

IEEE PES INTELLIGENT SYSTEMS SUBCOMMITTEE MEETING

Minutes

IEEE PES GM San Diego

Date and Time: Monday, July 23, 2012, 15:00 – 17:00

Venue: Marriott – Ford AB, San Diego, USA

Chair: Ganesh Kumar Venayagamoorthy, Clemson University

Vice-Chair: Alexandre P. Alves da Silva, GE Global Research

Technical Secretary: Zita Vale, Polytechnic of Porto

The meeting started at 3:00 PM.

The Chair welcomed everyone to the Intelligent Systems (IS) subcommittee meeting and passed around an attendance list which has been signed by thirty two people attending the meeting.

1. Approval of the minutes of the IS subcommittee meeting at IEEE PES GM 2011 in Detroit.
The minutes were approved unanimously.
2. Announcements
Ganesh Kumar Venayagamoorthy is stepping out of the ISS chair functions. Alexandre P. Alves da Silva will become the ISS chair and Zita Vale the ISS vice-chair. A call to fulfill the technical secretary vacancy has been announced. The Chair announced the list of panels supported by the IS subcommittee to take place during the 2012 IEEE PES GM (in the Appendix).
3. Working Group (WG) and Task Force (TF) Activities
 - 3.1 Working Group on Multi-Agent Systems – Chair: Dave Cartes, Florida State University
The TF on “Agent-Based Modeling”, co-chaired by Ivana Kockar, University of Strathclyde, and Leigh Tesfatsion, Iowa State University, is operating.
The WG is planning to attract industry practitioners in multi-agent systems as most of the WG members are academic. As a first step, the WG is proposing a panel on “Multi-Agent Systems Test Beds and Applications” for IEEE PES GM 2013. This will be industry focused, looking at cases, taxonomies and ontologies that support knowledge representation and coordination of intelligent devices and systems.
 - 3.2 Working Group on Intelligent Control Systems – Chair: Ganesh Kumar Venayagamoorthy, Clemson University
A panel on “Intelligent OPF in Uncertain and Variable Environment” has been proposed for IEEE PES GM 2013. Gabriela Hug (Carnegie Mellon) and Ganesh Kumar Venayagamoorthy will be in charge of the organization. A tutorial on “Computational Intelligence for Smart Grids” has been submitted for the same event.
 - 3.3 Working Group on Intelligent Data Mining and Analysis – Chair: Zita Vale, Polytechnic of Porto
The working group proposed to organize a panel session on “Data Mining for Operational and Economics Decisions” for IEEE PES GM 2013.
 - 3.4 Task Force on Modern Heuristic Optimization – Co-Chairs: Kwang Lee, Baylor University, and Istvan Erlich, University of Duisburg-Essen
The TF on Modern Heuristic Optimization will evolve to a WG, effective in IEEE PES GM 2013. The TF is pursuing the preparation of a white paper. The TF is proposing a panel session on “Modern Heuristic Optimization for Real Time Applications” for IEEE PES GM 2013. A tutorial on “Modern Heuristic Application Techniques” is also being proposed for IEEE PES GM 2013.

3.5 Review of Working Group and Task Force activities, including new Task Force activities. All WGs and TFs are maintaining good activity. A new TF has been created with the mission to look at the scope of the ISS, application areas and industry involvement. This TF will have one year duration and will report the results of its work during IEEE PES GM 2013. A new TF on the topics of situational awareness and disturbance analysis is envisioned. Ganesh Kumar Venayagamoorthy and Mladen Kezunovic (Texas A&M) are in charge of discussing its scope and the procedure for putting it together and will report in IEEE PES GM 2013.

4. Other Technical activities

The subcommittee website should be updated. The Chair will send updated material to the Technical Secretary in order to pursue this job. All WG and TF chairs are also invited to send updated information to be published to zav@isep.ipp.pt.

5. Linking IS Subcommittee activities to application areas and industrial interests

The subcommittee should work to attract industry people to the subcommittee.

6. Panels and Paper sessions for IEEE PES GM 2013 and other meetings

For the IEEE PES GM 2013, the subcommittee will propose 5 panels: one for each WG, one for the TF on Modern Heuristic Optimization, and one for the IS subcommittee, co-sponsored by the Computer Analytical Methods SC, on "Big Data in the Electric Power Industry". Other panel sessions may be prepared for other meetings, namely for ISGT Latin-America 2013, on "Intelligent data mining applications in smart grids", for IEEE PES T&D 2014, on "Smart condition monitoring and SCADA mining for smart grids", and for IEEE PES GM 2014, on "Data mining for power market regulatory issues".

7. Tutorials

The subcommittee will propose a tutorial on "Computational Intelligence for Smart Grids", prepared by the WG on "Intelligent Control Systems", and another on "Modern Heuristic Application Techniques", organized by the Modern Heuristic Optimization TF.

8. Other Business

Germano Lambert Torres (ISAP Board) informed that the next venue for the ISAP Conference 2013 would be decided as soon as possible.

9. Next meeting

The next IS subcommittee meeting will take place in Vancouver, in the scope of the IEEE PES GM 2013.

The meeting was adjourned at 4:15 PM.

Respectfully submitted,

Zita Vale

Appendix: Panel Sessions and Paper Forums related to the IS Subcommittee

Session Type	Session Title	Time & Venue
Panel	Modern Heuristic Optimization Methods Applied to New Power and Energy Systems	July 24, 2012 – 1.00 pm to 5.00 pm – Edward A
Panel	Intelligent Control of Grid-Connected Energy Systems	July 25, 2012 – 8.00 am to 12.00 pm – Manchester C
Panel	Intelligent Data Mining and Analysis for Smart Grids	July 25, 2012 – 1.00 pm to 5.00 pm – Manchester I
Panel	Agent-Based Modeling of Smart-Grid Market Operations	July 26, 2012 – 8.00 am – 12.00 pm – Annie B
Paper Forum	Intelligent System Applications	July 26, 2012 – 1.00 pm to 5.00 pm