



NEW HORIZON COLLEGE OF ENGINEERING

Library and Information Center

BOOK CHAPTERS PUBLISHED BY FACULTY MEMBERS

Sl. No	Chapter Title	Author/s	Author Details		Year of Publication	Dept	Publisher
1	<u>A Healthcare Revolution in cross domain applications using advanced computational techniques</u>	Mr. Ajay Sudhir Bale			2024	ECE	Nova Science Publishers, Inc.
2	<u>Augmented reality in cross – domain application</u>	Mr. Ajay Sudhir Bale			2023	ECE	Boston : De Gruyter,

3	<u>Autonomous Aerial Robots application for Crop Survey and Mapping</u> Chapter No. 7	Mr. Ajay Sudhir Bale	 Mr. Ajay Sudhir Bale Assistant Professor		2024	ECE	CRC Press
4	<u>Bi-directional DC-DC Converters and Energy storage systems of DVR – An Analysis</u>	Mrs. Anitha A Dr. Nisha K C R	 Mrs. Anitha A Sr. Assistant Professor	 Dr. Nisha K C R Professor	10.03.2023	EEE	Springer Nature
5	<u>Organ procurement and transplantation network using IoT and Blockchain</u>	Dr. V. Asha	 Dr.V. Asha Professor & HOD		2023	MCA	CRC Press

6	Introduction to AI Technique and Analysis of Time Series Data Using Facebook Prophet Model Chapter. 9	Dr. S. Sivaramakrishnan	 Dr. S. Sivaramakrishnan Associate Professor		2023	ISE	Scrivener Publishing ILC
7	Eye – Based Cursor Control and Eye Coding Using Hog Algorithms and Neurak Network Chapter. 11	Dr. S. Sivaramakrishnan	 Dr. S. Sivaramakrishnan Associate Professor		2023	ISE	Scrivener Publishing ILC
8	Advances in Transdisciplinary Engineering series Volume - 32 Conference Proceedings	Mrs. Pramilarani K	 Mrs. Pramilarani K Sr. Assistant Professor		12.01.2023	CSE	IOS Press

9	Using Map reduce and time series analysis of defend against DDoS Attacks Conference Proceedings	Mrs. Pramilarani K	 Mrs. Pramilarani K Sr. Assistant Professor		12.01.2023	CSE	IOS Press
10	Advances in Transdisciplinary Engineering series Volume - 32 Recent development in Electronics & communication systems Conference Proceedings	Ms. Suganya R	 Ms. Suganya R Sr. Assistant Professor		12.01.2023	CSE	IOS Press
11	Smart weed Detection: An Real – Time Weed Detection for Onion Plantation Conference Proceedings	Ms. Suganya R	 Ms. Suganya R Sr. Assistant Professor		2023	CSE	IOS Press

12	<u>Deep Learning for Emotion Recognition</u> Handbook of Research on Computer vision & image processing in the Deep Learning Era Chapter - 5	Dr. T Kavitha	 Dr. T. Kavitha Professor		2022	CE	Business Science Reference
13	<u>Network Intrusion Detection System in Latest DFA Compression Methods for Deep Packet Scruting</u> Design, Applications & Maintenance of cyber physicl systems Chapter No. 10	Dr. Vinoth Kumar K	 Dr. Vinoth Kumar K Associate Professor		2021	EEE	IGI Global
14	<u>Implementation of Savonius Blad Wind Tree Structure by Super Lift Luo Converter for Smart Grid Applications and Benefits to Smart City</u> Smart Grids for Smart cities Chapter No. 8	Dr. Vinoth Kumar K	 Dr. Vinoth Kumar K Associate Professor		05.07.2023	EEE	Scrivener Publishing Wiley

15	<u>Fog Computing – Based Framework and Solutions for Intelligent systems: Enabling Autonomy in Vehicles</u> Chapter No. 17	Dr. M Dhanalakshmi	 Dr. M Dhanalakshmi Professor		2024	CSE	IGI Global
16	<u>Machine Learning – Integrated sustainable engineering and energy systems: Innovations at the Nexus</u> Chapter No. 4	Dr. M Dhanalakshmi	 Dr. M Dhanalakshmi Professor		2024	CSE	IGI Global
17	Advanced computing & Intelligent technologies <u>Feature Selection Using Chi-Squared Feature-Class Association Model for Fake Profile Detection in Online Social Networks</u> Chapter	Dr.B. Meenakshi Sundaram	 Dr.B. Meenakshi Sundaram Associate Professor		20224	CSE	Springer Nature

18	The Impact of Big Data in Smart Cities:Current Research concepts and Future Perspectives Chapter No. 10	Mrs. Rajashree	 Rajashree Sr. Assistant Professor		2024	AIML	Nova Science Publisher
19	Accomplishing Low Power Consumption with TFET Chapter No. 31	Dr. Sreejith S	 Dr. Sreejith S Associate Professor		2024	AIML	Springer Nature
20	Advanced in Academic research and Development Load Frequency Control of Two Area Interconnected Power System Chapter	Dr. V Agalya	 Dr. V Agalya Associate Head R & D		2024	EEE	Integrated Publicationa

21	Role of Nanofluid in Heat Exchanger A Comprehensive Review Chapter No. 3	Dr. Gopal K	 Dr. Gopal K Associate Professor		2024	ME	
22	NMRA-Facilitated Optimized Deep Learning Framework: A Case Study on IoT-Enabled Waste Management in Smart Cities Chapter No. 10	Rakesh C	 Rakesh C Sr. Associate Professor & HOD Incharge		2024	ME	IGI Goblal
23	Detection of Pepper Plant leaf disease detection using Tom and Jerry Algorithm with MSTNet Chapter No. 8	Rakesh C	 Rakesh C Sr. Associate Professor & HOD Incharge		2024	ME	IGI Goblal

24	Utilization of Various Graphene-FET Sensors and Their Recent Developments Chapter No. 23	Dr. N V Uma Reddy	 Dr. N V Uma Reddy Professor & HOD		2024	AIML	Springer Nature
25	Operation and control of EV infrastructure for Microgrid Chapter No. 13	Dr. Gunapriya B	 Dr. Gunapriya B Associat Professor		2024	EEE	Scrivener Publishing LLC
26	Fall Support Assistant Application	Dr. Sivaramakrishna S	 Dr. Sivaramakrishna S Associat Professor		2024	ISE	Springer Nature

27	The Role and Impact of Federal Learning in Digiatal Healthcare : A useful Survey Chapter No - 7	Rajasree R S	 Rajasree R S Sr. Assistant Professor		2022	AIML	IGI Global
28	Privacy- Preserving scheme for internet of things Chapter No - 10	Dr. Rose Kavitha	 Dr. Rose Kavitha Professor		2024	MBA	CRC Press
29	Comparative study of Solar and Geothermal Renewable Energy Resouces for Desalination of Seawater with Latest case studies	Mr. Sujeeth Swami	 Mr. Sujeeth Swami Professor		2023	ME	Springer

30	Utilization of Various Graphene- FET Sensors and Their Recent Developments Chapter No. 23	Dr. Sreejith S	 Dr. Sreejith S Associate Professor		2024	AIML	Springer Nature
31	An Introduction to Forensic Electrochemistry Chapter - I	Dr. Ramachandra Naik	 Dr. Ramachandra Naik Sr. Assistant Professor		2024	Applied Science Physics	American Chemical Society
32	Advanced Sensing Systems in Automobiles: Computational Intelligence Approach Chapter -14	Ms. Mamta B. Savadatti Mr. Ajay Sudhir Bale	 Ms. Mamta B Savadatti Sr. Assistant Professor	 Mr. Ajay Sudhir Bale Assistant Professor	2024	ECE	Scrivener Publishing LLC

33	<u>Journey of Hyperautomation: the Pathway of today's Industries to next Generation Industries</u> Chapter - 1	Dr. T Kavitha	 Dr. T Kavitha Professor		2024	CE	Scrivener Publishing LLC
34	<u>Computational Intelligence and Blockchain in Diversified Applications</u>	Supriya B Rao	 Supriya B Rao Assistant Professor		2024	AIML	CRC Press
35	<u>Design and Optimization of Antennas with Improved ON-OFF Body Performance for Biomedical Applications</u> Chapter No-08	Dr. Gurulakshmi A B	 Dr. Gurulakshmi A B Associate Professor		2024	ECE	Scrivener Publication LLC

36	<u>Machine learning / deep learning use cases in education</u> Chapter No-05	N. S. Sukanya,	 Sukanya N S Sr. Asst Professor		2024	MCA	CRC Press
37	<u>Hybrid Approaches: Combining Deep Reinforcement learning with other techniques</u> Chapter No-13	M T Vasumathi	 Dr. M T Vasumathi Associate Professor		2024	MCA	Scrivener Publishing LLC
38	<u>Artificial intelligence for smart manufacturing using digital twin technology</u> Chapter No-07	M T Vasumathi	 Dr. M T Vasumathi Associate Professor		2024	MCA	CRC Press

39	FT-IR, UR, NMR, Spectral Examinations report of 2- (2,4- Difluorophenyl) – 1, 3- Bis-	Dr. Rohini B	 Dr. Rohini B Sr. Assistant Professor				
40	Racing against the machine: Data protection in the 6G era Chapter No - 12	Mr. Ajay Sudhir Bale	 Mr. Ajay Sudhir Bale Assistant Professor		2024	ECE	CRC Press
41	Advances in Space Radiation Detection: Novel Nanomaterials and Techniques	Dr. Ramachandra Naik H. P. Nagaswarupa B. H. M. Daruksha D. M. Tejashwini	 Dr. Ramachandra Naik Sr. Assistant Professor		2024	Applied Science	Springer

42	Cloud computing in smart energy meter management <u>Fundamentals of Smart Meter</u> Chapter No. 1	Dr. T Kavitha	 Dr. T. Kavitha Professor		2025	CSE	Wiley Publication
43	<u>Malicious Anomaly Detection and Prediction Using Prophet Luminol and RNN</u> Utilizing AI in Network and Mobile Security for threat Detection and Prevention Chapter - 5	Ms. Suganya R	 M. Suganya R Associate Professor		2025	Data Science	IGI Global Scientific Publishing
44	<u>Inflow and Infiltration water problem detection Using Machine Learning</u>	Dr. D Roja Ramani	 Dr. D Roja Ramani Associate Professor		2025	CSE	Springer Nature

45	<u>Remote monitoring advancements: A new approach to Biodiversity Conservation</u> Chapter - 4	Dr. D Roja Ramani	 Dr. D Roja Ramani Associate Professor		2025	CSE	Springer Nature
46	<u>Deep bidirectional LSTM for Emotion Detection through Mobile Sensor Analysis</u> Chapter - 10	Dr. D Roja Ramani	 Dr. D Roja Ramani Associate Professor		2025	CSE	Springer Nature
47	<u>Optimizing Almond and Walnut Farming: A U –Net-Powered Deep Learning Approach for Energy Efficiency Prediction and Damage Assessment</u> Chapter - 13	Dr. D Roja Ramani	 Dr. D Roja Ramani Associate Professor		2025	CSE	Springer Nature

48	<u>Smart Environmental Monitoring Systems: IoT and Sensor-Based Advancements</u> Chapter - 3	Dr. D Roja Ramani	 Dr. D Roja Ramani Associate Professor		2025	CSE	Springer Nature
49	<u>Cryptography and Blockchain: Building blocks of Secure Decentralisation</u> Chapter – 9	Ms. Shashikala K S	 Ms. Shashikala K. S Sr. Assistant Professor		2025	AIML	
50	<u>Ultrafine Grain Refinement and Improved Mechanical strength of Compositionally Modified AZ 61 Alloy Composite</u> Chapter – 9	Dr. Piyush Kumar Soni	 Dr. Piyush Kumar Soni Professor & Associate Head-Consultancy		2025	ME	IGI Global Scientific

51	<u>G A Optimization for Performance and Emission</u> <u>Characteristics of SI Engine via Ethanol Gasoline Blend</u> Chapter – 13	Dr. Piyush Kumar Soni	 Dr. Piyush Kumar Soni Professor & Associate Head-Consultancy		2025	ME	IGI Global Scientific
52	<u>Overview of Current AI Technologies in Education</u> Chapter – 01	Mr. Rajat B Hubballi	 Mr. Rajat B Hubballi Assistant Professor		2025	MBA	IGI Globle Scientific Publishing

53	A study on AI tools that Can Generate software source code Chapter - 05	Dr C R Rathish	 Dr. C. R. Rathish Associate Professor		2025	CSE –II	IGI Global Scientific Publishing
54	Harnessing AI for Scalable and Adptive Cloud – Native Applications Chapter - 11	Dr C R Rathish	 Dr. C. R. Rathish Associate Professor		2025	CSE –II	IGI Global Scientific Publishing
55	Handbook of Carbon Sensors: Understanding and Applications Carbon sensing platforms for the detection of heavy metals Chapter No - 3	Dr. Ramachandra Naik	 Dr. Ramachandra Naik Sr. Assistant Professor		2025	AS	CRC Press

56	<u>5G Speeds for Metaverse healthcare Promises and Challengers</u> Chapter No – 16 Innovation and Accountability: An Ethical perspective on Metaverse healthcare	Ms. Mamta B.	 Ms. Mamta B Savadatti Sr. Assistant Professor		2025	ECE	Scrivener Publishing LLC
57	<u>Innovation and Accountability, in Metaverse Technologies, Security and Applications for Healthcare</u> Chapter No - 3	Mr. Ajay Sudhir Bale	 Mr. Ajay Sudhir Bale Assistant Professor		2025	ECE	Scrivener Publishing LLC
58	<u>AI - Based Symptom Diagnosis with Integrated HER (Electronic Health Records) using Wearable Health Devices and IoT</u> Chapter No - 31	Ms. Kavitha C Reddy	 Ms. Kavitha C Reddy Sr. Assistant Professor		2025	EEE	Taylor & Francis Groups

59	BinancePy: Python Powered Crypto Training Chapter No - 14	Dr. T Kavitha	 Dr. T. Kavitha Professor		2025	CSE	IGI Globel Scientific Publishing
60	Study the Effect of Fenugreek Biodiesel and Its Blend on Performance and Emission characteristics of Diesel Engine	Mr. T A Sudarshan	 Mr. T A Sudarshan Sr. Assistant Professor		2025	ME	Springer Nature