr. R Venkatesha Prasad

Hosting Chapter	2018 Section / Chapter Chair
New Zealand Chapter	Nurul I Sarkar

Dr. R Venkatesha Prasad will deliver a lecture series at the following locations:

1. **Wellington, New Zealand – 30 July 2018**
Lecture Venue: Victoria University of Wellington
2. **Palmerston North, New Zealand – 31 July 2018**
Lecture Venue: Massey University, Palmerston North
3. **Christchurch, New Zealand – 2 August 2018**
Lecture Venue: The University of Canterbury
4. **Fiji – 4 August 2018**
Lecture Venue: The University of Fiji

2018 AP DLT #9: 29 July - 4 August 2018

Distinguished Lecturer: Prof. Tony T. S. Quek

Hosting Chapter	2018 Section / Chapter Chair
Xian Chapter	Jiandong Li

Prof. Tony T. S. Quek will deliver a lecture series at the following locations:

1. **Kunming, China – 29 July 2018**
Lecture Venue: Yunnan University
2. **Xian, China – 2 July 2018**
Lecture Venue: Xidian University

3. Xian, China – 24 July 2018

Lecture Venue: Xian Jiaotong University

2018 AP DLT #11: 22 - 18 July 2018

Distinguished Lecturer: Dr. Suresh Subramaniam

Hosting Chapter	2018 Section / Chapter Chair
Kolkata Chapter	Iti Saha Misra
Hyderabad Chapter	Sanjeev Nimishakavi
Bangalore Chapter	Navin Kumar
Kerala Chapter	Lillykutty Jacob

Dr. Suresh Subramaniam will deliver a lecture series at the following locations:

1. Kolkata, India – 23 July 2018
 2. Hyderabad, India – 24 July 2018
 3. Calicut, India – 25 July 2018
 4. Bangalore, India – 27 July 2018
-

2018 AP DLT #12: Early June 2018

Distinguished Lecturer: Shui Yu

Hosting Chapter	2018 Section / Chapter Chair
Beijing Chapter	Xiaofeng Tao

Dr. Shui Yu will deliver a lecture series at the following locations:

1. Beijing, China – June 2018
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What's Up on the Asia-Pacific Board? – APB Committee Reports

Technical Affairs Committee (TAC)

Action Plan 2018-2019

- TAC will promote and select outstanding active young researchers for the 13th Asia-Pacific Young Researcher Award. Call for applications of the award is included in this newsletter.
- TAC will also promote and select outstanding original papers for the 7th Asia-Pacific Outstanding Paper Award. Call for nominations of the award is included in this newsletter.

Meeting and Conference Committee (MCC)

MCC coordinates meeting and conference activities in the APB region. Please see “Upcoming Conferences” for a list of upcoming conferences in the IEEE Communications Society.

Information Services Committee (ISC)

The main task of ISC is to publish semi-annual APB Newsletters for release during the IEEE ICC and Globecom conferences, manage the APB homepage, manage the APB email broadcast to its members, and liaise the contribution to the IEEE Global Communication Newsletter (GCN).

- For the APB Newsletter, in addition to conventional topics such as call for awards, DLT report, and committee/local chapter activity report, ISC continues to look for new design ideas in terms of layout and content to bring better awareness of the APB and improve bonding of members.
- For the APB homepage, after migrating to the new hosting site, ISC continues to improve the look, content, and functionality of the APB homepage, such as the inclusion of information from sister societies.
- For the email broadcast, ISC takes care of dissemination of call for papers/participation under approval of AP Director, announcement of homepage and newsletter updates, approval of subscription requests, and so on. ISC is currently looking to improve two-way interactions between the APB and its members.

Membership Development Committee (MDC)

- MDC focuses on promoting and furthering the interests of individual members in AP region to increase member retention, renewal, recruitment, and recognition
- What should we do?
 - Various activities needed: training, seminar, awards, travel awards
 - Promote programs: Distinguished Lecturer Tours Program (DLT), Distinguished Speaker Program (DSP)
 - Try to set up a program to support for young researchers
- IEEE ComSoc AP Region Regional Chapter Chairs Congress (Dec. 2017 Singapore)
 - Welcome and introduction, technical activities and industry outreach, Q&A session about ComSoc, ComSoc APB report, Best practices for the AP region (Kolkata chapter), reports from selected chapter, open discussion, AP-RCCC wrap up

Chapter Coordination Committee (CCC)

Mission of CCC

- to plan and coordinate the Regional Chapter meeting once a year where possible
- to collaborate with the AP Office in running the DLT program
- to support the AP Office in organizing Executives' visit to Chapters

In the past several years, we were very successful in accommodating all the above mission items. A good number of Distinguished Lecture Tours and pilot program of technical presentation using the IEEE Internet Conferencing Service have been organized in the AP Region.

CCC Action Plan

- to continue assistance in selection and organization of high level Distinguished Lecturer Tours in the region
- to negotiate with the APB Director for funding for the next Asia Pacific Regional Chapters Chair Congress
- to plan for organizing the next regional chapter meeting once or twice during 2010-2011 period
- to search and assist in organizing executives' visits to Chapters
- to find alternative and less expensive methods for Chapter Chairs meetings

Upcoming Conferences

Conference Name	Conference Date	City	Country	Paper Deadline
IEEE SECON 2018	June 11-13, 2018	Hong Kong	China	Dec. 29, 2017
IEEE/CIC ICC 2018	Aug. 16-18, 2018	Beijing	China	May 15, 2018
IEEE PIMRC 2018	Sept. 9-12, 2018	Bologna	Italy	April 20, 2018
MILCOM 2018	Oct. 29-31, 2018	Los Angeles	USA	May 15, 2018
IEEE DySPAN 2018	Oct. 22-25, 2018	Seoul	South Korea	May 21, 2018
IEEE SmartGridComm 2018	Oct. 29- Nov. 01, 2018	Aalborg	Denmark	May 31, 2018
IEEE Globecom 2018	Dec. 9-13, 2018	Abu Dhabi	UAE	April 30, 2018
OFC 2019	Mar. 3-7, 2019	San Diego	USA	Oct. 9, 2018
IEEE WCNC 2019	Apr. 15-18, 2019	Marrakech	Morocco	NA
IEEE INFOCOM 2019	Apr. 29-May 2, 2019	Paris	France	July 24, 2018
IEEE ICC 2019	May 20-24, 2019	Shanghai	China	Oct. 14, 2018

Asia-Pacific Region Officers (2018– 2019)

Director:

Saewoong Bahk

Past Director:

Takaya Yamazato

Vice Directors:

Tomoaki Ohtsuki

Sumei Sun

Wei Zhang

Secretary and Treasurer:

Jemin Lee

AP Office:

Ewell Tan

Munir Mohammed

ComSoc Liaison:

Hsiao-Hwa Chen

Nei Kato

Borhanuddin Mohd Ali

Technical Affairs Committee:

Chairs: Sunghyun Choi
Hung-Yun Hsieh

Vice Chairs: Lingyang Song
Tony Q.S. Quek

Meetings & Conferences Committee:

Chairs: Meixia Tao

Vice Chairs: Chan-Byoung Chae

Information Services Committee:

Chairs: Y.-W. Peter Hong
Hiroshi Shigeno

Vice Chairs: Mianxiong Dong
Liquan Fu

Membership Development Committee:

Chairs: Byonghyo Shim
Neelesh Mehta

Vice Chairs: Hsuan-Jung Su

Chapters Coordination Committee:

Chairs: Youngchul Sung
Iti Saha Misra

Vice Chairs: Sheng Zhou
Koji Yamamoto

Advisors:

Tomonori Aoyama (Keio University)

Kwang-Cheng Chen (National Taiwan University)

Daehyoung Hong (Sogang University)

Noriyoshi Kuroyanagi (Chubu University)

Byeong Gi Lee (Seoul National University)

Kwang Bok Lee (Seoul National University)

Lin-Shan Lee (National Taiwan University)

Wanjiun Liao (National Taiwan University)

Zhisheng Niu (Tsinghua University)

Naohisa Ohta (Keio University)

Iwao Sasase (Keio University)

Desmond Taylor (University of Canterbury)

Naoaki Yamanaka (Keio University)