

IEEE Systems Council

Analytics and Risk Technical Committee Meeting

Inaugural Meeting – Thursday, August 7th, 9:40-10:40, Eastern

Dash Wu convened the meeting.

IEEE SC: Roger Oliva advised the whole meeting.

ARTC member attendee:

Peter Sarlin, Kefan Xie, Hing Kai Chan, James H. Lambert, Suhaiza Zailani, David Olson, Ming-Liang Qi (representing Hong Chi), Yingjie Yang, Dash Wu

Excuse: Ming Xie(travel), Delen Dursun(traveling internationally, little access to internet.), Jason Choi (time conflict), O'Neill Liam(on a NSF meeting), Ivliev Sergey(fly to Singapore), Alexandre Dolgui(travel); John R Birge

Incoming: Ying Li, Yacov Haimes (tentatively agreed)

Today's Meeting focuses on discussions of five items that were sent to members by email on August 03, 2014. Five items are from an initial working file by David Olson and Dash Wu.

1) Description of ARTC: **Analytics and Risk** will enable the growth and understanding of best practices. There are many perspectives that we will consider here **to include modeling and applications**. Risk analytics in business intelligence represents data-oriented techniques to supplement business systems for better risk-based decision making. Risk performance analysis in manufacturing intelligence uses advanced data analytics, modeling and simulation to produce a fundamental transformation to new product-based economics through internet-based service enterprises and demand-driven supply chains. Risk evaluation plays key roles in emerging areas such as biomanufacturing, nanotechnology, and energy. We see a dramatic increase in the use of predictive analytics in these and many other areas. This technical committee will bring together scientists and engineers who have different backgrounds and disciplines, and provide a set of opportunities to discuss these open issues.

- be inclusive
- highlighted revision based on email discussion
- Interdisciplinary field;
- two rules: 1) in line with IEEE SC goal and mission 2) ARTC perspective based on expertise that ARTC has to take leadership.

2) Goals in 3 years we establish the communication channels (mailing list, homepage, facebook group, etc.) and organize a series of scientific events such as summer schools, workshops/conferences, and special issues. During the first 3 years, we will form a community and set the framework for systematic investigations of this interdisciplinary field.

- communication channels – being refined.
- IEEE simple page built and disseminated.

- Linked in group replacing facebook group.
- mailing list built and to be expanded.
- First special issue CFP from IEEE SC disseminated.

3) Task Forces: Engineering risk, Behavior risk, Data mining, Business and finance risk, Healthcare,

- **Proposed Working Groups** – “Behavior risk, Data mining” dropped.
- highly relevant come up with a good way to set up the task forces/ **Working Groups**.
- Good task forces might only work out given that we have the right people to lead them. active members may first work on task forces based upon the research interests in order to set up task forces for which we have the correct people, and later add task forces based upon new members in ARTC.
- New members to be recruited.
- **Some interesting groups:** Engineering risk and Enterprise risk (might be divided into "Business and management" and “Financial risk”)

E-Newsletter?

- Very important
- Maybe imbedded in SC or other society Newsletter at the beginning.

4) Confirmation from the board members: All board members have agreed to contribute to this ARTC.

- All agree

5) support from IEEE, funding ? Regular meeting ? Next meeting topics ?

- Roger: IEEE SC/seed funding possible.
- Events were expected to pay for themselves
- Members will send possible comments to Dash
- Next meeting will be scheduled based on further communications by emails, but preferably to follow existing meeting frequency.

Further discussion/ideas by email 'til Aug 13, 2014:

Panel discussion/seminars in society conferences (possible IEEM panel)

Online webinar series (one speaker secured, another one likely)

Dash Wu

Dash.wu@gmail.com