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Teaching Areas: Data Structures, Computer Networks, Operating Systems, Algorithms

Research Areas: Blockchain, Distributed Ledger Technology, Distributed Computing



Education:

- PhD (CSE- An Efficient Distributed Ledger based E-Governance Framework), National Institute of Technology Raipur, February 2021
- MTech (CSE- An Efficient Approach for Handwritten Devanagari Character Recognition based on Artificial Neural Network), Banasthali Vidyapith, Rajasthan, 2018
- BTech (CSE), SIET Allahabad, 2015

Research Publications:

- Nikita Singh and Manu Vardhan, *"Blockchain based e-stamp procurement system with efficient consensus mechanism and fast parallel search"*, *Journal of Mechanics of Continua and Mathematical Sciences*, ESCI, Impact Factor: 2.8191.
- Nikita Singh and Manu Vardhan, *"Distributed ledger technology-based property transaction system with support for IOT devices"*, *International Journal of Cloud Applications and Computing (IJCAC)*, ESCI, IGI Global 2019.
- Nikita Singh and Manu Vardhan, *"Blockchain-based e-cheque clearing framework with trust-based consensus mechanism"*, *Cluster Computing*, SCIE, Springer 2020, Impact Factor: 3.458
- Nikita Singh and Manu Vardhan, *"Blockchain based e-Cheque Clearing Framework"*, *Scalable Computing: Practice and Experience*, ESCI, Impact Factor: 0.876
- Nikita Singh and Manu Vardhan, *"Digital ledger technology-based real estate transaction mechanism and its block size assessment"*, *International Journal of Blockchain and Cryptocurrencies*, Inderscience 2019.
- Nikita Singh and Manu Vardhan, *"Computing Optimal Block Size for Blockchain based Applications with Contradictory Objectives"*, *Procedia Computer Science*, Scopus, Elsevier 2020, Impact Factor:1.26
- Nikita Singh, *"An interoperable and secure e-wallet architecture based on digital ledger technology using blockchain"*, *International Conference on Computing, Power and Communication Technologies (GUCON)*, IEEE, 2018, New Delhi, India. Scopus Indexed.

- Nikita Singh and Manu Vardhan," Multi-Objective Optimization of Block Size based on CPU Power & Network Bandwidth for Blockchain Applications", 4th International Conference on Microelectronics, Computing & Communication Systems (MCCS-2019), Ranchi, India. Scopus Indexed.
- Nikita Singh, Aparna Tripathi, "*A Design Phase Understandability Metric Based on Coupling and Cohesion for Object-Oriented Systems*", Intelligent Computing, Communication and Devices, Springer New Delhi, India, 2015. Scopus Indexed.
- Nikita Singh, "*An Efficient Approach for Handwritten Devanagari Character Recognition based on Artificial Neural Network*," 2018 5th International Conference on Signal Processing and Integrated Networks (SPIN), Noida, India, 2018, pp. 894-897. Scopus Indexed.
- Nikita Singh, Tarun Kumar, "*An Improved Intelligent Transportation System: An Approach for Bilingual License Plate Recognition*", Information and Communication Technology for Intelligent Systems, Springer, Singapore (2019), pp. 29-38, 2019. Scopus Indexed.