Resource Persons:

Prof. P.L.N. Varma
Department of Mathematics
VIGNAN University

Prof. V. Srinivas Department of Mathematics Dr. B.R. Ambedkar Open University

Prof. B. Muniswamy
Department of Statistics
Andhra University,
Visakapatnam.

Prof. A.J. Parameswaran, FNA, FAS School of Mathematics TIFR. Mumbai.

Dr. N.Vijaya Lakshmi DST Women Scientist Speach Processing Laboratory, IIIT, Hyderabad.

Prof. A. Krishna Mohan Department of Computer Science & Engineering, JNTUK, Kakinada.

Registration Fee:

Registration is mandatory for at least one author of an accepted paper. Registration fee covers conference kit, lunch, refreshments etc.

Sl. No.	Category	Indian Authors	Foreign Authors
1.	Student	500	25 USD
2.	Faculty/ Research Scholars	1,000	50 USD
3.	Industry Person	1,500	75 USD
4.	Co-Author (Student/Faculty)	200/ 500	10 USD

Registration fee includes softcopy of conference proceedings, kit, refreshment and lunch.

Please note that registration fee does not include journal publication fee and accommodation.

MODE OF PAYMENT:

IMPORTANT DATES:

The Registration Fee is to be paid through SBI collect.

Detailed payment procedure available at

http://gcijyacin/downloads/conf_paymentpdf

Abstract : 25/11/2019
Submission of full paper : 05/12/2019
Intimation of Selected papers : 10/12/2019
Camera Ready copy & registration : 15/12/2019
Inaugural Ceremony - at 9:30 am on 20th Dec 2019
Dr. B. R. Ambedkar Seminar Hall,

Government College (Autonomous) Rajahmundry.

Address for Correspondence:
The Organising Secrectary, NCSCA -2K19
e-Mail: suneelcs@gcrjy.ac.in
ph: +917093455510, +917780288561

eMail: gcrjy1853@gcrjy.ac.in :: web: ww





Government College (Autonomous) Rajahmundry



(Affiliated to Adikavi Nannaya University)
Accredited with NAAC 'A' Grade in RAF 2017
College with Potential for Excellence
East Godavari District, Andhra Pradesh, India-533105

UGC Sponsored National Conference

Website: www.gcrjy.ac.in

"Soft Computing & Its Applications" NCSCA-2K19

20 - 21, December 2019



Organised by

Departments of Mathematics, Statistics and Computer Science & Applications

About the College:

Initially established in the year 1853 as zilla School, upgraded into higher education institute in the year 1873, the Government College (Autonomous), popularly known as Arts college, has been producing gems of students for adornment of mother India and spreading the knowledge across the globe. The students of this Alma matter were later turned to be giants in various spheres globally. In 1891 the college was affiliated to University of Madras. In 1926 the college was re-affiliated to Andhra University. The college was conferred with UGC- Autonomous status in 2000 and accredited with Grade 'A' by NAAC in 2004. Further, the College was re-accredited with Grade 'A' by NAAC in 2011 and again A Grade with CGPA of 3.19 in the Revised Accreditation Frame work during 2019. The college was conferred with "College with Potential for Excellence (CPE) status in 2016.

At present the college is offering 47 UG programs, 14 PG programs and 9Research programs to stimulate the intellectual curiosity of each student and foster a positive spirit among the stakeholders with student centric pedagogy with emphasis on all-round growth and progress of the students. The college is the only Government College identified by Logistics Sector Skill Council, MHRD, GOI for introducing Apprenticeship Based Under Graduate Degree Program in Logistics a uniquely designed program with 18 months study at College and 18 months industrial Apprenticeship and students are paid stipend during the apprenticeship period. The college caters to the educational needs of more than 5000 students hailing in and around the city of Rajamahendravaram. The college is striving to meet the global education standards for the benefit of young generations.

About the conference:

The Conference focuses on Soft Computing and its Applications. Soft computing deals with imprecision, uncertainty, partial truth and approximation to achieve compatibility, robustness and low solution cost. As such it forms the basis of a considerable amount of machine learning techniques. Operation research seeks the determination of the best(optimum) course of action of a decision problem under the restriction of limited resources.

Soft Computing and its Applications:

Soft computing is the use of approximate calculations to provide imprecise but usable solutions to complex computational problems. The approach enables solutions for problems that may be either unsolvable or just too time-consuming to solve with current hardware. Soft computing is sometimes referred to as computational intelligence.

Soft computing is based on natural as well as artificial ideas. Soft Computing techniques are Fuzzy Logic, Neural Network, Support Vector Machines, Evolutionary Computation and Machine Learning and Probabilistic Reasoning.

Soft computing provides an approach to problem-solving using means other than computers. With the human mind as a role model, soft computing is tolerant of partial truths, uncertainty, imprecision and approximation, unlike traditional computing models. The tolerance of soft computing allows researchers to approach some problems that traditional computing can't process.

Topics for Research Papers:

The areas of interest included, but are not limited to:-

- Fuzzy logic
- Machine learning
- Probabilistic reasoning
- Evolutionary computation
- Perceptron
- Genetic algorithms
- · Differential algorithms, Topology
- Support vector machines
- Meta heuristics
- Swarm intelligence

- Ant colony optimization
- Particle optimization
 Particle optimization
- Bayesian networks
- Artificial neural networks
- Expert systems
- Rough sets
- Simulated annealing
- DNA computing
- Quantum computing
- Membrane computing etc.

While some of these techniques are still in the emerging stage, the rest of them have found wide spread use in the area of Pattern recognition, Classification, Image processing, Voice recognition, Data mining etc. Each of these methodologies has their own strength. The seamless integration of these methodologies to create intelligent systems forms the core of soft computing

As a field of mathematical and computer study, soft computing has been evolved around since the 1990s. The inspiration was the human mind's ability to form real-world solutions to problems through approximation. Soft computing contrasts with possibility, an approach that is used when there is not enough information available to solve a problem. In contrast, soft computing is used where the problem is not adequately specified for the use of conventional math and computer techniques. Soft computing has numerous real-world applications in domestic, commercial and industrial situations.

Publications:

We welcome technical papers presenting research and practical result, various domain area outlined and other areas of relevance to the theme of the conference. All accepted papers will be published in the conference proceedings. Outstanding research papers after peer-review will be published in UGC referred/ Scopus Indexed Journal by taking consent and declaration from the author.

Guidelines to Authors:

Researchers should submit their papers in the following format: 6 to 8 pages of length (including illustrations) typed in single column with single line spacing and 12 points Times New Roman Font on A4 Size. The first page should include the paper title, researcher names, affiliation, postal address, phone number, email, a brief abstract, a set of keywords and text. Templates to prepare papers are available at http://gcrjy.ac.in/downloads/template_for_full_paper_SoftComp.pdf. Papers may be prepared in LaTeX or Microsoft Word and sent through email or online link http://easychair.org/conferences/?conf=ncsca2019.

Authors of accepted papers must guarantee that their papers will be presented at the conference. Best three papers will be awarded with cash prize.

Steering Committee:

Chief Patron Dr. Sujatha Sharma, IAS, Government of Andhra Pradesh

Patron Dr. R. David Kumar Swamy, Prinicipal
Advisors Dr. A.A. Annapurna, IQAC Co-ordinator
Dr. M. R. Goutham, Academic Co-ordinator

Conveners Dr. Ch. Srinivasulu, Head of the Department of Mathematics

Dr. N. Madhavi, Head of the Department of Statistics

Mr. R.V. Satyanarayana, Head of the Department of Computer Science

Organising Secretaries Mr. D. Suneel Kumar, Lecturer in Computer Science

Technical Assistant Mr. R.V. Raja Sekhar, Lecturer in Computer Science & Applications

Supporting Committee:

Smt. I. Lakshmi Gayatri
Sri. D.V.S.N. Sri Ram Murthy
Sri. Sekhar Babu
Lecturer in Mathematics
Lecturer in Computer Science
Sri D. SeethaRam
Lecturer in Computer Science

All Faculty members of Department of Mathematics, Statistics and Computer Science & Applications.