PUBLICATION OF BOOK CHAPTERS

S.No	Author's Name	Title of the Book	Title of the Book Chapter	Name of Publisher	Year of Publication
1.	P. V. Yeswanth & S. Deivalakshmi	Operations Research and Data Analytics: Current Trends and Future Perspectives:	Twenty-Fold Protracted Residual Network (TFPRN) for Rice Grain Type Detection	Springer	2026
2.	Yeswanth, P.V., Hareesh, S., Thanya, Y., Lokesh Kumar, K.M., Gopal Morampudi, B.K.V., Deivalakshmi, S.	Applications of Computational Intelligence in Management and Mathematics I	A Graphical Neural Network (GNN) Model for Super-Resolution Images to Detect Alzheimer's Disease	Springer	2025
3.	K.M.N.V. Srikanth, Chegrik Cherian B. Marak, Kunal Vijay Thool, S. Deivalakshmi	(Chapter 5), Lect. Notes in Networks, Syst., Vol. 971, Rajesh Kumar et al. (Eds): Soft Computing: Theories and Applications	Image Super Resolution Using Extensive Residual Network (ERN) for Orange Fruit Disease Detection	Springer	2024
4.	Yeswanth, P.V., Thool, K.V., Deivalakshmi, S.	Big Data and Artificial Intelligence. BDA 2023. Lecture Notes in Computer Science, vol 14418.	Tuberculosis Disease Diagnosis Using Controlled Super Resolution. In: Goyal, V., Kumar, N., Bhowmick, S.S., Goyal, P., Goyal, N., Kumar, D. (eds) Big Data and Artificial Intelligence. BDA 2023.	Springer	2023
5.	Yeswanth, P.V., Khandelwal, R., Deivalakshmi, S.	Lecture Notes in Electrical Engineering	Four-Fold Prolonged Residual Network (FFPRN) Based Super Resolution for Cherry Plant Leaf Disease Detection. In: Sharma, S., Subudhi, B., Sahu, U.K. (eds) Intelligent Control, Robotics, and Industrial Automation.	Springer	2023
6.	S. Deivalakshmi, Sudaroli Sandana J	Algorithms for Intelligent	Deep Sea Debris Detection Using	Springer	2023

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7.	Pujari Venkata Yeswanth, Rachit Khandelwal, S. Deivalakshmi	Internet of Things (IoT): Key Digital Trends Shaping the Future	Two-Fold Extended Residual Network Based Super Resolution for Potato Plant Leaf Disease Detection	Springer	2023
8.	S. Deivalakshmi, Sudaroli Sandana J	Communications in Computer and Information Science	Single Image Dehazing Using Multipath Networks Based on Chain of U-Nets	Springer	2023
9.	S. Deivalakshmi, Sudaroli Sandana J	Communications in Computer and Information Science	Deep Dilated Convolutional Network for Single Image Dehazing	Springer	2023
10.	S. Deivalakshmi, Sudaroli Sandana J	Communications in Computer and Information Science	A Compact-Structured Convolutional Neural Network for Single Image Denoising and Super-Resolution	Springer	2023
11.	Hao Zhang, Deivalakshmi Subbian, G. Lakshminarayanan & Seok-Bum Ko	Artificial Intelligence and Hardware Accelerators	Application-Specific and Reconfigurable AI Accelerator	Springer	2023
12.	S. Deivalakshmi and R. Adarsh and J. Sudaroli Sandana and Gadipudi Amarnageswarao	Computational Methods and Deep Learning for Ophthalmology	U-Net Auto Encoder Architectures for Retinal Blood Vessels Segmentation	Elsevier	2023
13.	Ravindranath Kadirappa, Gadipudi Amaranageswarao & S. Deivalakshmi	Distributed Computing and Optimization Techniques	Convolutional Neural Network Models for Throat Cancer Classification Using Histopathological Images	Springer	2022
14.	Hao Zhang, Mohammadreza Asadikouhanjani, Jie Han, Deivalakshmi Subbian & Seok-Bum Ko	Approximate Computing	Approximate Computing for Efficient Neural Network Computation: A Survey	Springer	2022
15.	Monika, R., Deivalakshmi, S	Lecture Notes in Electrical Engineering	Deep Neural Networks on Acoustic Emission in Stress Corrosion	Springer	2022

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16.	Nandhini S., Suganya R., Nandhana K., Varsha S., Deivalakshmi S	Machine Learning for Predictive Analysis	Automatic Detection of Leaf Disease Using CNN Algorithm	Springer	2021
17.	M. Anand, A. Ashwin Natraj, V. Jeya Maria Jose, K. Subramanian, Priyanka Bhardwaj, R. Pandeeswari & S. Deivalakshmi	Machine Learning, Deep Learning and Computational Intelligence for Wireless Communication	Tackling Multiple Visual Artifacts: Blind Image Restoration Using Conditional Adversarial Networks	Springer	2021
18.	P. Purushothaman, S. Srihari & S. Deivalakshmi	Computer Vision and Image Processing	High-Level Synthesis of Cellular Automata–Belousov Zhabotinsky Reaction in FPGA. In: Gopi E.S. (eds) Machine Learning	Springer	2019