

Contents

List of Authors — VII

R. Regan, Anto Merline Manoharan, R. Gayathri, K. Kandasamy
The Learning of Deep Learning: Overview, Methods, and Applications — 1

R. Remya, M.G. Sumithra, M. Krishnamoorthi
Foundation of Cognitive Computing — 19

R. Ranjana, Subha T, Varsha, Jothishree, Pravin Kumar
Applications and Implications of Artificial Intelligence and Deep Learning in Computer Vision — 35

R. Regan, P. Rajaram, K. Senthilkumar, N. Khadirkumar
A Study of Voice Recognition System Using Deep Learning Techniques — 53

Oleeviya Babu P, Sobin C.C, Jahfar Ali
Building Machine Learning–Based Prediction System for Critical Diseases — 75

Shahab Nadeem Hashmi, Nitesh Bharti, V.M. Manikandan
An Overview of Internet of Things and Machine Learning for Smart Healthcare — 97

Reethika A, Jagadesh T, M S Kanivarshini
Nutrition Food Recognition Using Deep Learning Algorithm for Physically Challenged Human Being — 113

K. Renuka Devi, S. Suganyadevi, K. Balasamy
Healthcare Data Analysis Using Deep Learning Paradigm — 129

R. Babu, Prithi Samuel, K. Jayashree
Cognitive Authentication for Smart Healthcare System — 149

B. Lakshmanan, S. Priyadharsini, G. Priyanka
Cognitive-Inspired Computer Vision Assist System for Diabetic Retinopathy Detection from Fundus Images — 165

Dineshnath G, S. Saraswathi

**A Novel Deep Belief Neural Network Model for Abstractive Text
Summarization — 179**

Index — 201