

**Computer Science &
Information Technology**

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Computer Science & Information Technology

National Conference on Advancement of Computing in Engineering
Research (ACER 13)
Krishnagar, West Bengal, INDIA, 2013



in association with



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ISSN : 2231 - 5403

ISBN : 978-1-921987-11-3

DOI : 10.5121/csit.2013.3201 - 10.5121/csit.2013.3245

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Typesetting: Camera-ready by author, data conversion by NnN Net Solutions Private Ltd., Chennai, India

Preface

From the time immemorial man has been trying to make advancement in him and in all that is around him. Newer explorations and new discoveries has become a testimony of the same for years. The National Conference 'Advancement of Computing in Engineering Research' (ACER-13) at Global Institute of Management and Technology (GIMT), Krishnanagar, West Bengal, India during March 22 – 23, 2013 is one such effort to explore the recent advancements in Science, Engineering and Technology.

Today's engineering system not only comprises black boxes rather intelligent black boxes, which enhances adaptability and decision-making in almost all applications. Due to the emergence of new fields of Mathematics such as denotation over and above propositional logic, fuzzy, neuro & others, the scientist and researchers have been developing cognitive science. Consequently cognitive computing which is required to be incorporated to make future systems function in resemblance with human systems has been evolved. Several forums, like Ambient Intelligence, Pervasive Computing *etc.* have been made throughout the world by breaking the barriers of different fields of Engineering and Sciences. This will not only help to prosper the engineering fields but will also build future systems like cognitive automobiles, cognitive robot, cognitive internet *etc.* The conference would provide a platform for engineers, academicians and researchers of India to present their new findings, share and exchange innovative ideas among the participants and the eminent professors, scientists who would be present during those days.

The ACER-13 Committee cordially invites submissions for several months from researchers, scientists, engineers, students and practitioners related to the relevant themes and tracks of the conference. This endeavor assures unparalleled number of contributions. All the submitted articles undergo an arduous peer-review procedure which comprises connoisseur reviewers. The reviewers are selected on the basis of their proficiency. The papers are reviewed based on their contributions, technical content, originality and clarity. The entire process is done electronically by the *easychair* submission procedure. All these efforts undertaken by us lead to a stimulating, prosperous and a premium technical conference programme.

We would like to thank IEEE, Kolkata Section, ORSI, Kolkata Chapter and Rural development Forum, IEI for their kind association with the conference. We are thankful to AIRCC for publishing the Conference Proceeding. We are indebted to the members of the Organizing Committee, the members of the Technical Advisory Committee, the external reviewers and specially Mr. Suprativ Saha (The Organizing Convener), Mr. Pratyush Das (The Conference Treasurer) and Mr. Dipankar Saha and Mr. Banibrata Sen (The Organizing Coordinators) for their excellent and tireless work.

It is our immense pride and pleasure that such a conference is being organized by GIMT. We believe that this Conference would open many new doors of invention and would have a positive effect upon the whole society. It is the humble wish of the conference organizers that the proficient discussion among the researchers, scientists, engineers, students and educators continues further than the event and that the companionships and collaborations forged will linger and prosper for many years to come.

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