

REGISTRATION

Registration form in the prescribed format along with the required Demand Draft should reach the Convener on or before **15th March 2010**. The registered participants list will be notified in the institute website www.iter.ac.in on or before **15th March 2010**. Also an email communication along with the schedule will be sent to the participants. The DD should be done in favour of **“SOA University”** payable at **Bhubaneswar**.

The registration form can also be downloaded from our institute web site www.iter.ac.in

REGISTRATION FEE

Faculty	: Rs. 1500/-
Professionals from Industry and Software Company	: Rs. 3000/-
Senior B. Tech, M. Tech. and Ph. D. students	: Rs. 500/-

ADDRESS FOR CORRESPONDENCE

Dr. Babita Majhi
Assistant Professor
Department of Information Technology
Institute of Technical Education and Research (ITER)
Siksha ‘O’ Anusandhan University,
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Bhubaneswar – 751030
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OBJECTIVE

The objective of the workshop is :

To provide a special forum to bring together different stakeholders from various parts of the country to a single platform to exchange views and share knowledge in the area of swarm intelligence.

To facilitate new comers for getting exposure to this new field and for developing fundamentals in this field.

To introduce the participants various applications of swarm intelligence

To demonstrate working software on swarm intelligence and applications

ABOUT THE INSTITUTE

The Institute of Technical Education and Research (ITER), established in 1996-97, is located at Bhubaneswar and is known for imparting quality technical education in the state of Orissa. It is 8 kilometers from Bhubaneswar Railway Station, 4 kilometers from the Airport and 2 kilometers from the Govt. bus stand. The National Board of Accreditation (AICTE) has already accredited and reaccredited all its ongoing eligible programmes. ITER has gained respectability in technical education for its innovative curriculum, impressive placement, excellent industries interface and well qualified faculty members. The institute has signed MOU with IMMT, NALCO, CIPET, Infosys, Mindtree, Hexaware, and Wipro for carrying out collaborative research and software and product development.

DST SPONSORED NATIONAL WORKSHOP

ON

SWARM INTELLIGENCE : THEORY AND APPLICATIONS

(20th and 21st March 2010)

Convener

Dr. Babita Majhi

Department of Information Technology



Institute of Technical Education and Research
Siksha ‘O’ Anusandhan University
(Declared U/S 3 of UGC Act, 1956)
Jagamohan Nagar, Khandagiri
Bhubaneswar - 751030

REGISTRATION FORM

Name : -----

Category : Student
Academician
Engineer / Professional

(tick whichever is applicable)

Address : -----

Email :

Cell :

Registration fee : Rs. -----

In words Rupees -----
----- only.

Demand draft number / date/ name of bank

Date :

Signature -----

SWARM INTELLIGENCE

Swarm Intelligence (SI) describes the collective behavior of decentralized self-organized artificial systems. SI is made up of a population of simple agents interacting with one another and with environment following simple rules. Natural examples of SI include ant colonies, bird flocking, animal herding, bacterial growth and fish schooling.

TOPICS TO BE COVERED

- (i) Introduction to Soft Computing, Evolutionary Computing and swarm intelligence techniques.
- (ii) Genetic Algorithm : Single objective, multi-objective and applications
- (iii) Particle swarm optimization : Single objective, multi-objective and applications
- (iv) Bacterial foraging optimization : Single objective, Multi-objective and Applications
- (v) Differential evolution : Single objective, Multi-objective and Applications
- (vi) Cat swarm optimization: Single objective, Multi-objective and Applications
- (vii) Ant colony optimization : Single objective, Multi-objective and applications

RESOURCE PERSONS

Prof. P. K. Dash, D. Sc.(U.U),FNAE, ITER, Bhubaneswar
Prof. Ganapati Panda, FNAE, FNASc., IIT Bhubaneswar
Prof. Sukumar Mishra, FNAE, IIT Delhi
Prof. Bijaya Ketan Panigrahi, IIT Delhi
Prof. Ujjal Malick, Jadavpur University, Kolkata
Prof. P. K. Nanda, ITER, Bhubaneswar

CHIEF PATRON

Prof. Manojranjan Nayak

PATRON

Prof. M. P. Jain

MEMBERS OF ADVISORY COMMITTEE

Prof. L. M. Pattnaik, FNA, FNAE, FNASc.,
Prof. B. K. Sarap
Prof. P. K. Dash, D. Sc., FNAE,
Prof. G. Panda, FNAE, FNASc.
Prof. K. K. Mishra
Prof. S. C. Mishra
Prof. A. Konar
Prof. B. K. Panigrahi
Prof. S. Mishra, FNAE
Prof. A.K. Pradhan
Prof. S. Das
Prof. A. K. Saxena
Prof. P. K. Nanda

ORGANIZING COMMITTEE MEMBERS

Dr. Manas Ku. Mallick
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Alok Ku. Jagadev
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J. R. Das
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Subashis Mahapatra
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Minakhi Rout
Sharmistha Kar