

IEEE Communications Society  
ICC 2014 - Sydney, Australia  
Emerging Technologies Committee (ETC) Meeting  
Wednesday, June 11, 2014, 11:00-12:30am  
Minutes by: Zhisheng Niu & Sheng Zhou

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Zhisheng Niu called the meeting to order at 11:10am.  
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### **1. Introductions and Recognition (Zhisheng)**

- All attendees introduced themselves (*Appendix 1*)

Zhisheng Niu, Jeffrey Andrews, Kwang-Cheng Chen, Mark Karol, Sheng Zhou,  
Jinsong Wu, Shui Yu, Mary Ward-Callan, Kathy Grise, AnotnioIera, Luigi  
Atzori, Floriano De Rango, Gabriel Jakobson\*, Hussein Mouftah\*

\*: Dail in.

### **2. Approval of the Agenda (Zhisheng)**

- The following agenda was approved without modification.

11:00-11:10: Welcome and Self Introductions (Zhisheng)

11:10-11:25: Current Status and Action Plan in 2014 (Zhisheng)

11:25-11:35: IEEE ComMag issue in Oct. 2014

11:35-11:50: IEEE JSAC bonus issue in Dec. 2014

11:50-12:00: Sub-TC evaluation criteria

12:00-12:10: Ideas for New Subcommittees

12:10-12:20: Other possible new programs and/or showcases for ETC

12:20-12:30: Other discussion items

12:30: Adjourn

### **3. Current Status and Action Plan in 2014 (Zhisheng, *Appendix 2*)**

- 5 new members in 2014

- 13 sub-TCs and 23 TCs in 2014

- one subcommittee name change request (*done*)

- Action item 1: ComMag article in Oct. 2014 (*standing*)

- Action item 2: JSAC bonus issue on ETC, targeting Dec. 2014 (*standing*)

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### **4. IEEE ComMag Article (Zhisheng)**

- First article published on Dec. 2013 issue showcasing ETC and its 12 subcommittees;

- The goal of the article is to attract new members;

- A standing article to be published on Oct. 2014 issue and the years after (already agreed with EiC of ComMag);

- Proposed Content for Oct. 2014 issue

1) Showcase two new subcommittees which were missed in 2013

\* 5G Mobile Wireless Internet

\* Software Defined Networking & Network Function Virtualization

- 2) Summarize ETC activities over previous year (new initiatives, new subcommittees, etc)
- 3) Selected subcommittees highlight their major technical achievements
- 4) Action plans in 2015

Discussions:

- Jeffrey: It would be better to include directions on how people can get involved in ETC, e.g., the process to become a member of ETC or a sub-TC, to propose a new sub-TC, the way proposals of sub-TC and existing sub-TCs are reviewed, and etc.
- Jinsong: Can introduce some key topics or areas that include or relate to topics of sub-TCs.

### 5. JSAC bonus issue (Zhisheng)

- It should be a **bonus** JSAC special issue, **once** a year (not two), published **both** in print and electronically;
- **All-invited** papers with reviews, cutting-edge and/or interdisciplinary;
- Showcasing **4** subcommittees with **4** papers in each one;
- ETC is the editorial board for the journal with support from the subcommittees;
- The selected ETC subcommittee chairs invite **4-6 extended abstracts**, no more than 2 from officers to encourage member submissions;
- ETC informs authors of selected abstracts to prepare papers,
- Paper reviews (*initial review and revisions*) done by subcommittee and ETC
- Final acceptance by ETC
- Publication in **December** each year
- **A call for nominations inside the ETC has been released on May 15 and 3 sub-TCs have shown their interests**
  1. Internet of Things (IoT) (Latif or Antonio)
  2. Social Networks (KC Chen)
  3. Innovation and Standards in Communication and Information Technologies (ISICT) (Hasan SM)
  4. Green Communications and Computing (Jinsong Wu)
- **Suggested guest editorial team**
  1. Zhisheng Niu, Latif Ladid, KC Chen, Hasan SM, Jinsong Wu
- **Proposed deadlines** (*Targeted Publication Date: Dec. 2014*)
  1. Extended abstract submission: July 10
  2. Extended abstract acceptance: July. 30
  3. Full paper submission: Sep.10
  4. Final paper acceptance: Sep.30
  5. Camera-ready version: Oct.15

Discussions:

- Jeffrey: The submission schedule seems to be too tight. It may be better to put the publication date later, and get better preparations and thus high quality papers.
- Zhisheng: We are considering to have abstract submission in July. The authors will have more than 3 months to finish the paper before the camera ready deadline. The paper should review the related topic but also provide some in-depth technical contents.
- Jeffrey: Should be limited to 30 pages double space one column according to JSAC submission rules.
- Shui: Is the camera ready deadline firm by JSAC? (Zhisheng: Seems to be tight, but will check with JSAC editorial)

## 6. Sub-TC evaluation criteria (Zhisheng)

- Each subcommittee required to submit an annual report to the ETC for review
- Each subcommittee required to keep its website up to date, including officers/activities/meetings
- Subcommittees required to organize at least one meeting per year for all members
  - Ideally at an appropriate workshop or conference
  - Can be a virtual meeting or conference call
  - Attendees must be included in annual report
- Subcommittee reports and websites used to generate an annual evaluation by the ETC
  - Goal is to identify strengths and make recommendations
  - Each year ETC decides if subcommittee should continue, merge, disband, or be put on probation (*Note: not for subcommittees in 1<sup>st</sup> year*)
  - Criteria: visibility, participation, activities, technical area, future plan and potential impart.

## Discussion:

- Zhisheng:ETC needs to move faster; we cannot just sit there; We have to set up new process to move on new committees.
- Zhisheng: What's a typical lifecycle of an *emerging* area in our field: 3 years? 5 years?
- Jeffrey: We can have more flexibilities on the lifecycle of sub-TCs. For example, we can have more rigorous review every 3 to 5 years in addition to the annual review. Or we can make the period gets shorter as time goes by, for instance, the 5+3 mode.

## 7. Ideas for New Subcommittees (Zhisheng Niu)

- Micro-communications(*we are already looking at sensors. In the coming years we will see a trend towards zero consumption and that will require new approaches to communications*)

- Future network(*incorporate computation, storage, and big data into the network*)
- Data center networking or on-chip networking
- Wireless Network Convergence (*e.g., outdoor and indoor*)
- Biomedical Communications(*Brain-Machine Interface, In-Body Networks, compliments e-Health, ...*)

Discussions:

- Cathy: IEEE Future Direction Committee (FDC) has set 8 new initiatives including Cloud Computing, SDN, etc, which is strongly related to ETC in ComSoc;
- Shui: Big data is a hot issue, but few people are doing big data from the networking point of view. So I would like to propose a new emerging topic: *Networks for Big Data*;
- Cathy: Next week (Thursday, 19 June), there will be a big data workshop(BDA: Big Data Alliance) in IEEE, people from ETC may be interested to join;
- Kwang-Cheng: Social networking Sub-TC is considering a special issue on big data.

## **8. Other possible new programs and/or showcases for ETC**

- Awards? (*award for creating and/or promoting an emerging field?*)
- Distinguished lectures? (*to work closely with the DL Selection Committee*)
- Special panels or invited papers *at ComSoc workshops and conferences*
- Tutorial videos & Keynote talks? (*also posted on the websites of STCs*)
- Mailing list for STCs (*officers and anyone else who wants to join*)

Discussions:

- Cathy: We can utilize the IEEE websites, like [cloudcomputing.ieee.org](http://cloudcomputing.ieee.org), [sdn.ieee.org](http://sdn.ieee.org), and [iot.ieee.org](http://iot.ieee.org), which are related to those sub-TCs, and ETC members can contact me to promote ETC and related sub-TCs on these websites
- Jeffrey: In terms of the awards, we can consider to award the sub-TC of the year, people who contributed to ETC or sub-TCs remarkably, and etc.
- Antonio: How about planning some PhD summer schools with certain topics from sub-TCs, so that PhD students can benefit from the summer school to know more about ETC.
- Shui: As an alternative to summer school, which may require quite amount of work to organize the school, we may invite famous professors to make some video courses about the topics of sub-TCs, and put them online
- Zhisheng: We can also consider to invite IEEE Distinguish lecturers to deliver short courses related to topics of sub-TCs.
- Hussein: How about having some short tutorials from each sub-TC in ICC and Globecom? These can be in parallel with other tutorials, and be free to audience, so that no money is paid to the speaker.

- Jeffrey: It is hard to have a different type (like free) of tutorials, which may cause lots of amendments to the conference organization, and may be unfair to other tutorials. It is better to encourage the members of sub-TCs to deliver normal tutorials.
- Kwang-Cheng: We can also organize workshops targeting at some emerging topics, and we need to put some efforts on thinking about new workshop subjects.

## **9. Other discussion items (Zhisheng)**

No

## **10. Adjourn (Zhisheng)**

The meeting was closed by Zhisheng at 12:25am.

Appendix 1: Attendee List of ETC Meeting at ICC2014 Sydney.xlsx

Appendix 2: ETC\_Current Status and Action Items in 2014\_Zhisheng.pptx