One Day Workshop
on
“Swarm Intelligence: Illustrated”
12th September 2015

REGISTRATION FORM

Name of the Applicant:
Designation:
Qualification:
Experience:
Email ID:
Institution Address:
Address of Communication:

Mobile Number:
Demand Draft No.:
DD Date:
Name of the Bank:
Date:
Place:

Signature of the Applicant

ORGANIZING COMMITTEE

Chief Patron: Dr. M. Rajaram
Vice – Chancellor, Anna University

Patron: Dr. S. Ganesan
Registrar, Anna University

Chair: Dr. M. Saravanakumar
Dean, Anna University – RC CBE

Convener: Dr. S. N. Deepa
Associate Prof/EEE, AU – RC CBE

Coordinators: Dr. T. Aruldoss Albert Victoire
& Dr. M. Yuvaraju
Associate Prof/EEE, AU – RC CBE

ADDRESS FOR COMMUNICATION

Any queries and the completed registration form may be sent to:
Dr. S. N. Deepa
Convener
Swarm Intelligence: Illustrated
Dept. of Electrical and Electronics Engineering
Anna University, Regional Office, Coimbatore
Navavoor
Coimbatore – 641 046
Mobile No: 09940342544 (Mr. Naraina, EEE Dept.)
Email ID: autcbeeee@gmail.com
Website: www.annauniv.edu

ONE DAY WORKSHOP
on
SWARM INTELLIGENCE: ILLUSTRATED

12th September 2015

ORGANIZED BY

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
ANNA UNIVERSITY
REGIONAL OFFICE, COIMBATORE
NAVAVOOR
Coimbatore – 641 046
### ABOUT THE UNIVERSITY

Anna University was established on 4th September 1978 as a unitary type of University. It offers higher education in Engineering, Technology and Allied Sciences relevant to the current and projected needs of the society. Besides promoting research and disseminating knowledge gained there from, it fosters cooperation between the academic and industrial communities. Anna University, which is of the affiliated type is a member of the Association of Indian Universities, the Association of Commonwealth Universities and Partner of UNESCO International Center for Engineering Education (UICEE). With proven capabilities both in Academic and Research areas, Anna University was able to receive this honour for a period of five years for excellence in Technical Education.

### ABOUT THE DEPARTMENT

University Department of Electrical and Electronics Engineering established in the year 2007, with its dedicated body of well qualified faculty, technical staff and students is a multi-disciplinary centre of excellence in the specialization of Power Systems Engineering, Electrical Drives and Embedded Control, Power Electronics and Drives, Control and Instrumentation, Embedded System Technologies and Core Electrical Engineering through education, consultancy and research. The Department offers 5 Full-Time and 3 Part – Time M.E Programmes and a B.E Part – Time Programme. The Department has well established laboratories, which includes power electronics and drives laboratory, measurement and instrumentation laboratory, control system laboratory, modeling and simulation and process control laboratory. The department actively involves in various research areas which includes soft computing, optimization approaches, power systems, modeling and simulation, control systems, image processing and power quality.

### ABOUT THE WORKSHOP

Swarm Intelligence: Illustrated is aimed to enrich the participants on the basic concepts of Swarm based Optimization and its modified forms, which aids in achieving better solutions for research problems under consideration. Swarm algorithms have been applied to find solutions for several science and engineering problems. This Workshop is to enable the participants gain a complete knowledge on the implementation of these concepts and as well the algorithmic work flow.

### SCOPE OF THE WORKSHOP

This workshop aims to provide a platform for interaction and to discuss the recent advances, new paradigms, technological trends and challenges in the field of Swarm Intelligence Algorithms, more specific to illustration of PSO and its Variants. Also this workshop will provide an opportunity to exchange ideas on the topics of importance along with thought provoking technical sessions.

### TARGET AUDIENCE

The Members of the Faculty, Final year UG students and PG students from Engineering Colleges/Universities who have interest in the field of Swarm Intelligence and those who are performing research in the same field. No TA and DA will be provided for the participants. No accommodation will be provided. The Number of Participants limited to 40. The participants will be selected based on first come first serve basis.

### COURSE CONTENT

- Principles of Optimization : An overview
- Swarm Intelligence: An Introduction
- Particle Swarm Optimization: Complete Algorithm and Illustration
- Variants of PSO – Modified PSO, Unified PSO
- Comprehensive Learning PSO
- MATLAB PSO Toolbox - Demonstration

### REGISTRATION FEE

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<thead>
<tr>
<th>Category</th>
<th>Fee</th>
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<tr>
<td>UG Students, PG Students, Research scholars and Faculty members</td>
<td>Rs. 600/-</td>
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The fee should be paid only through DD in favor of “EEE Association”, Anna University, Regional Office (Coimbatore), payable at Coimbatore.

### IMPORTANT DATES

- Last Date for Registration: 09.09.2015
- Date of Intimation of Selection: 10.09.2015