

DEPARTMENT OF COMPUTER SCIENCE



ALAGAPPA UNIVERSITY

(A State University Established in 1985)

KARAIKUDI - 630 003, Tamil Nadu, India

www.alagappauniversity.ac.in



RTCS 2023

International Conference on
Recent Trends *in* Computer Science

PROCEEDINGS



EDITORS

Dr. S. SANTHOSHKUMAR
Organizing Secretary

Sr. Prof. T. MEYAPPAN
Convener

Prof. A. PADMAPRIYA
Co-Covenor

ALAGAPPA UNIVERSITY

(A State University accredited with A+ Grade by NAAC (CGPA: 3.64) in the 3rd Cycle,
Graded as Category - I University and Granted Autonomy by MHRD – UGC)
KARAIKUDI, TAMILNADU, INDIA

INTERNATIONAL CONFERENCE ON

RECENT TRENDS in COMPUTER SCIENCE –RTCS 2023

(Sponsored Under RUSA Phase 2.0 Scheme)

30.03.2023 & 31.03.2023



Organized by

**DEPARTMENT OF COMPUTER SCIENCE
ALAGAPPA UNIVERSITY
KARAIKUDI - 630 003**

CONTENTS

I	Message from Professor G. Ravi, Vice - Chancellor,	v
II	Message from Professor S. Rajamohan, Registrar,	vi
III	Message from Dr. S. SanthoshKumar, Assistant Professor, Organizing Secretary	vii
IV	Message from Dr. T. Meyyappan, Senior Professor and Head, Convener	viii
V	Message from Dr. A. Padmapriya Professor, Co-Convener	ix
VI	Message from Mr. G. Gopinath Sethuraman	x
VII	Acknowledgements	xi
VIII	Organizing Committee	xii
IX	Advisory Committee	xiii
X	Technical Team	xiv
XI	Research Paper Abstracts	xvii

87.	Smart Metro Train Recharge System P.Pavithra , Dr.S.Santhosh Kumar	44
88.	Iris Flower Dataset Classification and Prediction Using Machine Learning Techniques AhamedLebbeHanees, Sundar Santhoshkumar	44
89.	Computational Intelligence Of Feature Discretization Approaches of Eeg Signal Classification In Brain Computer Interface M.Jeyanthi, Dr.C.Velayutham, Dr. S.John P Oeter	45
90.	Survey on Novel Approaches for Target Detection in Remote Sensing Images Ashok kumar M, Mahesh K	45
91.	Artificial Intelligence in Sports: A Critical Assessment of The Role of AI From a Feminist Perspective Gomathi A, Veeramani P	46
92.	Deep Learning Based Model for Sensor Based Human Activity Recognition Mrs. S.Selvabharathi, Dr.K.S.Dhanalakshmi, P.Prabhu	46
93.	Artificial Neural Network M.Valarmathi.	47
94.	Human Activity Recognition Using Smartphone Accelerometer R.Ragaveni, Dr. A. Padmapriya	47
95.	Classifying Data with Suggestive Causes and Flexible Solution R. Raja, Dr. A. Padmapriya	48
96.	Grid Computing C. Sushmitha Sekar	48
97.	User Interface for Wind Turbine Generators Using Industrial Iot and Deep Learning Priyadharshini R, P. Joy Suganthy Bai, Dr E. Kirubakaran	49
98.	Fake News Detection Meenal. K, Dr. T. Meyyappan	49
99.	Artificial Intelligence R. Sneha,K. Sathya,S. Shalini	50
100.	Artificial Intelligence C.Kowsalya, M.Mohamed jassim, Mennappan	51
101.	Artificial Intelligence Sineka, Jeevitha, Elakkiya	52

Computational Intelligence Of Feature Discretization Approaches of Eeg Signal Classification In Brain Computer Interface

^[1]M.Jeyanthi, ^[2]Dr.C.Velayutham, ^[3]Dr. S.John P Oeter

¹Research Scholar, ² Research Supervisor, ³Research Joint Supervisor

²Head and Associate Professor, ³Associate Professor and Head of Research Centre

¹Department of Computer Applications, ^{2,3}Department of Computer Science

^{1,3} St.Xavier's College (Autonomous), Palayamkottai and Affiliated to Manonmaniam Sundaranar University,
Tirunelveli, Tamil Nadu, India.

²Aditanar College of Arts & Science Tiruchendur, Affiliated to Manonmaniam Sundaranar University,
Tirunelveli, Tamil Nadu, India.

E-mail: ¹jeyanthieral88@gmail.com , ²cvsir22@gmail.com , ³jaypeeyes@rediffmail.com

Abstract:

Human Computer Interaction is unavoidable for multiple domains. In brain Signal processing multiple features are collide each others. In feature extraction and selection, various processing methods are common now, but not perform better. So, before processing the preprocessing mechanism is unavoidable. In this paper, We propose classification techniques using integrated discretization approaches such as Binning, Kmeans, Histogram. Above Classification EEG Signals are very accurate and time consuming process. The above discussion methods are more compare to the existing other classification approaches.

Keywords: Brain Computer Interface, EEG, Discretization, Classification

Survey on Novel Approaches for Target Detection in Remote Sensing Images

Ashok kumar M^{1*}, Mahesh K²

¹Assistant Professor,

Department of Computer Science and Information Technology,
The Madura College(Affiliated to Madurai KamarajUniversity),Madurai.

[e-mail: ashokkumarm.sf@maduracollege.edu.in]

²Professor, Department of Computer Applications, AlagappaUniversity
Karaikudi, Tamilnadu, India

[e-mail : mahesh.alagappa@gmail.com]

Abstract:

In remote sensing-based computer vision applications, including precision farming, urban planning, and military applications, target detection is a significant stage. Target detection in remote sensing is a particularly challenging operation because of several factors, such as the poor pixel resolution of the targets and the identification of small targets in large-scale satellite images. There are various obstacles to target recognition in satellite images, including class fluctuations, many objects in movement, a wide range of object sizes, luminance, and complex background. For many computer vision applications including the processing of remote sensing images, machine learning, especially deep learning (DL), has taken center stage. This study analyses the performance of various DL algorithms currently in use for target recognition in remote sensing. We explain how DL shows progress and can process operations using image data derived from remote sensing. An overview of the researched Attention Mechanisms (AM) and how to incorporate them with various deep learning neural network topologies are also provided in this paper. Additionally, it attempts to look into how the AM affects remote sensing image processing that is based on deep learning. Our thorough investigation and meta-analysis demonstrate that deep learning not only achieves more accuracy than conventional techniques but also solves several previously unsolved problems. Finally, we project future directions, spotting notable DL paths to be explored in the remote sensing field.

Keywords: Target detection, remote sensing, deep learning (DL), image processing