

**Working Group on Multi Agent Systems (MAS)
Intelligent Systems Subcommittee**

2016 IEEE PES General Meeting
Monday, July 18, 2016, 11:00 AM - 12:00 PM
Sheraton Boston Hotel
Room: SB - Beacon A
Chair: Koen Kok

Attendance: 28 WG members

Minutes:

1. Welcome and Introduction of attendees

- a. The chair introduces himself. As Koen became the WG chair shortly after last year's WG meeting, he asks if there are any objections within the WG against his chairpersonship. There are none, so, from now on Koen works with a mandate from the WG.
- b. Koen thanks both Nikos & Zita for their ad-hoc chairing at the last two meetings.
- c. There are 28 WG members present. Most members are affiliated with an academic institution or a laboratory. Five members are (also) working for an industrial organization.

2. Approval of the minutes of the 2015 MAS Working Group meeting in Denver

There are no comments to the minutes. The minutes are approved.

3. High and Low Lights of the past year

- a. **MAS Panel Session:** Unfortunately, there is no panel session on Multi-agent Systems at the current PES General Meeting. The number of panel sessions organized by the Intelligent Systems Subcommittee and its working groups is much lower than in previous years and the MAS panel is one of the panels that have not been accepted. The reasoning behind it is unclear. Thanks, nonetheless, to the WG members Ryan May, Steven McArthur and Nikos Hatziargyriou who made the proposal.
- b. **Feedback on the Tutorial at PES GM 2015:** The tutorial three WG members delivered on "*Intelligent Systems Support for Transactive Energy Systems*" at the 2015 GM in Denver received very positive feedback from the participants through the anonymous feedback forms filled in after the event. The average score was 4.5 out of 5. The biggest critique was that the half-day tutorial should have been longer. Some remarks: "Very good tutorial", "The course is very helpful for understanding relative concepts about transactive energy. I appreciated the insight provided by the presenters", and "Excellent course. More time would have been helpful."
- c. **New Tutorial proposal:** In spite of the favorable feedback received on the 2015 tutorial, the proposal for a one-day tutorial (longer by popular demand) at the 2016 PES GM wasn't accepted into the program.
- d. **IEEE Smart Grid Webinar:** Leigh Tesfatsion, Steve Widergren and the undersigned presented an IEEE Smart Grid Webinar on Transactive Energy Systems last March. You

can access the recording of the webinar at:

<http://smartgrid.ieee.org/resources/webinars/past-webinars?eid=66&m=d7ad069d3940ebcaaf9ce65812521293>.

- e. **IEEE Power and Energy Magazine Article:** Steve Widergren and the undersigned wrote an article on intelligent systems support for transactive energy systems. The article appeared in the current version of the IEEE Power and Energy Magazine, which is a special issue on transactive energy. Link to the article: <http://ieeexplore.ieee.org/xpl/articleDetails.jsp?arnumber=7452756>. Link to the special issue: <http://ieeexplore.ieee.org/xpl/tocresult.jsp?isnumber=7452712>.

4. MAS WG Co-chair(s) vacancy

Koen indicates he would like to have a vice-chair assisting him and to have a replacement option if necessary. Amin Kargarian of Louisiana State University volunteers for the position.

5. WG Activities

- a. **Special Issue/Section proposal to Trans. on Power Systems:** A proposal for a special issue is under consideration by the editorial board of the journal. Topic: “*Transactive Approaches to Integration of Flexible Demand and Distributed Generation*”.
- b. **Panel session organization (PES GM 2017 & other conferences)**
 - i. **PES GM 2017:** There are two proposals for a panel. Koen proposes to organize a panel covering a broad spectrum of topics covered by the members of the WG, in order to reinforce the communication within the working group. Provisional title: “*Distributed Intelligence for Power Systems - State of the Art and Beyond*”. A number of members indicate to be able to contribute to this panel (Ivana Kockar, Nikos Hatziargyriou, Jim Price, Sanjeev Srivastava). Koen creates a draft description and mails this to Zita before the PSACE meeting on Wednesday.
Steve Widergren proposes to have a panel on software platforms for MAS in Power Systems. This panel could include platforms for transactive energy applications (e.g. Voltron and EF-Pi) and platforms for other MAS applications. This could also be a potential tutorial topic for the future. Steve creates a draft description and mails this to Zita before the PSACE meeting on Wednesday.
 - ii. **Other conferences:** The chair encourages all WG members to take the initiative to organize a panel at a relevant conference under the umbrella of the WG. In the past this has been done at the IEEE ISGT Europe conference, for instance. The WG could serve as a source for speakers and its website as a channel advertising the panel.
- c. **Tutorial organization:** Steve Widergren and Koen Kok need to discuss with Leigh Tesfatsion whether they want to propose their tutorial as given at the 2015 GM for the GM of 2017. The proposal deadline is normally early in August according to Zita Vale.
- d. **Working Group Website:** The site has been updated with the latest WG activities. The updates are mainly news items. The MAS content on the site is based on WG publications from a few years ago, and this needs to be expanded with more recent materials as well. Koen requests the WG members to provide content based on existing publications. The form is preferably an extended abstract of a relevant publication that

can be published as a web page with a reference to the original publication.

6. AOB

Steve Widergren: There is a new PES Technical Committee on Smart Buildings, Loads and Customer Systems. This TC has an overlapping scope with our WG, at least where transactive energy systems are concerned. Coordination is needed. The chair takes note of this.

7. Adjournment

The meeting was adjourned at 12:00 PM.

Minutes written by Koen Kok