

Prof. Dharmender Singh Kushwaha

Books

- Data Structures: A Programming Approach with C – Dharmender Singh Kushwaha, Arun Kumar Misra, PHI, 2012
- Data Structures: A Programming Approach with C, Second Edition – Dharmender Singh Kushwaha, Arun Kumar Misra, PHI, 2014

Patents

Sr. No.	Authors	Title	Date of Filing	Application No.	Field of Innovation	Published / Granted
1.	Dr. Biru Rajak, Dr. Dushyant Kumar Singh & Prof. Dharmender Singh Kushwaha	A Dynamic Emergency Vehicle Clearance System	26.04.2022	202211024605	COMPUTER SCIENCE	Patent No.: 521324 Granted on: 07.03.2024 Published 23.12.2022
2	Dr. Amrendra Singh Yadav, Prof. Dharmender Singh Kushwaha & Others	Smart AI based Indoor Air Purification device	20.07.2022	368067-001	COMPUTER SCIENCE	Granted Date of Issue: 18.04.2023
3.	Dr. Amrendra Singh Yadav, Prof. Dharmender Singh Kushwaha & Others	AI based Smart Glasses for Identifying Skin Disease	17.08.2022	369319-001	COMPUTER SCIENCE	Granted on: 04.01.2023 Design No. 369319-001

Journal Papers (Indexed in SCIE/ESCI/Scopus/Others)

S.No.	Journal Paper	Name of Journal	Impact Factor
80.	Gupta, Anuska, and Dharmender Singh Kushwaha. "Multiclass Skin Lesion Classification Using EDS-Net with Optimized Weights." <i>Procedia Computer Science</i> 283 (2026): 3275-3284.	Procedia Computer Science	3.9
79.	OrthoHueHashChain: Distortion-Aware Hybrid Video Similarity With On-Chain Provenance, S Pandey, AP Singh, A Pandey, DS Kushwaha, <i>IEEE Access</i> 13, 198373-198389, 2025	IEEE Access (SCIE)	3.6
78.	HashWave: blockchain-powered perceptual hashing for resilient audio piracy detection against signal-processing attacks in decentralized networks, S Pandey, AP Singh, DS Kushwaha, A Pandey, <i>Scientific Reports</i> 15(1), 40320, 2025	Scientific Reports (Nature Portfolio) (SCIE)	3.9
77.	A Novel Approach To Analyse Infectivity Of Pre-Symptomatic Sars-Cov-2 Carriers Against Testing Delays, S Mallick, B Rajak, AK Verma, DS Kushwaha, <i>International Journal of Computer Science and Network Security</i> 25(1), 81-86, 2025	International Journal of Computer Science and Network Security (IJCSNS)	2.487
76.	CovMedCare: confluence of internet of things, blockchain and machine learning for remote monitoring system of pandemic patients, C Krishna, D Kumar, DS Kushwaha, <i>The Journal of Supercomputing</i> 81(1), 332, 2024	The Journal of Supercomputing (SCIE)	2.7
75.	MedBlockSure: Blockchain-based insurance system, C Krishna, D Kumar, DS Kushwaha, <i>Cognitive Computation and Systems</i> 6(4), 98-107, 2024	Cognitive Computation and Systems (ESCI)	1.3
74.	A survey on blockchain architecture and consensus mechanism: design vulnerability and security analysis, S Sharma, DS Kushwaha, <i>International Journal of Cloud Computing</i> 13(5), 485-547, 2024	International Journal of Cloud Computing (Scopus)	1.9
73.	Blockchain-based secure privacy-preserving vehicle accident and insurance registration, AS Yadav, V Charles, DK Pandey, S Gupta, T Gherman, DS Kushwaha, <i>Expert Systems with Applications</i> 230, 120651, 2023	Expert Systems with Applications (SCIE)	7.5
72.	Evolution of Blockchain and consensus mechanisms & its real-world applications, AS Yadav, N Singh, DS Kushwaha, <i>Multimedia Tools and Applications</i> 82(22), 34363-34408, 2023	Multimedia Tools and Applications (Scopus)	3.0
71.	A novel approach for suspicious activity detection with deep learning, N Dwivedi, DK Singh, DS Kushwaha, <i>Multimedia Tools and Applications</i> 82(21), 32397-32420, 2023	Multimedia Tools and Applications (Scopus)	3.0
70.	A Comprehensive Survey on Pandemic Patient Monitoring System: Enabling Technologies, Opportunities, and Research Challenges, C Krishna, D Kumar, DS Kushwaha, <i>Wireless Personal Communications</i> 131(3), 2125-2172, 2023	Wireless Personal Communications (SCIE)	1.9
69.	Performance of Optimized Security Overhead Using Clustering Technique Based on Fuzzy Logic for Mobile ad hoc Network, AS Yadav, A Singh, A Vidyarthi, RK Barik, DS Kushwaha, <i>Cybernetics and Information Technologies</i> 23(1), 94-109, 2023	Cybernetics and Information Technologies (ESCI)	1.2
68.	An Integrated Deep Learning Prediction Approach for Efficient Modelling of Host Load Patterns in Cloud Computing, E Patel, DS Kushwaha, <i>Journal of Grid Computing</i> 21(1), 5, 2023	Journal of Grid Computing (SCIE)	4.038
67.	Restoration and fuzzy logic-based formation of multipath routing protocol in MANET, AS Yadav, N Rakesh, A Vidyarthi, RK Barik, A Singhal, DS Kushwaha, <i>International Journal of System Assurance Engineering and Management</i> 14(Suppl 1), 117-132, 2023	International Journal of System Assurance Engineering and Management (ESCI)	2.02
66.	Distributed Ledger Technology-based land transaction system with trusted nodes consensus mechanism, AS Yadav, S Agrawal, DS	Journal of King Saud University - Computer and	13.473

	Kushwaha, Journal of King Saud University - Computer and Information Sciences 34(8B), 6414-6424, 2022	Information Sciences (SCIE)	
65.	Digitization of Land Record through Blockchain-based Consensus Algorithm, AS Yadav, DS Kushwaha, IETE Technical Review 39(4), 799-816, 2022	IETE Technical Review (SCIE)	2.2
64.	A hybrid CNN-LSTM model for predicting server load in cloud computing, E Patel, DS Kushwaha, The Journal of Supercomputing 78(8), 1-30, 2022	The Journal of Supercomputing (SCIE)	2.474
63.	Sidechain: storage land registry data using blockchain improve performance of search records, AS Yadav, N Singh, DS Kushwaha, Cluster Computing 25(2), 1475-1495, 2022	Cluster Computing (SCIE)	1.809
62.	A scalable trust based consensus mechanism for secure and tamper free property transaction mechanism using DLT, AS Yadav, N Singh, DS Kushwaha, International Journal of System Assurance Engineering and Management 13(2), 735-751, 2022	International Journal of System Assurance Engineering and Management (ESCI)	0.300
61.	Employing data generation for visual weapon identification using Convolutional Neural Networks, N Dwivedi, DK Singh, DS Kushwaha, Multimedia Systems 28(1), 347-360, 2022	Multimedia Systems (SCIE)	2.018
60.	An efficient tasks scheduling algorithm for batch processing heterogeneous cloud environment, DK Shukla, D Kumar, DS Kushwaha, International Journal of Advanced Intelligence Paradigms 23(1-2), 203-216, 2022	International Journal of Advanced Intelligence Paradigms (Scopus)	0.617
59.	Blockchain-based digitization of land record through trust value-based consensus algorithm, AS Yadav, DS Kushwaha, Peer-to-Peer Networking and Applications 14(6), 3540-3558, 2021	Peer-to-Peer Networking and Applications (SCIE)	3.307
58.	An Efficient Congestion Avoiding Approach for Optimal Path Finding for Emergency Vehicle, B Rajak, S Mallick, DS Kushwaha, Recent Advances in Computer Science and Communications 14(7), 2113-2129, 2021	Recent Advances in Computer Science and Communications (Scopus)	1.06
57.	Makespan Optimization for Dependent Task Scheduling On Multiprocessing System Using Beta ABC, DK Shukla, D Kumar, DS Kushwaha, Journal of Adv. Research in Dynamical and Control Systems, 2020	Journal of Advanced Research in Dynamical and Control Systems (Scopus)	0.308
56.	Solving the Uncapacitated Single Allocation p-Hub Location Problem with Fixed Cost Using Anti-Predatory NIA, RK Sachan, DS Kushwaha, Recent Advances in Computer Science and Communications 14(7), 2288-2299, 2021	Recent Advances in Computer Science and Communications (Scopus)	1.06
55.	A Multi-Objective Anti-Predatory NIA for E-Commerce Logistics Optimization Problem, RK Sachan, DS Kushwaha, International Journal of Applied Metaheuristic Computing (IJAMC) 12(4), 1-27, 2021	International Journal of Applied Metaheuristic Computing (ESCI)	0.841
54.	Inspirations from Nature for Meta-Heuristic Algorithms: A Survey, RK Sachan, DS Kushwaha, Recent Advances in Computer Science and Communications 14(6), 1706-1718, 2021	Recent Advances in Computer Science and Communications (Scopus)	1.06
53.	Nature-Inspired Optimization Algorithms: Research Direction and Survey, RK Sachan, DS Kushwaha, IIT Kanpur, India, 2021	IIT Kanpur, India	
52.	Query Optimization in a Blockchain-based Land Registry Management System, AS Yadav, DS Kushwaha, Ingénierie des Systèmes d'Information 26(1), 13-21, 2021	Ingénierie des Systèmes d'Information (Scopus)	1.66
51.	Task scheduling to reduce energy consumption and makespan of cloud computing using NSGA-II, DK Shukla, D Kumar, DS Kushwaha, Materials Today: Proceedings, 2021	Materials Today: Proceedings (Scopus)	1.46
50.	A Best Effort Classification Model For Sars-Cov-2 Carriers Using Random Forest, S Mallick, B Rajak, AK Verma, DS Kushwaha, International Journal of Computer Science and Network Security (IJCSNS) 21(1), 27-33, 2021	International Journal of Computer Science and Network Security (ESCI)	1.5
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44.	Increasing Efficiency of Sensor Nodes by Clustering in Section Based Hybrid Routing Protocol with Artificial Bee Colony, AS Yadav, K Khushboo, VK Singh, DS Kushwaha, Procedia Computer Science 171 (CoCoNet 2019), 887-896, 2020	Procedia Computer Science (Scopus)	0.883
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35.	A Generalized and Robust Anti-Predatory Nature-Inspired Algorithm for Complex Problems, RK Sachan, DS Kushwaha, International Journal of Applied Metaheuristic Computing (IJAMC) 10(1), 75-91, 2019	International Journal of Applied Metaheuristic Computing (ESCI)	0.841
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33.	A Dynamic File Replication Based On CPU Load And Consistency Mechanism In A Trusted Distributed Environment, M Vardhan, DS Kushwaha, Tehnicki vjesnik-Technical Gazette 24(1), 147-160, 2017	Tehnicki vjesnik - Technical Gazette (SCIE)	0.644
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29.	An Efficient Approach for Detection and Speed Estimation of Moving Vehicles, T Kumar, DS Kushwaha, Procedia Computer Science 89 (IMCIP 2016), 726-731, 2016	Procedia Computer Science (Scopus)	0.883
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27.	A metric for package level coupling, A Tripathi, DS Kushwaha, CSI Transactions on ICT (CSIT) 2(4), 217-233, 2015	CSI Transactions on ICT (CSIT)	
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21.	An empirical approach for early estimation of software testing effort using SRS document, A Sharma, DS Kushwaha, CSI Transactions on ICT 1(1), 51-66, 2013	CSI Transactions on ICT (CSIT)	
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19.	A Demand Based Load Balanced Service Replication Model, M Vardhan, S Mallick, S Mishra, DS Kushwaha, GSTF Journal on Computing (JoC) 2(4), 5-10, 2013	GSTF Journal on Computing (JoC)	2.276
18.	TBFR: A Threshold-Based File Replication Approach for Increased File Availability and its Formal Verification, M Vardhan, DS Kushwaha, International Journal of Information and Communication Technology 5(2), 97-121, 2013	International Journal of Information and Communication Technology (Scopus)	1.154
17.	A Dynamic Fault Tolerant Threshold based Replication Mechanism in Distributed Environment, M Vardhan, A Goel, A Verma, DS Kushwaha, Procedia Technology 6, 188-195, 2012	Procedia Computer Science (Scopus)	0.883
16.	Estimation of Software Development Effort from Requirements Based Complexity, A Sharma, DS Kushwaha, Procedia Technology 4, 716-722, 2012	Procedia Computer Science (Scopus)	0.883
15.	Hybrid reliable load balancing with MOSIX as middleware and its formal verification using process algebra, S Mishra, DS Kushwaha, AK Misra, Future Generation Computer Systems 27(5), 506-526, 2011	Future Generation Computer Systems (SCIE)	6.125
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11.	An Efficient Web Service Discovery Architecture, S Mallick, DS Kushwaha, International Journal of Computer Applications 3(12), 1-5, 2010	International Journal of Computer Applications	0.835	
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9.	A Decentralized Approach for Service Discovery & Availability in P-Grids, R Vashishtha, A Gupta, P Gupta, S Mishra, DS Kushwaha, Journal of Computer Science and Engineering 1(1), 102-111, 2010	Journal of Computer Science and Engineering	0.533	
8.	A New Collaborative Trust Enhanced Security Model for Distributed System, A Kumari, S Mishra, DS Kushwaha, International Journal of Computer Applications 1(26), 117-124, 2010	International Journal of Computer Applications	0.835	
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1.	A Cognitive Complexity Metric Suite for Object-Oriented Software, DS Kushwaha, AK Misra, WSEAS Transactions on Computers, 604-611, 2006	WSEAS Transactions on Computers (Scopus)		

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27. Perceptual Hash Computation of Multimedia Objects Using Improved KL Transform, S Pandey, NR Pradhan, AP Singh, DS Kushwaha, Digital Communication and Soft Computing Approaches Towards Sustainable Energy Developments (ISSETA 2023), 61-69, 2024
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