

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
BOOK CHAPTER PUBLICATIONS (2023-2024)**

S. No	Title of the Chapter	Name of the Authors & Affiliation as per the order in papers	Title of the Book & Publisher	Page No. Month and Year of Publication
1	Multivariate Cryptosystem Based on a Quadratic Equation to Eliminate the Outliers Using Homomorphic Encryption Scheme	M.Janani CSE Department KPR Institute of Engineering and Technology Jeevitha.R Jaikumar.R Suganthi.R Jhansi Ida.S	Homomorphic Encryption for Financial Cryptography Springer	Pg.No - 277 to 302 and August 2023
2	Futuristic Adoption of Blockchain Technology in the Smart Agriculture and Food Industry: Basic Concepts, Structure, Characteristics, Applicabilities	S.K.Geetha CSE Department KPR Institute of Engineering and Technology Rajasekaran Thangaraj, J. K. Kiruthika, A. Devipriya, M. Naveenkumar"	Contemporary Developments in Agricultural Cyber-Physical Systems IGI Global Publisher	(pages 122-148), August, 2023
3	Advancements in Machine Learning Techniques for Optimizing Cognitive Radio Networks: A Comprehensive Review	Niranjani V CSE Department Sri Eshwar College of Engineering Premkumar Duraisamy , Department of Computer Science and Engineering, KPR Institute of Engineering and Technology. M. Priyadharshan, Department of Computer Science and Engineering, Hindusthan College of Engineering and Technology. B. Gayathri, Department of Computer Science and Engineering, MountZion College of Engineering and Technology.	Advances in Computational Intelligence in Materials Science AnaPub Publications, Kenya.	130-135 & 07 June 2023
4	Cyber-Physical Systems in Agriculture: Applications, Challenges, and Future Perspectives	C.Sasikala CSE Department KPR Institute of Engineering and Technology L. Dharani Chemical Department KPR Institute of Engineering and Technology	Contemporary Developments in Agricultural Cyber-Physical Systems IGI Global Publisher	23 - 40& 07 June 2023

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
BOOK CHAPTER PUBLICATIONS (2023-2024)**

5	Industrial Internet of Things and Industry 4.0: A learner's perspectives toward quantum technologies	Nisha Soms CSE Department KPR Institute of Engineering and Technology Kalyani, S., SRIT; Nagarani, S, SRIT; Rohini, M, SKCET; Oswalt, M.S, SKCET	Quantum Computing and Artificial Intelligence: Training Machine and Deep Learning Algorithms on Quantum Computers De Gruyter	pp. 243-270.
6	IoT Enabled Smart Transportation System	Premkumar D CSE Department KPR Institute of Engineering and Technology Yuvaraj N, KPRIET; Kathiresan K, KPRIET; Niranjini V, SECE	Blockchain Enabled Secure Big Data Computing for Smart Cities Using Internet of Things Nova Science Publishers	January 2024
7	Internet of Things for Smart Cities: Overview and Challenges	A Suganya, IT, Karpagam College of Engineering, Coimbatore S Manoj Kumar , CSE, KPR Institute of Engineering and Technology, Coimbatore	Blockchain Enabled Secure Big Data Computing for Smart Cities Using Internet of Things Nova Science Publishers	January 2024
8	IoT Devices in Healthcare	A Suganya, IT, Karpagam College of Engineering, Coimbatore S Manoj Kumar , CSE, KPR Institute of Engineering and Technology, Coimbatore	Technological Tools for Predicting Pregnancy Complications IGI Global Publisher	Page 1-17, October 2023
9	Applications of quantum AI for healthcare	K. Sasi Kala Rani, SKCET, Coimbatore Priyadharsheni J M, SKCET, Coimbatore. B. Karthikeyan , KPRIET, Coimbatore. G. S. Pugalendhi, SKCET, Coimbatore	Quantum Computing and Artificial Intelligence: Training Machine and Deep Learning Algorithms on Quantum Computers De Gruyter	Page 271-276
10	Deep learning system based naturalistic communication in brain-computer interface for quadriplegic patient	Dr.N.Yuvaraj , CSE Department KPR Institute of Engineering and Technology K. Mouthami, Gitanjali Wadhwa, CSE, KPR Institute of Engineering and Technology, Coimbatore	Computational Intelligence and Deep Learning Methods for Neuro-rehabilitation Applications ELSEVIER	November 1, 2023

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
BOOK CHAPTER PUBLICATIONS (2023-2024)**

11	Dynamic Detection of Malwares Using Deep Learning Techniques	M. Nivaashini, AP/CSE, Sri Ramakrishnan College of Engineering R. S. Soundariya, AP/CT Bannari Amman Institute of Technology B. Vishnupriya , AP/CSE, KPR Institute of Engineering of Technology R. M. Tharsanee, AP/CSE Bannari Amman Institute of Technology	Wireless Communication for Cybersecurity WILEY ONLINE LIBRARY	27 October 2023
12	Implementation of a Distributed Electronic Voting System Using a Blockchain-Based Framework	Nisha Soms CSE Department KPR Institute of Engineering and Technology Lawrance, J., Harshitha, R., Dakshineshwar, D.S., Sri Ramakrishna Institute of Technology, Coimbatore	Integrating Blockchain and Artificial Intelligence for Industry 4.0 Innovations. EAI/Springer	4 October 2023
13	Blockchain-Based Decentralized Student Verification Platform	Nisha Soms CSE Department KPR Institute of Engineering and Technology Adhithyan, S., Lokesh, M.S., Madhumitha, K., Sri Ramakrishna Institute of Technology, Coimbatore	Integrating Blockchain and Artificial Intelligence for Industry 4.0 Innovations. EAI/Springer	4 October 2023
14	Deep learning method for adult patients with neurological disorders under remote monitoring	K Kathiresan , CSE Department KPR Institute of Engineering and Technology T. Preethi, N. Yuvaraj, S. Karthic, K.R. Sri Preethaa, CSE, KPR Institute of Engineering and Technology, Coimbatore	Computational Intelligence and Deep Learning Methods for Neuro-rehabilitation Applications ELSEVIER	14 November 2023
15	Ergonomic Prevention Method Based on the UX Index to Assess Industrialized Tasks From a Human-Centered Standpoint	Hemawathi M. S. Sivaramakrishnan R. , Dhanasekaran P., Pavithra R., Illavarasi S.	Human-Centered Approaches in Industry 5.0: Human-Machine Interaction, Virtual Reality Training, and Customer Sentiment Analysis IGI Global Publisher	1 November 2023
16	Defect Exposure in Vegetables and Fruits using Machine Learning Algorithms	P.Chinnasamy K.B.Sri Sathya Rameshkumar Ayyasamy V. Praveena Arulananth TS	Engineering, Science and Sustainability : Advancements in Technology and Techniques, CRC Press, Taylor & Francis Group	28 September 2023
17	Edge-Cloud Collaborative Inference Expending Federated Learning in Task Migration	Vishnu Kumar Kaliappan , Sakthivel Velusamy, P Dhanasekaran, S Gnanamurthy, S Illavarasi	Pioneering Smart Healthcare 5.0 with IoT, Federated Learning, and Cloud Security	

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
BOOK CHAPTER PUBLICATIONS (2023-2024)**

18	Safety for Digital Immersive Environments and Social Economic Dynamics Based on Designing the Metaverse	S Vinoth Kumar, Vishnu Kumar Kaliappan , A Suresh, B Suresh Kumar, SV Manikanthan	Human-Centered Approaches in Industry 5.0: Human-Machine Interaction, Virtual Reality Training, and Customer Sentiment Analysis IGI Global Publisher	
19	From Remote Monitoring to Personalized Care: A Review of IoT-Based Patient Engagement Solutions in Healthcare	SJ Suji Prasad, R Manjula Devi , P Keerthika, P Suresh, A Rex Macedo Arokiaraj, M Sangeetha	Convergence of Blockchain and Internet of Things in Healthcare, CRC Press	March 2024
20	CardioSegNet meets XAI: A Breakthrough in Left Ventricle Delineation within Cardiac Diagnostics	Abhinaya Saravanan, S. David Samuel Azariya, Nisha Soms	Explainable AI (XAI) for Sustainable Development	2024


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