Special Session on
Hybrid Deep Learning Techniques for Health Care Applications
at
14th International Conference on Soft Computing and Pattern Recognition
(SoCPaR 2022)
on
World Wide Web
December 14-16, 2021
https://www.mirlabs.net/socpar22/

Objectives and Scope

Deep learning, the spearhead of artificial intelligence, is perhaps one of the most exciting technologies of the decade. It has already made inroads in fields such as detecting Alzheimer and heart diseases, recognizing speech, or detecting cancer, domains that were previously closed or scarcely available to traditional software models. In Artificial Intelligence, deep networks are formed by many layers in which, as in human neural networks, the signals are modified and passing successively through multiple layers of processing and transformation. Unlike Machine Learning, Deep Learning allows you to automate training processes and create your own criteria automatically, without the need for human intervention.

Deep learning is the fastest-growing field in artificial intelligence, helping computers make sense of infinite amounts of data in the form of images, sound, and text. Using multiple levels of neural networks, computers now have the capacity to see, learn, and react to complex situations as well or better than humans. This is leading to a profoundly different way of thinking about your data, your technology, and the products and services you deliver.

The field of medicine also uses Deep Learning to process all the medical information generated. For example, results of analysis, radiographs, or genomes. Also, to obtain personalized and efficient diagnoses and treatments, creating useful predictions and comparatives for the prevention of diseases.

We cordially invite researchers and scientists from deep learning technologies all around the globe to participate and submit their research work to our special session.

Subtopics

The topics include, but are not limited to:

- Artificial Intelligence models for health care applications

- Adversarial techniques for health care applications

- Generative modelling for health care applications
- Deep learning architectures and algorithms for health care applications
- Deep learning based smart medical solutions
- Machine learning techniques for novel corona virus prediction
- High performance computing for deep learning-based health care applications
- Classification and Clustering techniques for heart and Parkinson diseases
- Quantum Machine learning for health care applications
- Image processing using GAN for health care applications
- Neurocomputational models for Brain Science and Alzheimer diseases

Paper Publications
- Proceedings will be published in Lecture Notes in Networks and Systems, Springer (Indexed in SCOPUS, INSPEC, WTI Frankfurt eG, zbMATH, SCImago) https://www.springer.com/series/15179
- Papers maximum length is 10 pages
- Papers must be formatted according to Springer format (Latex/word) available at: https://www.springer.com/de/authors-editors/book-authors-editors/manuscript-preparation/5636#c3324

Important Dates
Paper submission due: September 30, 2022
Notification of paper acceptance: October 31, 2022
Registration and Final manuscript due: November 10, 2022
Conference: December 14-16, 2022

Special Session Chairs
- Kolla Bhanu Prakash, Department of Computer Science & Engineering, Koneru Lakshmaiah Education Foundation, India
- Mufti Mahmud, Nottingham Trent University, UK.
- Duc-Tan Tran, Faculty of Electrical and Electronic Engineering, Phenikaa University, Hanoi, Vietnam
- Atul Negi, School of Computer and Information Sciences, University of Hyderabad, India
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