

IEEE PES INTELLIGENT SYSTEMS SUBCOMMITTEE MEETING

Minutes - Draft

IEEE-PES GM Pittsburgh
Monday, July 21, 2008: 4 PM-6 PM, CC Room 334

Chair: Dagmar Niebur, Drexel University
Vice-chair: Stephen McArthur, University of Strathclyde
Technical Secretary: Ganesh Kumar Venayagamoorthy, Missouri Univ. of Science and Technology

The meeting started at 4.15 pm.

The chair welcomed everyone to the IS subcommittee meeting and asked the attendants to introduce themselves.

An attendance list was taken with attendants providing their names and contact email information.

1. Approval of minutes of IS subcommittee meeting at IEEE PES GM 2007

The minutes were approved unanimously.

2. Announcements

The chair announced the 5 panels sponsored by ISC at the GM 2008 meeting (see appendix).

3. Working Groups and Task Force Activities

3.1 Working Group on Multi-Agent Systems

Chair – Steve McArthur

29 people in attendance at the WG meeting held at the GM08. It was reported that the Multi-Agent Systems Working Group had been awarded the “IEEE PES Technical Committee Working Group Recognition Award” for its activities.

The WG has published a two-part Technical White Paper in the IEEE Transactions on Power Systems (Nov. 2007 issues).

Two task forces are created in the WG – 1. Task Force on Agent Research and Applications in Power Engineering activities chaired by Ferdi Ponci, USC (ponci@engr.sc.edu) and 2. Task Force on Agent Ontologies for Power Engineering.

The WG proposes two panel sessions for the 2009 IEEE PES General Meeting: 1. Emerging Applications for Smart Grids (we will attempt to have this included as part of a supersession) and 2. Intelligent Control of Marine Electrical Systems (in consultation with the Marine Systems Coordinating Committee, through Dave Cartes).

At the IEEE PES GM09, WG proposes a 2-hour working group meeting. This is to allow up to one hour for administration and planning of activities. The second hour is to devote to discussions of the technology, standards, etc.

3.2 Working Group on Intelligent Data Mining and Analysis

Chair –Germano Lambert-Torres

Eleven people attended the GM08 WG meeting.

The WG will host a panel on “New Technologies in Data Mining Power Systems” at the PSCE09 in Seattle and a panel on “New Applications of Intelligent Data Mining Power Systems: at the GM09 in Calgary.

The WG plans to have a transaction paper written by the end of this year based on its activities. The WG is planning on organizing a tutorial for GM 2010/2011 and currently working on a proposal with several chapters for this purpose.

3.3 Working Group on Intelligent Control Systems

Chair – Ganesh Kumar Venayagamoorthy

The WG had 29 people in attendance at the GM08 meeting. The WG organized a panel on the applications of intelligent techniques for distribution system control at GM08.

A call for book chapters for edited on the topic of the GM08 panel is out and abstracts are to be received by Oct. 1, 2008.

The two edited books focused on Electric Power Generation and Electric Power Transmission are in progress and publication is planned for 2009.

A panel is planned for GM09 on the Practices of Intelligent Control to be co-chaired by David Cartes and Siddharth Suryanarayan.

The WG proposes to organize a number of tutorials in 2010 and 2011 based on its edited books.

Mike Basler agreed to serve as a liaison between the WG on ICS and the excitation committee.

3.4 Task Force on Intelligent Fault Management

Chairs– Mo-Yuen Chow and Mladen Kezunovic

Twelve people attended the GM08 TF meeting.

The TF met and discussed the importance of coming with a format for reporting faults.

The action item of the i-FM task force for GM09: Host a panel session on “Requirements for automated fault reporting” and a plan a paper to clarify the meaning of intelligent fault management.

3.5 Task Force on Modern Heuristic Optimization

Chair – Kwang Lee

Ten people attended the GM08 TF meeting. The TF is hosting a panel on “Application of Heuristic Methods to Power System Optimization under Uncertainties”. The objective of this panel is to identify optimization areas and new approaches taking into account uncertainties.

The TF is also preparing a contributed paper (with no names) to be published in one of the PES publications as an outcome of its activities.

4. Other Technical Activities

The Chair congratulated the WGs and TFs for their excellent contributions to the General Meeting Conferences in terms of panel sessions and panel papers. Since conference rooms will most likely be more limited in future meetings, she suggested that the IS subcommittee with its WGs and TFs should consider to shift focus and be more active

- Aligning activities with the super sessions that now provide the themes of the conferences and meetings.
- Publishing the state of the art papers as done by the WG on Multi-agent Systems

- Organize tutorial activities initiated by the WGs and/or TFs.
- Publishing a book on the state of the art as proposed by the WG in Intelligent Control Systems
- Participating in standards activities as needed on the WG and TF level.

5. Panels

The chair requested that all panels be coordinated with super-sessions and the proposed panel by ABB – “Enabling Technologies to Smart Grids”. Panels should also be considered for the IEEE PES PSCE Conference which will take place in Seattle, WA, March 15-19, 2009.

6. Tutorials

No tutorials planned by the committee for GM 2009. Tutorials need a lead time of about 2 years. The ICS working group is planning a tutorial or two for 2010/2011.

7. Upcoming Conferences for 2009 were announced

- ISAP 2009 – visit website for details. The chair reported on ISAP 2007 – about 200 attendees. 400 papers were submitted and 140 were accepted.
- GM 2009 will take place in Calgary, Canada July 26-30, 2009.

8. ISC Website

Dr. Zita Vale has offered to update the ISC website and all information from the respective ISC officers for website can be forwarded to her at zitavale@sapo.pt. Members should forward information to be posted on the website to ISC officers.

9. Other Business

Chair transition: Dagmar Niebur will step down as the ISSC chair January 2009. Incoming chair is the current vice-chair Stephen McArthur, incoming vice-chair is the current secretary Ganesh Kumar Venayagamoorthy. The incoming secretary position is open. The ISSC members are invited to send nominations for this position to the incoming chair and vicechair.

10. Next Meeting

The next subcommittee meeting will at the PES GM 2009 in Calgary, July 27, 2009.

The meeting was adjourned at 5.35 pm.

Respectfully submitted,

Ganesh Kumar Venayagamoorthy

November 22, 2008

Appendix

IS Activities at GM 2008 Pittsburgh

Panel Sessions

Tuesday, July 22, 2008 09:00 -12:00, Multi-Agent Systems WG, CC Room 315

Agent-Based Test Beds for Restructured Electricity Markets

Tuesday, July 22, 2008 09:00-12:00, Intelligent Fault Management TF, CC Room 317

Fault Analysis and Fault Management using Intelligent System Solutions

Tuesday, July 22, 2008 14:00-17:00, Multi-Agent Systems WG, CC Room 315

Building the Smart Grid with Collaborative Agents

Wednesday, July 23, 2008 09:00-12:00, Intelligent Data Mining and Analysis WG, CC Room 315

New Trends of Intelligent Data Mining

Wednesday, July 23, 2008 14:00-17:00, Intelligent Control Systems WG, CC Room 315

Intelligent Techniques for Power System Distribution Control