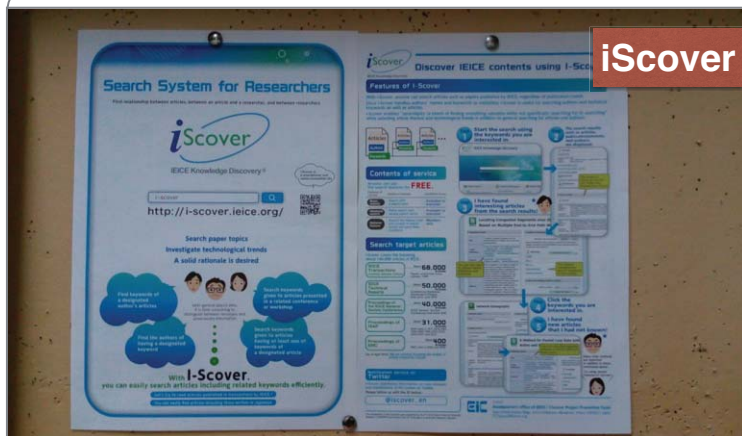


IEICE Indonesia Section

Background

IEICE Indonesia Section was established in 2004 and has been based in Institut Teknologi Bandung (ITB), especially at the School of Electrical Engineering and Informatics. ITB as an academic institution always seek international collaborations to enhance foundation on science engineering, and arts. IEICE has been one contributor in promoting science and engineering in Indonesia by conducting several joint seminars and knowledge exchanges.

Activities in 2015/2016



- Promoting iScover and introducing IEICE conferences and publications.
- ITB's Rector contribution in IEICE Global Plaza

IEICE Roles

- IEICE provides promotion materials, including accessible website to promote and educate users in IEICE knowledge discovery.
- Member database to distribute IEICE activities

Role Assignment

All section's activities is handled by a representative:

Dr. IGB Baskara Nugraha
(baskara@stei.itb.ac.id)
with 4 advisory boards.



Section's Advisory Board



Prof. Suhono H. Supangkat



Prof. Andriyan B. Sukmono



Dr. Achmad Munir



Dr. Jaka Sembiring

Current R&D Activities

Current research and development activities are mainly on smart city and community projects to enhance the quality of life of the people in Indonesian communities.

Research and Collaboration Interest

Our members have research interests mostly in radar and remote sensing, stochastic systems, smart city, and multimedia data understanding. Hence, we are expecting collaborations in the fields of the Internet of things technology, multimedia data understanding and deep learning, and big data analytics.

Activity Plan in 2016/2017

- Promoting IEICE publications, including iScover and IEICE's sponsored conferences
- Promotong IEICE activities and its importances to related faculty members and students in Indonesia by using online and social media

IEICE Indonesia Section's Address

IEICE Indonesia Section
Information Technology Research Group,
School of Electrical Engineering and Informatics
Institut Teknologi Bandung, Jl. Ganesha
10, Bandung 40132, Indonesia
Email: baskara@stei.itb.ac.id

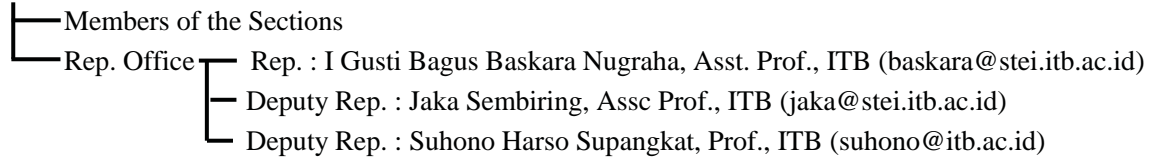
Annual Activity Report of IEICE Indonesia Section

Date of Report : 17 March 2016

Reporter : I Gusti Bagus Baskara Nugraha, Asst Prof., Bandung Institute of Technology (ITB)

1. Organization

Assembly of the Section



2. Strategy of the Section

IEICE Indonesia Section will encourage current IEICE members and potential members, especially younger generation in Indonesia to more positively join IEICE activities through participation in events organized by the Section so that they will enhance or share their knowledge and experience to construct the future prosperous society.

3. Action Plan of the Section Stated in 2015 All Sections Meeting

(1) Promoting IEICE publications and I-Scover

Currently IEEE, ACM, and Springer publications are the well-known sources of literatures to obtain the state-of-the-art knowledge in the fields of electronics, communication, and information engineering. Hence, we introduce IEICE transactions, especially the English version of the transactions with the use of I-Scover, to faculty member and students in the fields of electrical engineering, computer science, and information systems and technology so that the membership of the Section will be enhanced.

(2) Introducing IEICE activities and IEICE sponsored conferences

IEICE, including its activities, has rarely been known by academia in Indonesia. Hence, we are promoting IEICE activities through personal channel, e.g., personal social media account, and academic events, e.g., distributing leaflets.

4. Results of Activities during the 2015 Fiscal Year (April 2015 ~ March 2016)

4.1 Conference/Symposium/Workshop

The 2015 Asia-Africa Smart City Summit was held in conjunction with the 60 anniversary of 1955 Asia-Africa Conference in Bandung on April 22-23, 2015. Mayors from 25 municipalities from Asia and Africa countries and 446 participants from 39 countries and 69 cities joined the conference. This two-day conference covered several issues, including overpopulation, smart public services, co-creation, technologies to enable smart and sustainable cities in the world trend of urbanization. The conference generated a Bandung Declaration on Smart Cities to build a network, create environmentally friendly cities and boost collaborations among municipalities in the region. Prof. Suhono H. Supangkat, the first Representative of IEICE Indonesia Section organized the conference and members of the Section technically supported the conference. An example of the relevant information is available at:

<http://asia.nikkei.com/Politics-Economy/Economy/Asian-African-mayors-explore-smart-city-concept>

4.2 Sponsored Lecture

We have planned to organize a sponsored lecture on "World trends of information processing and management technologies for big data" and the preferable expert who can deliver the lecture is under negotiation at the moment.

4.3 Improvement of the Section

(1) Academic contribution through IEICE Global Plaza

We have invited several public figures in Indonesia to share their experiences through publication in the IEICE Global Plaza both in Journal and on the Web.:

- Prof. Kadarsah Suryadi**, Rector of ITB, addressed his experiences on "Toward Smart Community through Global Entrepreneurship" in the IEICE Journal, Vol. 99, No. 1, 2016.
- Prof. Suhono Harso Supangkat**, Chairman of the Institute of Innovation and Entrepreneurship Development of ITB (and also the former Representative of IEICE Indonesia Section), shared his vision on "Smart City

Development in Indonesia and Asian-African Nations" with IEICE members through the IEICE Journal, Vol. 98, No. 7, 2015. He introduced his experiences as the pioneer and activist of smart city development in Indonesia and as the Chairman of Asia-Africa Smart City International Conference 2015.

- c. **Dr. Rudi Lumanto**, Chairman of Indonesia Security Incident Response Team on Internet Infrastructure /Coordination Center (ID-SIRTII/CC), provided an article about "Managing Cyber Security Issues for Enhancement of National ICT Development and Sustainability" in the IEICE Journal Vol. 98, No. 3, 2015.

(2) Invited Speech in 2016 IEICE General Conference

We have invited Dr. Yoanes Bandung, one of members of Indonesia Section to give his speech in 2016 IEICE General Conference and introduce himself in the relevant meeting.

5. Review and Future Plan

(1) Items in 2015 Fiscal Year Plan which could not be achieved but still would be expected

We will provide a sponsored lecture (keynote speech) in an international conference. Due to the date of the conference, it will be delivered in July 2016. We will submit the form of application to IEICE Headquarters soon.

(2) Activity Plan in 2016 Fiscal Year

a. Promoting IEICE activities and publications

We will continue to promote IEICE, including its activities and publications through our personal channels because official channel, e.g., section's page at IEICE website, is not available yet. iDiscover must be advertised to be recognized in Indonesia academia.

b. IEICE sponsored lectures in 2016 Fiscal Year

We plan to invite professors from Japan to give lectures in Indonesia. Tentatively, we have invited Prof. Haruhisa Ichikawa from the University of Electro-Communications to give lecture on "Global Trend of Info-Powered Energy System Covering Smart City". This lecture is planned to be delivered on July 2016 at International Conference on ICT for Smart Society (ICISS2016) in Surabaya, Indonesia (<http://iciss2016.mucon.id>), in conjunction with Indonesia International Smart City Expo and Forum 2016 (<http://www.iismex.com/>). We also propose to have IEICE as technical sponsor for this conference.

c. Collaborations with other sections

We are actively involved in the following research areas, but not limited to:

- **Information technology to enable smart city:** Municipalities in Indonesia have been endorsing using information technology to enable smart city concept in their cities. However, available technology cannot be adopted as is without conformance to current business process and regulations. Therefore, novel approaches are needed, e.g., by co-creation and people-centric approach.
- **Electronic payment:** The low number of credit card users in Indonesia hinders the development of ecommerce and other cashless-based transaction system. Hence, we need practical electronic money system, e.g., multi-tenant smart card.
- **Electrical power generation and distribution:** Indonesia consists of thousands of islands that hinders efficient generation and distribution of electrical power supply. We have been testing green electrical power generation at several islands.
- **The Internet of Things (IoT):**IoT is a hot research topic in Indonesia since we really need this technology to enable efficient logistic systems, early warning systems for disaster prevention, mobility management to reduce traffic inefficiency, and so on.

6. Constructive Opinion / Requests / Proposal

We have requested IEICE to provide us with the list of all members of IEICE Indonesia Section to solve difficulties in contacting all members of IEICE Indonesia Section (not available at the moment). We are planning so that everyone of our Section can access to the database of the Indonesia Section (at least their institution and email address) and it will strengthen collaborations among members and solicit them to join IEICE events.