



SIGAI Workshop on Emerging Research Trends in Artificial Intelligence (ERTAI-2010)

17th April, 2010, C-DAC, Navi Mumbai

Supported by Computer Society of India (CSI)



Background

AI has always been a research-rich field with a number of challenging and practically significant problems spanning many areas. These include language processing, multi-agent systems, web mining, information retrieval, semantic web, e-learning, optimization problems, pattern recognition, etc. AI, hence, can offer a wide range of challenging problems matching the palate of every academic or professional. However, most colleges and universities do not have experienced AI researchers to work in these areas.

We also observe an increasing interest among the Indian academia to pursue research, usually aimed at PhD. However, lack of guides with rich research experience often makes it hard for new and aspiring research scholars to identify relevant and useful research topics and to get guidance on their approach and direction. A forum where those pursuing research can exchange ideas and seek guidance, and those seeking to get into research can get a feel of current research would be valuable for both groups.

This is the backdrop driving SIGAI to organize a workshop of this nature.

Proposed Structure of Workshop

It will be a one day programme consisting of

- Invited talks covering current trends, specific challenges, etc in AI
- Invited talks on mentoring research scholars on publication, research methodology, etc
- Presentations by those currently pursuing research in AI area.

We will have a panel of experienced researchers to evaluate and mentor the research presentations.

Call for Papers

For the research presentations, we are now inviting brief research papers of 5 to 6 pages, outlining the problem being addressed, approach followed vis a vis existing approaches, current

status / results, and future plans. A subset will be short-listed for presentation, based on a formal review process. Papers must have significant AI content to be considered for presentation. Relevant topics include (but are not limited to):

Knowledge Representation	Reasoning
Model-Based Learning	Expert Systems
Data Mining	State Space Search
Cognitive Systems	Vision & Perception
Intelligent User-Interfaces	Reactive AI
Ambient Intelligence	Artificial Life
Evolutionary Computing	Fuzzy Systems
Uncertainty in AI	Machine Learning
Constraint Satisfaction	Ontologies
Natural Language Processing	Pattern Recognition
Intelligent Agents	Soft Computing
Planning & Scheduling	Neural Networks
Case-Based Reasoning	

Target Audience

Target audience will be primarily:

- Faculty members pursuing research involving AI as the base or as a tool for an application.
- Faculty members interested in pursuing research and exploring areas / options.
- Research scholars working for a post-graduate degree.
- Students seriously interested in research, specifically on AI.

Important Dates

Last date for paper submission: 10th March, 2010

Acceptance intimation: 25th March, 2010

Camera ready copy due: 5th April, 2010

Contact

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CSI Special Interest Group on AI (SIGAI)

Convenors: Prof PVS Rao and Dr S Ramani.

Secretary: Dr M Sasikumar.