IEEE PES Multi-Agent Systems (MAS) Task Force

Minutes of Meeting

Date: Monday 19th June, 2006
Venue: IEEE PES General Meeting in Montreal

Chair: Dr Stephen McArthur, University of Strathclyde, UK (s.mcarthur@eee.strath.ac.uk)

Attending:
Euan Davidson, University of Strathclyde
Miguel Ortega-Vazques, University of Manchester
Paul Hines, Carnegie Mellon University
Dagmar Niebur, Drexel University
Nikos Hatziargyriou, NTUA, Athens
Takeshi Nagata, HIT, Japan
Chul-Hwan Kim, SKKU
Ferdinanda Ponci, University of South Carolina
David Cartes, Florida State University
Sanjeev Srivastava, Florida State University
Germano Lambert-Torres, Federal Univesity of Itajuba
G.Kumar Venayagamoorthy, University of Missouri, Rolla
Koichi Nara, Ibaraki University
Vamsi Pousetty, University of Missouri, Rolla
Tridib Das, University of Missouri, Rolla
Mani Hunsan, University of Missouri, Rolla
Toshi Funabashi, Meidensha Corp.
Swakshar Ray, University of Missouri, Rolla
Thierry Van Cutsem, University of Liege
S.N. Singh, IIT, India
Anurag K Srivastava, Mississippi State Univ
Sandhya R Jetti, University of Missouri, Rolla
Douglas M Staszesky, S&C Electric Co.
Kwang Y Lee, Penn State University
Alex Flueck, Illinois Institute of Technology
Ali Feliachi, West Virginia University
Thilo Krause, ETH Zurich
Noel Schulz, Mississippi State University
Karen Miu, Drexel University

Minutes/Actions:

1. The Task Force has been working on a Technical White Paper entitled "Multi-Agent Systems for Power Engineering Applications: Concepts, Approaches and Technical Challenges". Paper copies were circulated, and an electronic copy will be circulated with these minutes.

2. It was **agreed** that the Task Force would attempt to publish a 2-part Transactions paper based on the technical white paper. Part 1 will cover the definitions, technical challenges, reasons for using agents, literature survey, etc. Part 2 will be practical advice and experience of building multi-agent systems for power engineering applications.

3. It was **agreed** that the Technical White Paper would form the basis of a proposed tutorial on "Implementing multi-agent systems for power engineering applications". This may first be run at ISAP 2007, and then at the PES General Meetings in 2008 & 2009.

4. It was **agreed** that the Task Force would propose another panel session for the 2007 IEEE PES General Meeting. This will focus on practical experience of implementing multi-agent systems for power engineering applications. The papers will describe the real-world complexities and issues associated with building applications which are currently in use. Stephen McArthur will chair the panel session and invite relevant participants.

5. It was **agreed** that the Task Force would have web pages which offer advice to those working in the field. As the Technical White Paper is updated, it will appear on the web pages. Stephen McArthur and Paul Hines undertook to create the initial web pages

6. It was **agreed** that the next technical activities of the Task Force would be:

   - Working together to create a power system ontology for people to use when building their multi-agent systems. This will ultimately be available to download from the Task Force web pages.
   - Working together to provide template agent software for researchers starting to apply MAS in the area of power engineering. This will ultimately be available to download from the Task Force web pages.