

IEEE PES INTELLIGENT SYSTEMS SUBCOMMITTEE MEETING

Minutes

IEEE-PES GM Minneapolis

Monday, July 26th, 2010: 4PM-5PM, MCC Room 211CD

Chair: Stephen McArthur, University of Strathclyde

Vice-chair: Ganesh Kumar Venayagamoorthy, Missouri University of Science and Technology

Technical Secretary: Alexandre P. Alves da Silva, Federal University of Rio de Janeiro

Meeting started at 4:00 PM.

The Chair welcomed everyone to the IS subcommittee meeting and passed around an attendance list. Twenty one people signed (several others attended and many had apologies due to scheduling conflicts) and introduced themselves.

1. Approval of the minutes of IS subcommittee meeting at IEEE PES GM 2009.
The minutes were approved unanimously.

2. Announcements
Chair, Vice-chair and Technical Secretary will rotate at IEEE PES GM2011.
The IS subcommittee Chair invited applications for Technical Secretary.
The Chair noticed that the Task Force on Modern Heuristic Optimization was missing in the Agenda. Report of its activities was included as item 3.5.
The Chair emphasized that the number of IS subcommittee proposals for panels and technical sessions had been limited to three. Kevin Tomsovic, Chair of PSACE committee, confirmed the information.
The IEEE Symposium on Computational Intelligence Applications in Smart Grids, April 2011, in Paris, was advertised.

3. Working Groups and Task Force Activities
 - 3.1 Working Group on Multi-Agent Systems – Chair: Stephen McArthur, University of Strathclyde
The WG meeting was attended by 29 people. New website was created and launched, offering resources and advice on constructing multi-agent systems.
Two new task forces were proposed:
 - TF on “Agent-Based Modeling of Smart Grid Market Operations”, Co-chairs Ivana Kockar, University of Strathclyde, and Leigh Tesfatsion, Iowa State University; and

- TF on “Multi-Agent Systems Design and Tools”, Chair: Dave Cartes, Florida State University, with a focus on creating test cases for agents, supported by Alex Flueck, Illinois Institute of Technology.

A panel session on “Agent-Based Modeling of Smart Grid Market Operations” was proposed, to be co-chaired by Ivana Kockar and Leigh Tesfatsion. It was announced that Dave Cartes will become Chair of the WG at the 2011 GM in Detroit.

3.2 Working Group on Intelligent Data Mining and Analysis – Chair: Zita A. Vale, Polytechnic Institute of Porto

The WG meeting was attended by 11 people. The WG is working on a Transactions paper and a book on Data Mining Applications, with 2011 as target for a draft. A reference list has been published on the IS subcommittee’s website.

A panel session on “Data Mining for Smart Grid Applications” was proposed, to be chaired by Zita A. Vale.

3.3 Working Group on Intelligent Control Systems – Chair: Ganesh Kumar Venayagamoorthy, Missouri University of Science and Technology

The WG meeting was attended by 20 people. Three task forces have been active for two years: Intelligent Control for Wind Plants, Intelligent Control for Microgrids, and Intelligent Control for Smart Grids.

The WG proposed two tutorials:

- “Evolutionary and Swarm Techniques for Power Systems”, suggested for the 2011 GM;
- “Intelligent Control of Wind Plants”, with the 2012 GM as target.

Books edited by the WG is in progress.

3.4 Task Force on Intelligent Fault Management – Co-Chairs: Mo-Yuen Chow, North Carolina State University and Mladen Kezunovic, Texas A&M University

The TF meeting was attended by 3 people. The Co-chair Mo-Yuen Chow believes it has completed a 3 year life-cycle and will not continue. Future status of the TF to be confirmed.

3.5 Task Force on Modern Heuristic Optimization – Co-Chairs: Kwang Y. Lee, Baylor University, and István Erlich, University of Duisburg-Essen

The TF meeting was attended by 12 people. The TF is planning to complete a two-part paper for submission to the Transactions by the end of 2010. A panel session on “Application of Heuristic Methods to Power System Optimization under Uncertainties” was proposed for the 2011 GM.

4. Other Technical Activities

The IS subcommittee Chair invited the WGs and TFs Chairs to contact Zita Vale, manager of the IS subcommittee website, in order to include more information regarding past, current and future technical activities.

5. Linking IS Subcommittee activities to application areas and industrial interests
Kevin Tomsovic suggested that the IS subcommittee should be represented in the Smart Grid Committee.
6. Panels and Paper sessions for GM2011 and T&D 2011
General guidelines for panels, paper sessions and tutorials for the 2011 GM and T&D were discussed. The Chair agreed to put forward three solid panel sessions.
7. Tutorials
The tutorial proposed by the WG on Intelligent Control Systems for GM 2011/GM12 will be pursued.
8. Other Business
The 2011 IFAC World Congress in Milano was advertised. The ISAP Board Meeting was set for the next day at 5:30 PM.
9. Next Meeting
The formal subcommittee meeting will be at the IEEE PES GM 2011 in Detroit.

The meeting was adjourned at 5:00 PM.

Respectfully submitted,

Alexandre P. Alves da Silva