

Advances in
ENGINEERING
and
SCIENCES

Volume - 1

Chief Editor

Prof. K. Viswak Sena Reddy

Vice-Principal, Narayana Engineering College, Gudur,
Andhra Pradesh, India

Co-Editor

Dr. Rajesh Reddy. Duvvuru

Assistant Professor, Department of EEE, Narayana Engineering College,
Gudur, Andhra Pradesh, India

Integrated Publications
New Delhi

Published By: Integrated Publications

Integrated Publications

H. No. - 3 Pocket - H34, Sector - 3,

Rohini, Delhi-110085, India

Chief Editor: Prof. K. Viswak Sena Reddy

Co-Editor: Dr. Rajesh Reddy. Duvvuru

The author/publisher has attempted to trace and acknowledge the materials reproduced in this publication and apologize if permission and acknowledgements to publish in this form have not been given. If any material has not been acknowledged please write and let us know so that we may rectify it.

© **Integrated Publications**

Publication Year: 2022

Pages: 53

ISBN: 978-93-93502-34-6

Book DOI: <https://doi.org/10.22271/int.book.134>

Price: ₹ 595/-

Contents

S. No.	Chapters	Page No.
1.	Deregulated Power System Management using Custom Power Devices <i>(P. Marimuthu, V. Moorthy and Kalyan Sagar Kadali)</i>	01-10
2.	Application of Genetic Algorithm in Short Term Hydrothermal Scheduling for Cost and Emission <i>(M Laxmidevi Ramanaiah, Raja Reddy.Duvvuru and M.V.S. Sudheer Babu)</i>	11-19
3.	Optimal Design of Power System Stabilizers with Artificial Intelligence Techniques <i>(P. Marimuthu, V. Moorthy and Kalyan Sagar Kadali)</i>	21-32
4.	ATC Estimation in Deregulated Power Systems using Different Indices <i>(K. Vimala Kumar, B. Sudharshan Reddy, and A. Hazarthaiah)</i>	33-42
5.	Multi-Omics Data Analysis using Machine Learning for Cancer Prediction and Diagnosis <i>(Raghavender KV, J Kavitha and K Ramakrishna Reddy)</i>	43-53

Chapter - 1
Deregulated Power System Management using
Custom Power Devices

Authors

P. Marimuthu

Professor, Department of EEE, Malla Reddy Engineering
College, Hyderabad, Telangana, India

V. Moorthy

Professor, EEE Department, KKR & KSR Institute of
Technology and Sciences, Guntur, Andhra Pradesh, India

Kalyan Sagar Kadali

Assistant Professor, EEE Department, Shri Vishnu Engineering
College for Women, Bhimavaram, Andhra Pradesh, India