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# 3rd International Conference on Soft Computing for Problem Solving

(SocProS 2013)  
www.socpros13.scrs.in  
December 26 -28, 2013

Organized by  
**SAHARANPUR CAMPUS**  
of  
**INDIAN INSTITUTE OF TECHNOLOGY ROORKEE**  
www.iitr.ernet.in



Co-organized by  
SIG (SAEM) and SIG (EMS)  
Berkeley Initiative in Soft Computing  
Department of Electrical Engineering & Computer Science  
University of California, Berkeley  
USA

Venue:  
**Greater Noida Extension Centre  
IIT Roorkee**  
20, Knowledge Park II  
Greater Noida (U.P.) - 201306 INDIA



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### About Indian Institute of Technolgy Roorkee

The Indian Institute of Technology Roorkee at Roorkee has culminated from the oldest technical institution of the Indian sub-continent, established as the "Roorkee College of Engineering" in 1847 and rechristened as the "Thomson College of Civil Engineering" in 1854. Due to its numerous contributions towards the development of the country for over 100 years, this temple of learning was elevated to the status of a University, i.e. the University of Roorkee, the first technical university of India in 1949. This University of Roorkee was converted to IIT Roorkee by the Government of India on September 21, 2001, thereby further elevating it to an Institute of national importance. Over the years, it has built up and maintained an excellent academic reputation. The outstanding achievements of its alumni are a testimony to this. The IIT Roorkee has academic departments in the areas of Engineering, Sciences, Architecture and Planning, Management studies, Humanities and Social Sciences besides many Centres of higher education and research. In addition, IITR has a Campus located at Saharanpur and an Extension Centre at Greater Noida.

### About Saharanpur Campus

Saharanpur Campus of IIT Roorkee is a well planned Campus having Department of Paper Technology offering academic programs at various levels in Pulp and Paper Technology, Polymer Science and Technology, Process Engineering and Management. It has a well developed academic infrastructure and Its faculty is engaged in teaching, research and industrial consultancy. The Department is the predecessor of School of Paper Technology established by the Government of India in 1964, with an aid from the Royal Swedish Government. This School was managed by a Society created by U.P. Government until its merger with the then University of Roorkee in 1978. The School was renamed as the Institute of Paper Technology in July 1968 and subsequently Department of Paper Technology of IIT Roorkee in July 1992.

### About Greater Noida Extension Centre

The IIT Roorkee has an Extension Centre at Greater Noida (GNEC) that has an academic block with state of art facilities including computer labs with latest software, a well equipped library and a 100-rooms hostel. It has evolved as a Permanent Marketing Cell in order to showcase IITRs strength and capabilities to industries and organizations, in particular to those located in NCR / Delhi.

### About Theme

The term Soft Computing represents a collection or set of computational techniques in machine learning, computer science and some engineering disciplines, which investigate,

simulate, and analyze very complex issues and phenomena. SocProS13 aims to bring together researchers, engineers and practitioners to present the latest achievements and innovations in the interdisciplinary areas of soft computing, to discuss thought-provoking developments and challenges, to consider potential future directions. One of the objectives of the conference is to encourage participation by young researchers; to this end student papers will be given special consideration.

### About SocProS

SocProS is a three year young series of International Conferences under the joint collaboration between a group of faculty members from IIT Roorkee, ABV-IIIITM Gwalior and Liverpool Hope University, UK. The first SocProS was held at IE(I),RLC, Roorkee, Dec 20-22, 2011, attracting a large number of national and international researchers. The second SocProS was held at JKLU, Jaipur, Dec 28-20, 2012 and was a grand success. These "go-green" conferences used the online submission system Easychair and the proceedings were published online by Springer. The 3<sup>rd</sup> Conference, namely SocProS 2013 will be held in the Greater Noida Extension Centre of IIT Roorkee.

### Call For Papers

Authors are invited to submit their original and unpublished work in the areas including, but not limited to:

#### Algorithms :

Artificial Immune System, Artificial Neural Networks, Bacteria Foraging Optimization, Bees Algorithms, Differential Evolution, Fuzzy Systems, Genetic Algorithms, Genetic Programming, Harmony Search, Memetic Computing, Neuro Fuzzy Systems, Particle Swarm Optimization, Robotics, Simulated Annealing, Stochastic Diffusion Search, Tabu Search

#### Applications :

Control systems, Data Mining and Clustering, Defence, Engineering, Finance, Forecasting, Games, Grid Computing, Image Processing, Nano technology, Optimization, Scheduling and Time-tabling, Signal Processing, Supply Chain Management, Web Mining and Text Mining, Wireless Sensor Networks

### Conference Proceedings

Proceedings will be published online in the AISC Series of Springer.

### Awards

Best Paper  
Best Student Paper  
Best Innovative Paper  
Outstanding Doctoral Thesis

### Submission of Papers

All submission have to be made online using the link <https://www.easychair.org/conferences/?conf=socpros2013>. Authors of accepted papers will be allowed to resubmit camera-ready papers after incorporating reviewers' comments within the stipulated deadline. Authors of accepted papers have to register for the conference and personally Present their paper (s) in the Conference.

### Important Dates

Paper Submission : July 15, 2013  
Notification of Acceptance : August 30, 2013  
Camera-ready Submission : September 15, 2013  
Registration : September 15, 2013

### REGISTRATION FEE

Registration fee includes conference proceedings published by Springer, conference bag, breakfast and lunch on all three days and gala dinner. Limited accommodation will be arranged on first-cum-first serve basis. One registration will cover only one paper of 12 pages. Extra's will be charged separately. The Rate of Registration are :

Regular author : ₹ 9000 / US\$ 500  
Full time student author : ₹ 5000 / US\$ 350  
Extra paper charges : ₹ 4500 / US\$ 200  
Extra page charges : ₹ 2000 / US\$ 100  
Only attending : ₹ 2000 / US\$ 100  
Accompanying Person : ₹ 2000 / US\$ 100  
Best Doctoral Thesis : ₹ 2000 / US\$ 100

**Note :** Concession of ₹ 1000 / US\$ 50 will be given in each Category to all members of the soft Computing Research Society.

Demand Draft should be drawn in favor of: **The Registrar, IIT Roorkee (SOCPROS 2013)** and should be Payable at **Roorkee**. Scanned copy of Registration Form and Demand Draft should be emailed to [socpros13@scrs.in](mailto:socpros13@scrs.in). Original should be posted to :

**Prof. Kusum Deep**  
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Indian Institute of Technology Roorkee  
Roorkee - 247 667 Uttarakhand, India

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(SocProS 2013)  
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December 26 -28, 2013

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Email : .....  
Mobile : .....

Registration Category	Amount
Regular author	
Full time student author	
Extra paper charge	
Extra page charge	
Only attending	
Accompanying Person	
Best Doctoral Thesis	
Member of Soft Computing Research Society	
<b>TOTAL</b>	

Title of the Paper: .....  
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Accommodation required: Yes/No  
If yes: Single/Double  
Details of Demand Draft:  
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