

About the Speaker



Prof. Massimo Poesio is a Professor of Computer Science in the School of Computer Science and Electronic Engineering, University of Essex (UK) and a Professor in Computational Linguistics at the Center for Mind/Brain Sciences, University of Trento, Italy. He is a cognitive scientist with a particular focus on human language technology; his research interests include computational models of semantic interpretation (especially anaphora resolution); the creation of large corpora of semantically annotated data, also using games-with-a-purpose (www.phrasedetectives.org); the study of conceptual knowledge using a combination of methods from human language technology and from neuroscience; emotions and their influence on language interpretation and on agent technology and deception detection

Course Coordinators



Prof. Pushpak Bhattacharyya is a Professor of Computer Science and Engineering at IIT Bombay and currently the Professor and Director of IIT Patna. He was a Visiting research fellow in Massachusetts Institute of Technology in 1990. He is well known for his contributions to natural language processing and has several distinctions in that field. He has also currently been appointed as Vijay and Sita Vashee Chair Professor at IITB. He is the fellow of INAE and the president of ACL.



Dr. Asif Ekbal is currently a faculty member of the department of Computer Science and Engineering at Indian Institute of Technology Patna, India. His current research interests include Natural Language Processing, Machine Learning Applications, Information Extraction and Biotext Mining. He is the recipient of the Best Innovative Project Award from the INAE, best paper award in ICACCI 2012 etc.



Dr. Sriparna Saha is currently a faculty member of the Department of Computer Science and Engineering, Indian Institute of Technology Patna, India. Her current research interests include pattern recognition multi-objective optimization and biomedical information extraction. She is the recipient of the Lt Rashi Roy Memorial Gold Medal from ISI Kolkata, Google India Women in Engineering Award, 2008, Junior Humboldt Research Fellowship etc.

IITP-AI-NLP-ML GROUP

The Artificial Intelligence-Natural Language Processing-Machine Learning (AI-NLP-ML) group (<http://www.iitp.ac.in/~ai-nlp-ml/>) at IIT Patna has started its official journey in June, 2015. The group is dedicated to explore the frontiers of Artificial Intelligence, Machine Learning and Natural Language Processing under the able guidance of Prof. Pushpak Bhattacharyya. The group also consists of other two faculty members, Dr. Asif Ekbal and Dr. Sriparna Saha, and around 20 members including research scholars, research engineers, lexicographers, B.Tech & M.Tech students. Several industry sponsored projects are currently being undertaken. Elsevier, the renowned scientific literature publishing company has set up the **Elsevier Centre of Excellence for Natural Language Processing** to conduct research and development in some of the novel areas of AI, NLP and ML. Another company, ezDI has set up the **Sushrut-eZDI Research Lab** on Health Informatics, which is dedicated towards developing products for health care and contribute to research having significant outcomes. AI-NLP-ML group recently signed MoU with **Accenture Pvt. Limited** for research on Question-Answering, Multilingual Support and Virtual Agent.

ORGANIZING COMMITTEE

Dr. Pushpak Bhattacharyya
Director, IIT Patna

Dr. Asif Ekbal
Asst. Professor,
IIT Patna

Dr. Sriparna Saha
Asst. Professor,
IIT Patna

Registration Link:-

<http://www.gian.iitkgp.ac.in/GREGN/index>

CONTACT US:

TIRTHANKAR GHOSAL:-9832669697

PRATIK DUTTA:-9431432366

Global Initiative of Academics Networks(GIAN) Workshop

ON

Cognitive Science for Computational Linguists

27th - 31st March, 2017

इशारत

Organized By
IITP-AI-NLP-ML GROUP



Department of
Computer Science and Engineering,
Indian Institute of Technology, Patna
Bihta, Bihar, India.

About the GIAN

Govt. of India approved a new program titled Global Initiative of Academic Networks (GIAN) in Higher Education aimed at tapping the talent pool of scientists and entrepreneurs, internationally to encourage their engagement with the institutes of Higher Education in India so as to augment the country's existing academic resources, accelerate the pace of quality reform, and elevate India's scientific and technological capacity to global excellence.

Scope of the WORKSHOP

Cognitive science is the scientific study of the human mind. The field is highly interdisciplinary, combining ideas and methods from psychology, computer science, linguistics, philosophy, and neuroscience. Broadly speaking, the goal is to characterize the nature of human knowledge -- its forms and content -- and how that knowledge is used, processed, and acquired. Active areas of cognitive research include language, memory, visual perception and cognition, thinking and reasoning, social cognition, decision making, and cognitive development.

Important insights into issues of these kinds have been achieved in recent years as a result of the various Cognitive Science disciplines converging in their theoretical and methodological approaches. It is this convergence, in fact, that warrants grouping the disciplines together under the single term "Cognitive Science." Even greater progress can be expected in the future as a consequence of increasing cooperation among the disciplines.

About IIT Patna

Indian Institute of Technology Patna is an autonomous institute of education and research in science, engineering and technology located in Bihta, 35km from Patna. As of today, IIT Patna has 10 academic departments that offer B.Tech, M.Tech and PhD programs. The faculty members of this institute come with academic and research training from various institutes of excellence within the country and abroad. The recent publication records of the faculty with several practical constraints appear to be outstanding. It includes many national and international journals of repute. Recently, IIT Patna has been ranked as the **10th best engineering college** in the recently released ranking by the Human Resource Ministry, Govt. of India.

Registration Fees

The Participation fees for attending the workshop is as follows:

Participant from abroad:	US \$200
Industry/Research Organization:	Rs. 10,000
Academic Institutions Faculty/Staff:	Rs. 6,000
Student/Research Scholar:	Rs. 1,000

****Participation fees for SC/ST candidates will be 50% of above mentioned fees.**

The above fee includes all instructional materials, tutorials, and 24 hours Internet facility. The participants will be provided with food and accommodation on payment basis.

How to Apply

Please follow the link for Registration process and for further details of this workshop:

<http://www.gian.iitkgp.ac.in/GREGN/index>

**Workshop Registration Deadline Preferably:
20th February, 2017.**

Topics to be Covered

- 1) Introduction to Cognitive Science and Neuroscience**
- 2) Perception and attention**
Visual and auditory perception attention, Eye-tracking. Applications of eye-tracking in HCI.
- 3) Conceptual representations in the mind and the brain.**
Concepts: Prototype theory, concept acquisition. The neural representation of concepts.
- 4) Sentence processing**
Ambiguity, incrementally and disambiguation in lexical processing, syntax processing, and anaphoric processing, ERPs
- 5) Emotions in the mind and the brain**
Theories of emotions. The neural representation of emotions. Applications in designing artificial agents
- 6) Designing cognitively plausible virtual agent.**