



**GANDHI INSTITUTE FOR EDUCATION AND TECHNOLOGY**



**TWO DAYS NATIONAL CONFERENCE  
ON  
RECENT TRENDS IN SOFT COMPUTING AND ITS  
APPLICATION  
(RTSCA-2K17 )  
POST CONFERENCE REPORT**

Two Days National Conference  
on  
**RECENT TRENDS IN SOFT COMPUTING AND ITS APPLICATION**  
**(RTSCA-2K17)**  
15<sup>th</sup> & 16<sup>th</sup> SEPTEMBER 2017  
*Organized by*  
DEPT. OF COMPUTER SCIENCE & ENGG.  
*In association with*  
  
International Journal of Engineering and Science Invention (IJESI)  
  
**GANDHI INSTITUTE  
FOR EDUCATION AND TECHNOLOGY**  
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## Introduction

Soft Computing (SC) is an emerging field that consists of complementary elements of fuzzy logic, neural computing, evolutionary computation, machine learning and probabilistic reasoning. Due to their strong learning and cognitive ability and good tolerance of uncertainty and imprecision, soft computing techniques have found wide applications. This conference will focus on the cutting edge research on the area of soft computing the topic will include Neural Networks (NN), Evolutionary Algorithm(EA), Fuzzy Logic(FL), Swarm Intelligence(SI), etc.

**CHIEF PATRON**  
Dr. Satya Prakash Panda,  
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Prof. Jyoti Prakash Mishra,  
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**Co-CONVENOR**  
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**ORGANIZING COMMITTEE**  
Prof. Bibhudendu Mishra  
Prof. Raj Kumar Mishra  
Prof. Sambhakar Bhoude  
Prof. Anandhar Sahoo  
Ms. Swasthikanta Panda

**RESOURCE PERSONS**  
Dr. PRADMALOCAN BERA  
Associate Professor  
School of Electrical Science, IIT, Bhubaneswar  
Dr. PRASANT KUMAR SAMI  
Associate Professor & HOD  
School of Electrical Science, IIT, Bhubaneswar  
Dr. JITESH MISHRA  
HOD, Dept. of Computer Sci. & Application  
CET, Bhubaneswar  
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Dr. Professor  
School of Computer Engineering, KIIT University  
Dr. SRIKANT PATNAIK  
Professor, Computer Science and Engineering,  
SOA University,  
Dr. BIBHUDENDU PATI  
HOD, Dept. of Computer Sci. and Engineering,  
CVRCE, Bhubaneswar

**IMPORTANT DATES**  
June 1, 2017: Paper submission open  
July 30, 2017: Author Registration  
Aug 15, 2017: Paper submission deadline  
Aug 15, 2017: Camera Ready Submission

**PAPER SUBMISSION**  
Scholarly articles are invited from academicians, research scientists, engineers, consultants, and students for presentation related to the workshop. The articles should be concise and reflect the original thoughts, recent advances, research works, practical experiences related to the theme of the workshop.

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The department of Computer Science and Engineering of Gandhi Institute for Education and Technology organized a two days National Conference on Recent Trends in Soft Computing And Its Applications (RTSCA-2K17) in association with International journal of Engineering and Science Invention (IJESI) during 15<sup>th</sup> and 16<sup>th</sup> September 2017.

For the national Conference we have Prof. Dr K.R Srivathasn , Professor Emeritus as our chief guest, Dr. Prashanta Kumar Sahu, HOD, ES, IIT, Bhubaneswar, Dr.

PadmalocanBera , IIT, BBSR, Dr. N. Adikari Deputy Director Exam.BPUT , Dr. M. N. Das, School of Computer Engineering, KIIT University, Dr. SrikantaPattnaik, SOA University, Dr. BibhudenduPati , CVRCE, Bhubaneswar were invited as key note speaker.



The inaugural session was hosted by the students. They invited the resource persons and the dignitaries on to the dais. The conference was inaugurated by honorable chief guest Prof.Dr K.R Srivathasn, who is working a Professor Emeritus, in IIT , Bhubaneswar. In the inaugural session the Patron of the conference are the Vice Chairman of our institute Prof. J.P Mishra , Principle of the institute Prof.(Dr.) Mohan Charan Panda , Dean DSA Prof.(Dr.) Jivanananda Jena , the Guests of Honor and Speakers Prof.(Dr.) N. Adikari Deputy Director Exam.BPUT , Dr. M. N. Das, School of Computer Engineering, KIIT University ,the Convenor of the conference and HOD , Computer Science and Engineering Department, Prof. Dr. Anil Kumar Mishra lighted the lamp and inaugurated the function. In the mean while the students of GIET presented a wonderful opening song .

Welcome address was delivered by the  
Conference Convener

Prof. Dr Anil Kumar Mishra  
Prof. & HOD, CSE  
(Gandhi Institute for Education & Technology)



Welcome address was delivered by the  
Prof.(Dr.) Mohan Charan Panda  
Principal  
(Gandhi Institute for Education & Technology)



Welcome address was delivered by  
Prof.(Dr.) Jivanananda Jena  
Dean(DSA)  
( Gandhi Institute for Education & Technology)



Welcome address was delivered by  
Prof.(Dr.) J P Mishra  
Vice Chairman  
(Gandhi Institute for Education & Technology)



Address was delivered by  
Prof. Dr K.R Srivathasn,  
Professor Emeritus





At the end of the inaugural session Prof. N Samal proposed a vote of thanks to all the dignitary on the dais and of the dais.

NishaBhadra invited the resource persons for a technical talk and initiates the technical session.

In the technical session of the conference Prof.(Dr.) M. N. Das, gave a simple and well defining example of soft computing and AI. In his talk he gave a overall ideafrom Conventional AI to Computational Intelligence. In his talk he precisely explained Fuzzy Set theory and machine learning.He also explained the efficiency of their utilization in real life scenario. He gave a good number of examples of AI.



Prof.(Dr.) N. Adikari discussed about Various Soft Computing Tools like ANN, FUZZY Logic, ANFIS, Genetic Programming. She provided sufficient knowledge about some research areas. She also define ANN and how it is different from statistical method. Prof. (Dr.)N. Adikari discussed about the Optimization Tools and techniques of computing. She explained different uses of smart techniques in soft computing relevant to cloud

computing. She focused on the current techniques and their utilizations in current system of soft computing. She explained with suitable examples of YOUTUBE video uploading and search engine optimisation.



At the end of the session, the delegate paper presentation was conducted.

On the second day Dr. Prashanta Kumar Sahu, Dr. PadmalocanBera ,Dr. SrikantaPattnaik, and Dr. BibhudhenduPatipresented a key note talk on soft computing and its applications.



Prof.(Dr.) . Prashanta Kumar Sahu discussed about the different Optimization challenges and scopes of evolutionary algorithms in soft computing .He gave overview about Biological metaphors. He also discussed motivation and approaches

for new types of evolutionary algorithm. He focused on the current techniques and future resource areas in Autonomous EA.

Dr. **Padmalocan Bera**, had discussed with the faculty members and delegates several aspects that are associated with the soft computing and scalability . He explained traditional network, **Software Defined Network** , architecture and Digitization across the Globe. He also discussed security functions for SDN.



Prof.(Dr.) **Srikanta Pattnaik** presented a wonderful talk on soft computing through their dimensions. In his talk he emphasize on Research methodologies, identification of problem and finding possible solution approach which are really useful for participants, research scholars and academicians.



Prof.(Dr.) **Bibhudhendu Pati** presented talk on problem domain and finding the solution in the field of soft computing. In his talk he also gave the idea of how to write a menu script in a well formatted way.



At the end of the session the certificates to the delegates and the volunteers of the conference were distributed by Prof.(Dr.) **Bibhudhendu Pati** and Prof.(Dr.) Mohan Charan Panda.



And finally the session was concluded with a vote of thanks by Prof. N Samal, Co-Convenor, RTSCA-2K17, with a vote of thanks to all the resource persons, delegates, faculty members of various department and student volunteers of GIET.