



ICICC

INTERNATIONAL CONFERENCE ON INNOVATIVE
COMPUTING AND COMMUNICATION



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OF DELHI, NEW DELHI IN ASSOCIATION WITH NATIONAL INSTITUTE OF
TECHNOLOGY PATNA & UNIVERSITY OF VALLADOLID SPAIN*

On
14-15 FEBRUARY 2025.

***** **CALL FOR PAPERS** *****

SPECIAL SESSION ON

Advancements and Applications of Hybrid Soft Computing Techniques for Advanced Healthcare Systems”

SESSION ORGANIZERS:

Dr. Geetanjali Sharma, Maharaja Surajmal Institute of Technology, New Delhi, India
Dr. Deepika Saxena, The University of Aizu, Japan

SESSION DESCRIPTION:

In some recent years, the integration of artificial intelligence and soft computing has seen remarkable growth in the applications and methodologies related to healthcare systems. This offers transformative potential in treatment planning, diagnostics, personalized medicine, and patient management. Hybrid soft computing has also emerged as powerful tool to implement some real-world complex problems. This combines various paradigms as neural network, genetic algorithms, fuzzy logic, IoT, and many others. One key advancement in hybrid soft computing is the development of personalized medicine, where algorithms analyze individual patient data to tailor treatment plans based on genetic, environmental, and lifestyle factors. This approach has led to more effective and targeted therapies, reducing adverse effects and improving overall patient care. Furthermore, hybrid soft computing techniques have been applied in medical imaging analysis, disease diagnosis, drug discovery, and predictive modeling. By leveraging the power of these methods, healthcare professionals can make more accurate diagnoses, predict disease progression, and optimize treatment strategies.

This special session aims to explore and highlight the latest advancements and applications in soft computing methods to address challenges in modern healthcare. It will focus on novel soft computing techniques, their enhancements and challenges in healthcare settings, including diagnostics, patient monitoring, treatment optimization, and healthcare management.

RECOMMENDED TOPICS:

Topics to be discussed in this special session include (but are not limited to) the following:

Hybrid models in medical imaging and diagnosis

Fuzzy systems in medical diagnosis

Evolutionary algorithms for treatment planning and medicines

AI based intelligent systems for predictive analytics

AI based intelligent systems for patient monitoring and management

Soft computing methods for analyzing large scale healthcare data

Enhancing robustness of soft computing models

Combining soft computing and other AI techniques to improve healthcare solution

Advance in tools or framework to support hybrid soft computing

SUBMISSION PROCEDURE:

Researchers and practitioners are invited to submit papers for this special theme session on **“Advancements and Applications of Hybrid Soft Computing Techniques for Advanced Healthcare Systems” on or before [30th November 2024]**. All submissions must be original and may not be under review by another publication. INTERESTED AUTHORS SHOULD CONSULT THE CONFERENCE’S GUIDELINES FOR MANUSCRIPT SUBMISSIONS at https://icicc-conf.com/paper_submission. All submitted papers will be reviewed on a double-blind, peer review basis.

NOTE: While submitting paper in this special session, please specify [**“Advancements and Applications of Hybrid Soft Computing Techniques for Advanced Healthcare Systems”**] at the top (above paper title) of the first page of your paper.

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