ANNUAL REPORT TO MEMBERSHIP

TECHNICAL COMMITTEE ON Intelligent Informatics
REPORT SUBMITTED BY: Chengqi Zhang

KEY VOLUNTEERS (PLEASE LIST YOUR TC’S ExCom AND ANY OTHERS)

<table>
<thead>
<tr>
<th>Role</th>
<th>Name, Email</th>
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<tbody>
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2015 PROGRESS REPORT & PLANS

Please enlist your membership’s participation in your plans for the coming year by suggesting upcoming opportunities for Volunteer involvement.

**ACTIVITY AREA** | **2015 ACCOMPLISHMENTS** | **2016 PLANS**
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**Highlights:** Highlights of the past year, and special plans underway for the coming year. Indicate if you’d be interested in formally sharing your success stories with other TC Chairs at an upcoming CSTAC meeting.

2015 IEEE/WIC/ACM International Conference on Web Intelligence (WI 2015) and 2015 IEEE/WIC/ACM International Conference on Intelligent Agent Technology (IAT 2015) were held on December 6-9, 2015 in Singapore. Thanks to the excellent services of the organizing team and program committees led by two General Chairs: Ah-Hwee Tan and Yuefeng Li, and Program Chair, Ee-Peng Lim, respectively. All two conferences were a great success. This year’s joint conference had as usual attracted hundreds of attendees. The distinguished keynote talks were very well received, which were given by:

- Prof. Joseph Sifakis (Professor at EPFL, Switzerland and Director of CRI in Grenoble, France, 2007 Turing Award Winner)
- Prof. Francis Heylighen, Free University of Brussels, Belgium
- Prof. Steven Koonin, New York University, USA
- Prof. Gee-Wah Ng, DSO National Laboratories, Singapore
- Prof. Sarit Kraus, Bar-Ilan University, Israel
- Prof. Dominik Slezak, University of Warsaw, Poland

Other important feature of this year’s joint conference was its WI-IAT Conference Panel Session on: (1) Big Data in Global Brain and Social Networks, which stimulated a lot of interests and discussions on the future challenges and opportunities for the WI-IAT community. TCII also sponsored three best paper awards.

**WI 2015 Best Paper**  
Bilel Moulahi, University of Toulouse, France

**IAT 2015 Best Paper**  
Tim Baarslag, University of Southampton, United Kingdom

**IAT 2015 Best Student Paper**  
Serkan Ozdemir, University of Duisburg-Essen, Germany

**Opportunities for Volunteer Involvement:**

Volunteers (faculty and/or post-graduate students) are welcome to actively participate in and contribute to TCII’s task forces as well as its sponsored activities.
The other popular conference sponsored by TCII was ICDM 2015. It was held in Atlantic City, USA, on 14-17 November 2015. It received 807 submissions and attracted 667 participants. The keynote speakers include
- Robert F. Engle, New York University, USA (2003 Nobel Prize for Economics)
- Michael I. Jordan, University of California, Berkeley, NAS, NAE, AAAS
- Lada Adamic, Facebook, Inc.

It was very successful.

**Conferences:** Describe TC’s sponsorship, co-sponsorship, or co-operation of conferences. Include any planned launches or discontinuations. Did the TC actively participate on any program committees, technical committees, or steering committees of these conferences?

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<th>Jointly with Web Intelligence Consortium (WIC) and ACM, TCII sponsored and helped support the following conferences:</th>
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<td>1. 2015 IEEE/WIC/ACM International Conference on Web Intelligence (WI 2015);</td>
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<td>3. 2015 IEEE International Conference on Data Mining (ICDM 2015)</td>
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More information on the conferences can be found at:
- [http://wi-iat15.ntulily.org/index.html](http://wi-iat15.ntulily.org/index.html) and

TCII members were directly involved in the Organizing Committees, Program Committees, and Steering Committees of these conferences. In addition to the above, TCII also provided Technical Co-Sponsorship in supporting several other international conferences in Intelligent Informatics related areas, e.g.,
- 1. International Conference on Healthcare Informatics 2015 (ICHI 2015); |
- 2. European Intelligence and Security Informatics Conference (EISIC 2015). |

One of the major activities in 2016 would be, among others, to sponsor and organize IEEE/WIC/ACM International Conference on Web Intelligence (WI 2016) and 2016 International Conference on Brain Informatics & Health (BIH’16) on October 13-16, 2016 in Omaha, USA. [http://wibih.unomaha.edu/](http://wibih.unomaha.edu/)

TCII also sponsor ICDM 2016 which will be held in Barcelona from 12 to 15 December 2016. [http://icdm2016.eurecat.org/](http://icdm2016.eurecat.org/)

TCII will also sponsor IEEE Conference on Big Data at 25% in 2016.

**Opportunities for Volunteer Involvement:**

Volunteers (faculty and/or post-graduate students) are welcome to participate in the above-mentioned or other TCII-sponsored conferences, e.g., as conference supporters and/or contributors, e.g., as Program Committee members and/or reviewers.
### Communication:
**Describe your TC’s communications strategy (including frequency) with your membership (e.g., newsletters, listservs, blogs, Twitter, Facebook, letter from the Chair, Web portal, etc.) Include info on how to subscribe. Any updates or changes completed or planned for the coming year?**

*Please list your URL and the name & email of the Web master.*


The contributions of Managing Editor, William Cheung, and Editor-in-Chief, Vijay Raghavan, of the Bulletin, as well as the editorial/production team and the contributing authors, have been remarkable and greatly appreciated.

### Meetings:
**Any TC meetings held/planned? At what venue (at conferences, teleconferences, videoconferences?)?**

As usual, during the WI-IAT joint conference in Singapore, the Executive Committee of TCII held its annual working meeting, in which the past activities of TCII were briefly reported, and strategies and plans for future activities, e.g., conference sponsorship, were discussed and endorsed. The minutes of the meeting had been submitted to Computer Society.

The Executive Committee of TCII annual meeting will be scheduled between 13 to 16 October 2016 in WI-BIH’2016 in Omaha, USA. Any suggestions are welcome.

### Publications:
**Sponsored publications or hosted special issues of a Computer Society magazine? Plans for one?**


Any contributions are welcome.
**Standards Committee Activities:** Describe TC’s support of or participation in Standards-related activities.

TCII played a key role in identifying and promoting some of the novel WI technologies that are converging towards new forms of standards, e.g., Wisdom Web of Things (W2T); as a result, some of its members have recently produced an article entitled “WaaS – Wisdom as a Service,” in which the WaaS standard and service platform were outlined.

**Collaborative Efforts:** Collaboration with other TCs, IEEE, or other groups or committees?

TCII was in collaboration with a number of organizations, including IEEE Computational Intelligence Society (CIS) - Emergent Technologies Technical Committee (ETTC) by organizing and leading the Task Force on Brain Informatics (IEEE TFBI), as well as IEEE Systems, Man, and Cybernetics, ACM, and Web Intelligence Consortium (WIC). TCII with TCDE will co-sponsor IEEE Conference on Big Data in 2016.

**Opportunities for Volunteer Involvement:**

Any proposals are welcome.

**Awards and Recognition:** Describe your TC’s awards activities – given and planned.

TCII collaborated with Web Intelligence Consortium (WIC) in nominating and reviewing the candidates and the following awards in 2015:

- 2015 WIC Outstanding Research Contributions Award: **Joseph Sifakis**, EPFL, Switzerland
- 2015 WIC Outstanding Technology Contributions Award: **Francis Heylighen**, Free University of Brussels, Belgium
- 2015 WIC Outstanding Service Award: **Ah-Hwee Tan**, Nanyang Technological University, Singapore

which were presented at the WI-IAT 2015 conferences.

**Concerns:** Share your TC-related concerns with your members.

Reports will be posted on the TC’s Computer.org “Scope Page”.

**The awards will be continued in 2016.**