**2012 IEEE Indonesia Section Report**

**PART A - SECTION SUMMARY**

**A.1 Executive Summary**

* **2012 Section Executive Committee Member List**

|  |  |  |  |
| --- | --- | --- | --- |
| Committee | Name | Member No | Email |
| **Section Chair**  | **Muhammad Ary Murti**  | **M: 85018177** | **Ary\_murti@gmail.com** |
| **Vice Chair**  | **Kuncoro Wastuwibowo** | **SM: 40164855** | **kwast@ieee.org** |
| **Secretary**  | **Agnes Irwanti** | **M: 91234155** | **agnes.irwanti@gmail.com** |
| **Treasurer**  | **Prof. Dr. Dadang Gunawan**  | **SM: 470898** | **guna@eng.ui.ac.id** |
| Educational Activities  | Dr. Ayu Purwarianti | M 91298471 | ayu@stei.itb.ac.id |
| Student Activities/ Section Student Representative  | Dr. Abdul Muis Aryo D Wibowo | M: 40203697GSM: 92126216 | amuis@ieee.orgaryo.de.wibowo.ms@gmail.com |
| WIE coordinator | Prof. Dr. Riri Fitri Sari  | SM: 2652998 | riri@eng.ui.ac.id |
| Membership Development  | Lukas Tanutama | SM: 7038789 | ltanutama12@yahoo.com |
| Industry Relations Coordinator/Professional /Technical Activities | Arief Hamdani Gunawan | M: 41345675 | Hamdani2@telkom.co.id  |
| Conference Coordinator | Dr. Ford Lumban Gaol  | M: 90422492 | fordlg@gmail.com |
| Nominations and Appointments Awards and Recognition  | Prof. Dr. John Batubara  | M: 1066661 | jebatubara@yahoo.com |
| ADVISORY BOARD | Prof. Dr. Dadang GunawanDr. Wahidin WahabArnold Ph. DjiwatampuArief Hamdani GunawanDr. Arifin Nugroho | SM: 470898SM: 1999473LSM: 7561699M: 41345675SM: 4805529 | guna@eng.ui.ac.id wahidin.wahab@eng.ui.ac.id arnold@tt-tel.comHamdani2@telkom.co.idarf\_nugroho@yahoo.com |

2013 Elected Section Chair

|  |  |  |  |
| --- | --- | --- | --- |
|  **2013 Section Chair**  | **Kuncoro Wastuwibowo** | **SM: 40164855** | **kwast@ieee.org** |

* **2012 Section Highlights**

This year, Indonesia Section held 4 main Administrative meeting, exncluding meeting with several conference organizers. Indonesia section is Technical Sponsor for 8 Conferences in Indonesia and organizes 2 Conferences (COMNETSAT2012 and CYBERNATICOMS2012), 9 Technical meeting, and 1 Educational Activity.

* **Major Events (International, National)**
	+ COMNETSAT2012 and CYBERNATICOMS2012

Venue : Bali

Date : July 2012

* **Major Chapter Activities**

IEEE Indonesia Section and IEEE Comsoc Indonesia Chapter held an IEEE Tutorial Series on Cloud & Ubiquitous Computing in Bandung, Jakarta, Surabaya and Jogjakarta. The Speakers on this Tutorial series are:

1. Kuncoro Wastuwibowo – Ubiquitous and Context-Aware Computing
2. Satriyo Dharmanto – Cloud Computing
3. Arief Hamdani Gunawan – Ubiquitous Mobile Computing
* **Major Student and Affinity Group Activities**
1. **Student Activity : IEEEXtreme 6.0 Global Programming Competition**

IEEE Indonesia Section has just received a great news. This year, the IEEEXtreme 6.0 Global Programming Competition has just been carried out to recognize some of the world’s top up-and-coming programmers.The grand prize winner was DongskarPedongi from Institut Teknologi Bandung of Indonesia. They will receive an expenses-paid trip to an IEEE conference of their choice, anywhere around the world.

Three students from Informatics Engineering, School of Electrical Engineering and Informatics, ITB, joined together as the Dongskar Pedongi team, managed to defeat 1940 team from around the world and grabbed the champion title of IEEExtreme. This team consists of Ronny Kaluge (Informatics Engineering 2008), Irvan Jahja (Informatics Engineering 2009), and Christianto Handojo (Informatics Engineering 2010). Another team from ITB also participate in this competition, with Reinhard Dennis (Informatics Engineering 2009), Edwin Lunando (Informatics Engineering 2009), and Jordan Fernando (Informatics Engineering 2010) as its member.

Dongskar Pedongi became the first winner after defeating another 1940 teams. The second and third place were Los Desempleados from Universidad Nacional de Ingenieria, Peru, and Meeyo from University of Moratuwa, Sri Lanka.  This is a great achievement from ITB’s student. Congratulations for Dongskar Pedongi and may this victory bring many more further achievement in international, as well as in national competition.

1. **Student Activity : IEEE Region 10 Paper Contest**

2nd Place in Undergraduate Paper contest IEEE Region 10: Reynhard Josian Sembiring, Ahmad Shaugi, Adityo Abdi Nugroho (University of Indonesia)

"Design and Implementation of Motorcycle Security System Based on RFID"

1. **WIE**

IEEE Indonesia Section in cooperation with IEEE Women in Engineering has just carried out a joint activity to commemorate Kartini Day on Saturday, April 21st 2012. The event was titled IEEE Tutorial Series on Advancing Technology for Humanity, and conducted at the Orchid Auditorium Campus, University of Bina Nusantara.

Ms Nelly, the Vice Rector of the University of Bina Nusantara commenced the programme. Representing the IEEE, the Indonesia Section Vice Chair Kuncoro Wastuwibowo spent 5 minutes to welcome the participants. However, after the opening, all materials were presented by the women-engineers, with styles that show the strength of women engineers in Indonesia:

1. Dr. How Wie Chie, Dean of the Faculty of Engineering, Binus University
2. Hardyana Syintawati, VP of Marcom, Ericsson Indonesia
3. Erina Tobias, Director of Engineering TVRI
4. Agnes Irwanti, Multikom Business Development Director

**A.2 Financial Report**

* **Summary (as per submitted L50)**



**PART B - ORGANIZATIONAL ACTIVITIES**

**B.1 Membership Development Activities**

* **Total number of active members in the past 3 years.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Membership Category**  | **2008** | **2009** | **2010** | **2011** | **2012** |
| Member | 210 | 214 | 271 | 460 | 538 |
| Senior M  | 5 | 8 | 8 | 8 | 9 |
| Student M  | 19 | 56 | 99 | 115 | 264 |
| GSM  | 24 | 38 | 82 | 91 | 145 |
| AM  | 13 | 16 | 18 | 26 | 25 |
| Fellow  | 0 | 0 | 0 | 0 | 0 |
| Honorary  | 0 | 0 | 0 | 0 | 0 |
| **Total**  | **271** | **332** | **478** | **700** | **981** |

2012: SAMIEEE 31 Des 2012

* **Summary and evidence of work done to improve the value of membership, which leads to retention and growth of members**

Create many activity includng conference, tutorial, workshop, and offer free or special discount for members and publish all event to public as promote IEEE.

* 1. **Course on Small Cell**

Venue : Institut Teknologi Telkom, Bandung

Date : 14 April 2012

Speaker : Arief Hamdani Gunawan, Anto Sihombing, Kuncoro Wastuwibowo

Organized by : Indonesia Section, COMSOC Chapter, Institut Teknologi Telkom

Attendance : 10 members, 190 non members

Meeting Type : Technical

Agenda : Small Cell, Update from Small Cell Forum Cognitive Radio

* 1. **IEEE Cloud Computing Lecture**

Venue : ITB, Bandung

Date : 3 August 2012

Speaker : Satriyo Dharmanto

Organized by : Indonesia Section, Institut Teknologi Bandung

Attendance : 10 members, 73 non members

Meeting Type : Technical

Agenda : Cloud Computing Public Lecture

* 1. **Course on Cloud Ecosystem and Cloud Architecture**

Venue : Institut Teknologi Telkom, Bandung

Date : 11 August 2012

Speaker : Satriyo Dharmanto, Arief Hamdani Gunawan

Organized by : Indonesia Section, COMSOC Chapter, Institut Teknologi Telkom

Attendance : 10 members, 40 non members

Meeting Type : Technical

Agenda : Course on Cloud Ecosystem and Cloud Architecture

* 1. **Introduction to Robotics**

Venue : Universitas Advent Indonesia, Bandung

Date : 9 September 2012

Speaker : Endra Joelianto

Organized by : Indonesia Section, Indonesia Join Chapter of RAS & CSS

Attendance : 10 members, 40 non members

Meeting Type : Technical

Agenda : Introduction to Robotics

* 1. **ITSEC and Cloud Security awarnes Day**

Venue : Telkom Gatot Subroto, Jakarta

Date : November 27th 2012

Speaker : Charles Lim, Niksum

Organized by : Indonesia Section, ICION, Telkom

Attendance : 2 members, 18 non members

Meeting Type : Technical

Agenda : IT Security and Cloud Security

* 1. **Cloud Infrastructure and Resource Management**

Venue : Bandung Techno Park, Bandung

Date : 1 December 2012

Speaker : Arief Hamdani Gunawan, Satriyo Dharmanto

Organized by : Indonesia Section, COMSOC Chapter, ITTelkom Student Branch

Attendance : 5 members, 15 non members

Meeting Type : Technical

Agenda : Cloud Infrastructure and Resource Management

* 1. **Industrial Wireless ISA 100.11a**

Venue : Institut Teknologi Bandung

Date : 8 December 2012

Speaker : Arief Hamdani Gunawan, Endra Joelianto

Organized by : Indonesia Section, Indonesia Join Chapter of RAS & CSS

Attendance : 5 members

Meeting Type : Technical

Agenda : Industrial Wireless 100.11a

* 1. **Workshop on Digital Printing Ecosystem**

Venue : Telkom, Graha Citra Caraka, Jakarta

Date : 17 Desember 2012

Speaker : Kuncoro Wastuwibowo, Muhammad Ary Murti

Organized by : Indonesia Section, Institut Teknologi Bandung

Attendance : 4 members,3 non members

Meeting Type : Technical

Agenda : 1. Digital Book
 2. Papers Management for Conference

* 1. **Industrial Ubiquitous Mobile and Cloud Computing Lecture**

Venue : Institut Teknologi Telkom

Date : 24 December 2012

Speaker : Arief Hamdani Gunawan, Kuncoro Wastuwibowo

Organized by : Indonesia Section, SB ITT

Attendance : 7 members

Meeting Type : Technical

Agenda : The scope of this lecture is to provide an introduction to cloud ecosystems, focusing on integration and support of the cloud computing model and technologies in telecommunication environments as well as mobile environments. The lecture addresses:
- Cloud computing related definitions and taxonomies based on the current status of the art
- Actors and roles of a cloud ecosystem
- Scenarios of inter-cloud
- A set of relevant telecommunication-centric use cases
- High-level requirements for cloud infrastructure and cloud services

**Conference as Organizer:**

1. 2012 Comnetsat

Venue : Inna Grand Beach Hotel, Bali

Date : July 12nd - 14th , 2012

1. 2012 Cybernaticscom

Venue : Inna Grand Beach Hotel, Bali

Date : July 12nd - 14th , 2012

**Conferences as Technical Sponsor:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No** | **CONFERENCE NAME** | **DATE** | **VENUE** | **ORGANIZER** |
| 1 | 2012 International Conference on Cloud Computing and Social Networking (ICCCSN) | 26 - 27 Apr 2012 | Grand Preanger Hotel, Bali | STEI ITB |
| 2 | 2012 International Conference on Green and Ubiquitous Technology (GUT) | 30 Jun - 01 Jul 2012 | Jakarta, Indonesia | IAMSIE |
| 3 | 2012 International Conference on Power Engineering and Renewable Energy (ICPERE) | 03 - 05 Jul 2012 | Hotel Ayodya Resort, Bali | STEI ITB |
| 4 | 2012 2nd International Conference on Uncertainty Reasoning and Knowledge Engineering (URKE) | 14 - 15 Aug 2012 | Jakarta, Indonesia | IAMSIE |
| 5 | 2012 22nd Australasian Universities Power Engineering Conference (AUPEC) | 26 - 29 Sep 2012 | Ramada Bintang Bali Hotel | ITS |
| 6 | 2012 7th Telecommunications, Systems, Services, and Applications (TSSA) | 30 - 31 Oct 2012 | Grand Inna Kuta Hotel Kuta Denpasar-Bali  | STEI ITB |
| 7 | 2012 International Conference on Biomedical Engineering and Medical Applications (ICBEMA) | 09 - 10 Nov 2012 | German Centre BuildingSwiss German University  | SGU |
| 8 | 2012 International Conference on Advanced Computer Science and Information Systems (ICACSIS) | 01 - 02 Dec 2012 | Depok, Universitas Indonesia | FASILKOM UI |

**B.2 Chapter Activities**

* Total number of Chapters in the Section : **7**
* Number of Chapters formed in the current year : 0
* Number of Active Chapters (Chapters who have reported required number of meetings during the year) : **5**
* Summary of Chapter activities chapter wise with attachment table / information

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Chapter/Join Chapter** | **Administrative Activities** | **Technical Activities** | **Educational Activities** | **Total Activities** |
| **Communications Society Chapter**  | 2 | 7 | 1 | 10 |
| **Circuits and Systems Society Chapter** |  |  |  |  |
| **Engineering in Medicine and Biology Society Chapter**  |  |  |  |  |
| **Join Chapter** * **Education Society**
* **Electron Devices Society**
* **Power Engineering Society**
* **Signal Processing Society**
 |  |  |  |  |
| **Joint Chapter*** **Microwave Theory and Techniques Society**
* **Antennas and Propagation Society**
 | 10 | 10 | 3 | 23 |
| **Joint Chapter** * **Control System Society**
* **Robotics & Automation**
 | 4 | 2 |  | 6 |
| **Computer Society Chapter**  |  |  |  |  |

**B.3 Professional and Continuing Education Activities**

Summary of continuing Educational activities including conferences, technical activities, training courses, and distinguished lecture programs with attachment table / information

**B.4 Students Activities**

* Total number of Student branches in the Section : **6**
* Number of Student branches formed in the current year : **1**
* Section level student activities (student congress, paper and other contests, awards etc) :
* Number of Active Student branches (Student branches who have reported required number of meetings during the year) : **3**
* Summary of Student branch activities student branch wise with attachment table / information

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Student Branch** | **Administrative Activities** | **Technical Activities** | **Educational Activities** | **Total Activities** |
| Universitas Indonesia (UI) | 10 | 3 | 4 | 17 |
| Institut Teknologi Sepuluh November (ITS) |  |  |  |  |
| Institut Teknologi Telkom (ITTelkom) | 5 | 5 | 1 | 11 |
| Institut Teknologi Bandung (ITB) |  |  |  |  |
| Universitas Gajah Mada (UGM)  | 6 | 2 | 4 | 12 |
| BINUS (New) |  |  |  |  |

**B.5 Affinity Group Activities**

* WIE
	+ Kartini Day

Venue : Binus, Jakarta

Date : April 21st 2012

Speaker : Kuncoro Wastuwibowo, Dr. How Wie Chie, Hardiana Syintawati, Erina Tobing, Agnes Irwanti

Organized by : IEEE Indonesia Section

Attendance : 16 members and 25 guest

Meeting Type : Education

Agenda : Women in Engineering

 **B.6 Awards & Recognition Activities**

* Award constituted by the section --
* Award(s) received from R10 : --
* Award(s) received from IEEE HQ --

**B.7 Communication Activities (Newsletter, Home Page, E-mail etc.)**

* Newsletter (name and number of issues in the year): --
* Home Page of the section (give the URL and frequency which it is updated): http://ieee.web.id/
* Other means of contacts with section members : facebook

**B.8 Community Activities**

**B.9 Other Organizational Activities**

**PART C - OTHERS**

## C.1 Relationship with National Societies

**C.2 Special Events**

**C.3 Problems to be Anticipated**

* Coordination among chapters and student branches.

**C.4 Best Practices of your section (which you would like share with other
 sections for the benefits of members)**

* Encourage student branches to establish technical activities is very useful for introducing IEEE to other students, also conferences supported by IEEE Indonesia is very useful for introducing IEEE to lecturers and researchers in Indonesia.

**PART D - GOALS AND PLANS**

**D.1 Continuation of Project/Activity in Progress and Their Implementation
 Plans**

Establish our own conferences, they are :

* Cybernetics 2012, Bali, July 2012
* ComNetSat 2012, Bali, July 2012
* ICCSII2012, Bandung, September 2012
* ISGTS2012, Bandung, September 2012

**D.2 Goals and Future Plans**

* To introduce IEEE among students with Annual Indonesia Student Congress and Indonesia Student Contest, and increase technical and educational activities for students.
* To introduce IEEE Indonesia Section to members and non members with Technical Activities and Conferences in Indonesia