

**Minutes of Intelligent Systems Subcommittee Meeting**  
**Monday, June 13, 2005, 12 pm to 2 pm**

Meeting started at 12.02 pm.

An attendance list was taken with people writing their names and contact information.

The meeting started with everyone in the room introducing themselves.

1. Approval of minutes of IEEE PES GM 2004

The minutes of IEEE PES GM of Denver, June 7, 2004, 12 pm to 1 pm was reviewed for corrections:

Minutes were approved unanimously.

2. Announcements

All the task forces of the IS subcommittee met this morning between 11.00 am and 12.00 pm.

There are four panel sessions in this meeting namely –

- (i) Panel on Symbolic Computation for Power Systems – Chair: D Niebur
- (ii) Panel on Intelligent System Applications for Power Quality Data Analysis - Chair: S Santoso
- (iii) Panel on Multi-Agent Systems (MAS) in Power Engineering – Chair: S McArthur
- (iv) Panel on Artificial Intelligence Techniques for Dynamic Security Assessment – Chair: N. Hatziargyriou.

No single paper session at this meeting.

The next GM meeting will be in Montreal, June 18 – 22, 2005.

3. Task Force Activities

*3.1 Task force on Multi-Agent Systems: Steve McArthur*

The MAS TF is working on coming up with definitions for multi-agent technology, and, developing toolkits and standards. The applications of this technology are an emphasis of the TF. The TF is working on producing a technical document within the next 9 months. 20 to 25 members have expressed interest in contributing to this document. The panel sessions organized by the TF have papers to go along. These papers will be turned into formal publications. There is a plan to hold a tutorial on

“Multi-agent systems and application to Power systems” after two to three years of the TF activities.

### *3.2 Task force on Intelligent Data Mining and Analysis: Surya Santoso*

The task force has 5 members with a long range plan. The TF is focusing currently on the Data Mining and analysis approach for forecasting. The panel sessions of the TF has two types of papers – tutorial papers and application papers. A panel session on Intelligent Data Mining & Applications for Power System Forecasting is planned for GM 06 with four papers – (i) Data Mining, Applications for PS forecasting, (ii) Application – load forecasting, (iii) Price forecasting and (iv) Wind power forecasting.

A formal tutorial paper for transaction publication will be prepared and members are invited to contribute.

### *3.3 Task force on Intelligent Control Systems (ICS): Ganesh Kumar Venayagamoorthy*

The TF on ICS had 14 people at its first meeting. There several other people that have expressed in the activities of the TF that could not be present in San Francisco. The TF will be organizing at least three panel sessions over the next 3 years on applications of intelligent techniques to power system generation, transmission and distribution control. The panel session papers will eventually be published as transactions papers and standards. Tutorials are planned for 2008 and 2009 GMs. The GM 2006 will have the first panel session on Intelligent Techniques for Power System Generation Control.

The TFs are encouraged to send findings and relevant materials for publication in the power & energy magazine publication, post on the PSACE webpage. The scopes of the TFs are already posted on the web.

It was strongly suggested that the TFs have different meeting times for next the GM in Montreal, allowing the IS subcommittee members to be able to attend at least two meetings. TFs can meet between 11 am – 12 pm and 12 -1 pm and the IS subcommittee can meet 1 pm to 3 pm.

New task forces – an interest was expressed to create a task force on Symbolic Computation. Suggested chair is Edoe Mensah.

4. Other Technical Activities: None

5. Four Panels sessions for GM 2006

Artificial Intelligence Techniques for Dynamic Security Assessment - Chair: Nikos Hatziargyriou

Intelligent Data Mining and Analysis Applications to Solving Power System - Chair: Surya Santoso

Intelligent Techniques for Power System Generation Control - Chair: Ganesh Kumar Venayagamoorthy

Concepts and Approaches in Multi-Agent Systems for Power Engineering Applications - Chair: Steve McArthur

## 6. Tutorials

The Multi-Agent task force chair expressed the intention to hold a tutorial at 2007 GM. This is dependent on a document to be released by the task force in about 6 months.

## 7. Upcoming Conferences

7.1 IEEE PES PSCE, 29 Oct. – 01 Nov. 2006, Atlanta Marriot Marquis, Atlanta, GA, USA.

7.2. IEEE PES General Meeting 2006, 18 – 21 June, Montreal, Canada.

7.3 AIESP, Feb. 2006 – The multi-agents task force will be holding a panel session and asked for suggestions for panelists to be sent Steve McArthur.

7.4 ISAP 2005, Washington DC, registration fee - \$ 395, Kwang Lee and Dagmar Niebur are technical program chair and vice-chair respectively. To be held November 6 – 9, 2005.

7.5 NAPS 2005, October 25 – 26, 2005, Iowa State University, Ames Iowa, chair – V. Ajjarapu.

7.6 IEEE SA-PES Meeting, Durban, South Africa, to be held July 11 – 15, 2005. The submissions are closed. Ron Harley is the Technical Program Chair.

## 8. Other Business

Kevin Tomsovic – NSF representative reported that the NSF funding rates are getting lower. The funding is determined by the amount of the proposals received by his program. There is a lot emphasis on crosscutting proposals especially in the Engineering and CISE divisions of NSF.

## 9. Next Meeting

The next subcommittee meeting will be at the PES GM 2006 in Montreal.

The meeting was adjourned at 1.15 pm.

Respectfully submitted,

Ganesh Kumar Venayagamoorthy