Proceedings of the Second National Conference
on Computational Intelligence
NCCI 2018

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Organized by

DEPARTMENT OF COMPUTER SCIENCE
KRISTU JAYANTI COLLEGE (AUTONOMOUS)
K.Narayanapura, Bangalore – 560077
Karnataka, India

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Message From Principal

The dawn of the computational era has piloted the entire globe into a superfast trajectory of transformation. The nonchalant ‘algorithm’ has become the cornerstone of progress in the modern world. Every sphere of human development relies on computational sciences. Remote sensing in agriculture, the revolutionary application of computer technology in bioscience and medicine, astral-space technology, multi-spatial super speed communication, knowledge explosion through cyber technology, disaster forecast and management, are a few mind-boggling contributions of computational scientists.

The millennial generation of software developers is the future visionaries of companies and nations. Man is able to withstand the vicissitudes of nature through computer and information technology. Artificial intelligence has emerged from laboratories and entered corporate think-tanks to design products to benefit the common man. Human Development Index of all countries has seen a quantum leap due to path breaking application of artificial intelligence. Computational sciences have become the scaffolding that supports the success of a nation.

The Department of Computer Science, Kristu Jayanti College, Autonomous, has been charting a pathway of innovation and resilience. There is a sustainable quest to mould dynamic individuals and build a technologically robust society. The Second National Conference on Computational Intelligence (NCCI 2018) is an endeavor to bring professionals and scholars to deliberate on the future of computational intelligence and contribute to the development of the nation. I wish the conference the very best. May this venture be a spark that ignites many new inventions in the field of computational intelligence.
Message From Vice Principal

The father of modern philosophy, Rene Descartes said “I think, therefore I am”. The existence and progress of humanity is due to the ability of people to think creatively. Every sphere of human realm requires creatively thinking people that is very much true with dynamic and rapidly changing environment of technology. The ideas that fulfill ever growing demands are derived from the hard work put in by researchers across the world. This national conference is organized to unleash a synergy of creatively thinking minds, fusion and diffusion of ideas and above all the realization of the enriching an enlightening power of knowledge.

As the Chief Patron of Second National Conference on Computational Intelligence (NCCI 2018) organized at the Kristu Jayanti College, I congratulate the Department of Computer Science for the initiatives taken to bring the researchers across the nation in a common platform. I am confident that this conference will provide a stage to present and share the research findings for further enhancement and perfection. I am delighted to note that the accepted papers are being published in the Journal of Physics: Conference Series (JPCS) – a SCOPUS indexed and UGC Approved journal.

I wholeheartedly appreciate all the sincere efforts of the entire team of NCCI 2018 and wish them a grand success.
Message From Dean

Information Technology has taken the forefront surpassing agricultural transformation and industrial revolution. It is this magnificent power of computing that is prompting the utilization of Information Technology in each segment of human activity be it communication, banking, education, amusement, administration, etc. Similar to machines that have broadened man's mechanical power and his accommodation and solace, Information Technology, is expanding the mind and scholarly power of humankind. The term Information technology has expanded to include numerous parts of processing and innovation, and the term is more conspicuous than any other time in recent memory.

The Second National Conference on Computational Intelligence (NCCI 2018) conceives to unite interdisciplinary analysts researching the interface between software engineering and the domains of bioscience. Discussions as this will be instrumental in creating novel strategies for data mining, representation and simulation. We sincerely believe this gathering will be a platform for scientific exchange of ideas and to provide an opportunity for the dissemination of the latest results in research among the range of experts in the field of Computational Intelligence.

We are glad this conference attracts your attention. Welcoming you to this conference and inviting your remarkable suggestions to make our conferences more successful and perfect.
Message From Conference Chair

Kristu Jayanti College was established in the year 2001 with the vision of excelling in education to become an internationally renowned premier institute and I can proudly say that our National conference NCCI 2018 is a strong and steady step in this direction. In a very short span of just 20 years, Kristu Jayanti College has become one of the leading colleges in the Nation due to its diligent adherence to quality in not just academics and infrastructure but also in creating the right impact on corporate sectors and national quality forums.

In this rapid technological advancements and globalization, the conference provides a platform for all the researchers to understand the problem areas in technology and provide solutions. Department of Computer Science, Kristu Jayanti College has understood the global technological requirements and created a platform of national conference for encouraging the research and development in almost all domains of Computational Intelligence.

The primary objectives of this conference are knowledge sharing, promoting research, networking among researchers and experts, industry-institute interaction, interdisciplinary learning and research, promoting upcoming technologies, understanding future trends and challenges, exploring emerging opportunities in Computational Intelligence.

I sincerely hope that One day of healthy interactions and proactive exchange of ideas will prove to be fruitful and contribute immensely to our mutual growth.

I congratulate the participants, Delegates, Organizing Committee, faculty members and students for their outstanding contribution in organizing this conference successfully.
Message From Conveners

Department of Computer Science is organizing Second National Conference on Computational Intelligence (NCCI 2018).

The major objective of this conference is to provide a common platform to academicians, research scholars and students from India to share their ideas & research experiences in various aspects of Computational Intelligence.

The conference will definitely provide a platform to discuss the problems in the area of Computational Intelligence viz. Fuzzy logic, Neural networks, Evolutionary computation, Artificial Intelligence, Network, IOT etc.

We extremely thank our management, Keynote speaker, advisory committee members, participants, reviewers, session chairs, organizing committee Members and all those who have helped us to organize this National Conference to make it a success.

We thank our publication partner IOP Science Publishing for publishing the accepted papers in the Journal of Physics: Conference Series (JPCS) – a SCOPUS indexed and UGC Approved journal.

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Dr. A. Cecil Donald
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