

## Proposal for the Special Session in IEEE H I S 2009

Title of the proposed special session:

### Hybrid Intelligent Techniques for Power, Control and Communication

Basic Information:

Research in the area of hybridization of intelligent evolutionary computing techniques like GA, PSO , ACO, SA, BFO with the local search techniques and with that of other soft computing techniques like ANN, Fuzzy logic has grown at an exponential rate around the globe. These hybrid algorithms have been successfully applied to a wide range of complex, real- world applications.

This special session on “Hybrid Intelligent Techniques for Power, Control and Communication” aims to cater the need of the power system engineers and researchers to solve complex optimization problems related to the planning, operation and control of largely interconnected power systems. Similar techniques also have a wide application in communication and control areas.

The topics of interest but not limited to

#### Application of Hybrid Intelligent Techniques

- (i) Power System planning (Transmission and Distribution system)
- (ii) Power system Operation and Control
- (iii) Power System Economics
- (iv) Intelligent Techniques for Control and Automation
- (v) Communication and Networking

### Organizers

**B K Panigrahi**

Department of Electrical Engineering  
IIT, Delhi, India

[bkpanigrahi@ee.iitd.ac.in](mailto:bkpanigrahi@ee.iitd.ac.in)

**Ajith Abraham**

Centre for Quantifiable Quality of Service in Communication Systems,  
Centre of Excellence, Norwegian University of Science and Technology,  
O.S. Bragstads plass 2E, NO-7491 Trondheim, Norway.

[ajith.abraham@ieee.org](mailto:ajith.abraham@ieee.org)