

IEEE PES Intelligent Control Systems Task Force (ICSTF)
Intelligent Systems Subcommittee, Power System Analysis, Computing and
Economics Committee
Minutes of the Meeting of June 19, 2006, 1.00 PM to 2.00 PM
Room 519a, Palais des Congress de Montreal, Montreal, Canada at 2006 PES GM

1. WELCOME and INTRODUCTION OF ATTENDEES

The meeting was called to order at 1.05 pm by the Chair, Dr. Ganesh Kumar Venayagamoorthy. The chair welcomed everyone in attendance to the second formal meeting of the task force. An attendance sheet was passed around the table.

In Attendance:

1	G. K. Venayagamoorthy	Univ. of Missouri-Rolla, USA – Chair <i>gkumar@ieee.org</i>
2	Ron Harley	Georgia Tech , USA – Vice Chair <i>ron.harley@ece.gatech.edu</i>
3	Swakshar Ray	Univ. of Missouri-Rolla , USA
4	Djalma Falcao	Fed. Univ. of Rio DeJaneiro, Brazil
5	Alexandree P. Alves Da Silva	Fed. Univ. of Rio DeJaneiro, Brazil
6	Dagmas Niebur	Drexel University, USA
7	Yi Yang	Georgia Tech., USA
8	Yamille Del Valle	Georgia Tech., USA
9	Joy Mazumdar	Georgia Tech., USA
10	Mohamed El-Sharkawi	Univ. of Washington, USA
11	Nisheeth Singh	ETRANS, Switzerland
12	David Cartes	Florida St. Univ., USA
13	Richard Welch	Univ. of Missouri-Rolla, USA
14	Sanjeev Srivastava	CAPS, Florida State Univ., USA
15	Sukumar Mishra	IIT, Delhi, India
16	Ned Mohan	Univ. of Minnesota, USA
17	Brent Brobath	AREVA T&D, USA
18	Georges Simard	Hydro-Quebec, Canada
19	Chan-Nan Lu	National Sun Yat-Sen Univ., Taiwan
20	Wei-Jen Lee	Univ. of Texas at Arlington, USA
21	Jean Carlos Hernandez Mgia	Georgia Tech.,USA
22	Kwang Y. Lee	Penn State Univ., USA
23	Anurog K. Srivastara	Mississippi State Univ., USA
24	Tridib Das	Univ. of Missouri-Rolla, USA
25	Mani Hunjan	Univ. of Missouri-Rolla, USA
26	Benjamin Jeyasurya	Memorial Univ. of Newfoundland, Canada
27	Sakis Meliopoulos	Georgia Tech., USA
28	Wei Qiao	Georgia Tech., USA
29	Sandhya Jetty	Univ. of Missouri-Rolla, USA
30	Vamsi Polisetty	Univ. of Missouri-Rolla, USA

2. APPROVAL OF 2005 ICSTF MINIUTES

Prof. Mohammed El-Sharkawi put forward the motion to approve the minutes of the 2005 ICSTF San Francisco meeting and it was seconded by Sanjeev Srivastava. The members of the ICSTF approved the minutes as submitted.

3. ANNOUNCEMENTS

The Chair announced that the ICSTF has organized the first panel session on “Intelligent Techniques for Power System Generation Control” and is scheduled for Tuesday, June 20th, 2006 from 2 pm to 5 pm. Members of the TF were encouraged to attend the panel session.

PRESENTATIONS AND PANELISTS:

- 06GM1257, Toward a Self-Healing Energy Infrastructure
M. AMIN, *University of Minnesota*
P. AMIN, *University of Minnesota*
- 06GM1265, Excitation Systems: The Current State of the Art
M. BASLER, *Basler Electric Co.*
- 06GM0642, Artificial Intelligence Techniques Applied to Adaptive Power System Stabilizer Design
O. MALIK, *University of Calgary*
- 06GM1137, Tuning of Generator Excitation Systems Using Meta-Heuristics
E. VIVEROS, *Federal University of Rio de Janeiro*
G. TARANTO, *Federal University of Rio de Janeiro*
D. FALCÃO, *Federal University of Rio de Janeiro*
- 06GM1094, Intelligent Optimal Control of Excitation and Turbine Systems in Power Networks
G. VENAYAGAMOORTHY, *University of Missouri-Rolla*
R. HARLEY, *Georgia Institute of Technology*
- 06GM1259, Intelligent Techniques Applied to Power Plant Control
K. LEE, *Penn State University*

4. PANEL SESSIONS

The TF will be organizing three panel sessions during the next three years at the 2006 PES GM, 2007 PES GM and 2008 PES GM on Intelligent Techniques for Power System Generation Control, Power System Transmission Control and Power System Distribution Control respectively.

The ICSTF will be organizing a panel session on “Intelligent Techniques for Power System Transmission Control” at the PES GM07 Tampa meeting. Potential panelists include: Aty Edris, Ron Harley, N Hingorani, Kwang Lee, Om Malik, Mohammed EL-Sharkawi and G. K. Venayagamoorthy. Suggestions were welcome via email to the chair from the members.

The main objective of the panel sessions is to establish and document comparative studies of control schemes based on conventional techniques and intelligent techniques.

Some of the attendees proposed to have a panel session or tutorials on real-time implementation of intelligent control techniques.

The proceedings of these three panels will be documented through publications in the appropriate IEEE PES transactions.

5. EDITED BOOKS

Members of the ICSTF agreed that the idea of having three separate edited books for the topics covered by three panel sessions of 2006 (Generation control), 2007 (Transmission control) and 2008 (Distribution control) is a good idea. Call for chapters will be sent out on power globe and to the members of the ICSTF. A potential target date for publication of the first of three edited books is intended for 2007 and subsequent ones in 2008 and 2009. IEEE-Wiley publications will be contacted to get the proposals in.

6. TUTORIALS

The task force members like the proposal of having a tutorial on “Intelligent Techniques Applied to Generation Control” at the PES GM and ISAP meeting in 2008/2009.

7. ICSTF WEBSITE

The chair mentioned that the Real-Time Power and Intelligent Systems Laboratory at the University of Missouri-Rolla (from Jan. 1, 2008 will be the Missouri University of Science and Technology) is hosting the current website for the ICSTF – http://www.ece.umr.edu/RTPIS/ICSTF/IEEE_PES_ICSTF.html.

A few suggestions were made regarding the availability of web space for the ICSTF website which includes <http://ewh.ieee.org> and having its own domain. The webpage may include the email addresses of the members.

The chair invited researchers to email him any code to be made available to the public through this TF website.

8. NEW BUSINESS

The chair announced the activities of the members of the ICSTF at the following conferences and symposiums.

- IEEE WCCI July 2006 – Three invited sessions on the applications of computational intelligence in power systems has been organized by Drs. Venayagamoorthy and Harley.
- IEEE CIS Series of Symposiums, April 2007 – Invitation to members to participate. A tutorial is planned by the TF at this meeting.
- IEEE PES, June 2007 - Invitation to members to participate.
- IEEE PES Africa Power, July 2007 - Invitation to members to participate. A tutorial is planned by the TF at this meeting.
- ISAP, Nov. 2007- Invitation to members to participate.

9. MISCELLANEOUS

The chair announced that Professor Ron Harley is taking office as the Vice-Chair of the task force.

The meeting was adjourned at 1.58 PM.

Respectfully submitted,

Ganesh Kumar Venayagamoorthy

Chair: IEEE PES Intelligent Control System Task Force