

Publications of Prof. Chiranjeev Kumar

Publications

Publications in	Number of Publications
International Journal	99
International Conference/Seminar Proceedings	70
National Conference/Seminar Proceedings	11
Books	07
Book Chapters	05
Abstracts	03
Technical Articles	02

International Journal:

1. Mohammad Shameem, **Chiranjeev Kumar**, et al., “**The impact of personality traits and cultural values on coordination effectiveness: A study of software development teams effectiveness**”, *Published in the Journal of Software: Evolution and Process*, (ISSN: 2047-7481), **Vol. 26**, DOI: doi.org/10.1002/smr.2652, **Year 2024**.
2. G Thirumal, **Chiranjeev Kumar**, and Praveen Kumar Donta, “**Low discrepancy on non-linear sensor deployment in a time-critical linear IIoT network**,” *Published in the IEEE Internet of Things*, (ISSN: 2327-4662), **Vol. 26**, DOI: doi.org/10.1016/j.iot.2024.101165, **Year 2024**.
3. Nand Kumar Jyotish, Lalit Kumar Singh, **Chiranjeev Kumar**, and Pooja Singh, “**Reliability and Performance Evaluation of Safety-Critical Instrumentation and Control Systems of Nuclear Power Plant**,” *Published in the IEEE Transactions on Reliability*, (ISSN: 0018-9529), **Vol. 73**, Issue 1, **March 2024**, pp. 422-437.
4. Nand Kumar Jyotish, Lalit Kumar Singh, **Chiranjeev Kumar**, and Pooja Singh, “**Reliability and Performance Measurement of Safety-Critical Systems Based on Petri Nets: A Case Study of Nuclear Power Plant**,” *Published in the IEEE Transactions on Reliability*, (ISSN: 0018-9529), **Vol. 72**, Issue 4, **December 2023**, pp. 1523-1539.
5. Sudeep Varshney, **Chiranjeev Kumar**, Abhishek Swaroop, “**Sensor Architecture and Routing Algorithm for Surveillance of International Border Using Linear Wireless Sensor Network**,” *Published in the International Journal of Wireless Personal Communications (Springer)*, (ISSN: 0929-6212), **Vol. 132**, No. 1, **September 2023**, pp. 549-569.

6. Nand Kumar Jyotish, Lalit Kumar Singh, **Chiranjeev Kumar**, and Pooja Singh, "**Batch Deterministic and Stochastic Petri nets Modeling for Reliability Quantification for Safety Critical Systems of Nuclear Power Plants**," *Published in the International Journal of Nuclear Engineering and Design, (ISSN: 0029-5493), Vol. 404, DOI: doi.org/10.1016/j.nucengdes.2023.112191, Year 2023.*
7. Nand Kumar Jyotish, Lalit Kumar Singh, and **Chiranjeev Kumar**, "**Availability analysis of safety-critical systems of nuclear power plant using ordinary differential equations and reachability graph**," *Published in the International Journal of Progress in Nuclear Energy, (ISSN: 0149-1970), Vol. 159, DOI: doi.org/10.1016/j.pnucene.2023.104624, Year 2023.*
8. Pankaj Pal, Rashmi Priya Sharma, Sachin Tripathi, **Chiranjeev Kumar** and Dharavath Ramesh, "**NSGA-III Based Heterogeneous Transmission Range Selection for Node Deployment in IEEE 802.15.4 Infrastructure for Sugarcane and Rice Crop Monitoring in a Humid Sub-Tropical Region**," *Published in the IEEE Transactions on Wireless Communications, (ISSN: 1536-1276), Vol. 22, Issue 6, June 2023, pp. 3643-3656.*
9. Nand Kumar Jyotish, Lalit Kumar Singh, and **Chiranjeev Kumar**, "**Performance measurement of safety-critical systems based on ordinary differential equations and Petri nets: A case study of nuclear power plant**," *Published in the International Journal of Nuclear Engineering and Technology, (ISSN: 1738-5733), Vol. 55, Issue 3, March 2023, pp. 861-869.*
10. Pankaj Pal, Sachin Tripathi, **Chiranjeev Kumar**, "**Single Probe Imitation of Multi-Depth Capacitive Soil Moisture Sensor Using Bidirectional Recurrent Neural Network**," *Published in the IEEE Transactions on Instrumentation and Measurement, (ISSN: 0018-9456), Vol. 71, DOI:10.1109/TIM.2022.3156179, March 2022.*
11. G. Thirumal, and **Chiranjeev Kumar**, "**Multilevel sensor deployment approach in IIoT-based environmental monitoring system in underground coal mines**," *Published in International Journal of Computer Communications (Elsevier), (ISSN: 0140-3664), Vol. 195, Issue 1, November 2022, pp. 1-13.*
12. Rakesh Ranjan Kumar, Mohammad Shameem, and **Chiranjeev Kumar**, "**A computational framework for ranking prediction of cloud services under fuzzy environment**," *Published in International Journal of Enterprise Information Systems (Taylor & Francis), (ISSN: 1751-7575), Vol. 16, Issue 1, 2022, pp. 167-187.*
13. Pankaj Pal, Rashmi Priya Sharma, Sachin Tripathi, **Chiranjeev Kumar** and Dharavath Ramesh, "**Machine Learning Regression for RF Path Loss Estimation Over Grass Vegetation in IoWSN Monitoring Infrastructure**," *Published in the IEEE Transactions on Industrial Informatics, (ISSN: 1941-0050), Vol. 18, Issue 10, May 2022, pp. 3351-3377, October 2022, pp. 6981-6990.*
14. Pankaj Pal, Sachin Tripathi, and **Chiranjeev Kumar**, "**Bandwidth estimation in high mobility scenarios of MANET using NSGA-II optimized fuzzy inference system**," *Published in the*

International Journal of Applied Soft Computing (Elsevier), (ISSN: 1568-4946), **Vol. 123, July 2022**.

15. Soumen Nayak, **Chiranjeev Kumar**, and Sachin Tripathi, “**Analytic hierarchy process-based regression test case prioritization technique enhancing the fault detection rate**,” *Published in the Journal of Soft Computing (Springer)*, (ISSN: 1432-7643), **Vol. 26, June 2022, pp. 6953–6968**.
16. Sanjeev Kumar Singh, **Chiranjeev Kumar**, and Prem Nath, “**Resource-Cardinality Based Scheme to Reduce Resource Lookup Cost in Structured P2P Networks**,” *Published in the International Journal of Wireless Personal Communications (Springer)*, (ISSN: 0929-6212), **Vol. 125, May 2022, pp. 3351-3377**.
17. Sudeep Varshney, **Chiranjeev Kumar**, Abhishek Swaroop, “**Pipeline surveillance along the international border using hybrid optimization algorithm**,” *Published in the International Journal of Ambient Intelligence and Humanized Computing (Springer)*, (ISSN: 1868-5145), **Vol. 13, Issue 2, February 2022, pp. 811-819**.
18. Rashmi Priya Sharma, Dharavath Ramesh, Pankaj Pal, Sachin Tripathi, **Chiranjeev Kumar**, “**IoT enabled IEEE 802.15. 4 WSN monitoring infrastructure driven Fuzzy-logic based Crop pest prediction**,” *Published in the IEEE Internet of Things Journal*, **Vol. 9, Issue 4, February 2022, pp. 3037-3045**.
19. Nand Kumar Jyotish, Lalit Kumar Singh, **Chiranjeev Kumar**, “**A state-of-the-art review on performance measurement petri net models for safety critical systems of NPP**,” *Published in the International Journal of Annals of Nuclear Energy (Elsevier)*, **Vol. 165**, <https://doi.org/10.1016/j.anucene.2021.108635>, **January 2022**.
20. Amrit Suman, **Chiranjeev Kumar**, and Preetam Suman, “**Early detection of mechanical malfunctions in vehicles using sound signal processing**,” *Published in the International Journal of Applied Acoustics (Elsevier)*, **Vol. 188**, <https://doi.org/10.1016/j.apacoust.2021.108578>, **January 2022**.
21. Amrit Suman, **Chiranjeev Kumar**, and Preetam Suman, “**Advance routing strategy for VANETs**,” *Published in the International Journal of Internet Protocol Technology*, **Vol. 14, No. 4, November 2021, pp. 205-218**.
22. Soumen Nayak, **Chiranjeev Kumar**, Sachin Tripathi, Nirjharini Mohanty, and Vishal Baral, “**Regression test optimization and prioritization using Honey Bee optimization algorithm with fuzzy rule base**,” *Published in the Journal of Soft Computing*, **Vol. 25, 2021, pp. 9925–9942**.
23. Waris Quamer, Praphula Kumar Jain, Arpit Rai, Vijayalakshmi Saravanan, Rajendra Pamula, and **Chiranjeev Kumar**, “**SACNN: Self-attentive Convolutional Neural Network Model for Natural Language Inference**,” *Published in the ACM Transactions on Asian and Low-Resource Language Information Processing*, **Vol. 20, Issue 3, Article No. 50, May 2021, pp 1–16**.

24. Dinesh Kumar Prabhakar, Sukomal Pal, and **Chiranjeev Kumar**, “**Query Expansion for Transliterated Text Retrieval**,” *Published in the ACM Transactions on Asian and Low-Resource Language Information Processing*, **Vol. 20, Issue 4, Article No 64, July 2021, pp. 1–34.**
25. Pankaj Pal, Rashmi Priya Sharma, Sachin Tripathi, **Chiranjeev Kumar** and Dharavath Ramesh, “**2.4 GHz RF Received Signal Strength Based Node Separation in WSN Monitoring Infrastructure for Millet and Rice Vegetation**,” *Published in the IEEE Sensors Journal (ISSN: 1558-1748)*, **May 2021.**
26. Pramod Kumar, Lalit Kumar Singh, Nilesh Chaudhari and **Chiranjeev Kumar**, “**Availability analysis of safety-critical and control systems of NPP using stochastic modeling**,” *Published in the Annals of Nuclear Energy (Elsevier) (ISSN: 0306-4549)*, **Vol. 147**, <https://doi.org/10.1016/j.anucene.2020.107657>.
27. Rakesh Ranjan Kumar, Binita Kumari, Chiranjeev Kumar, “**CCS-OSSR: A framework based on Hybrid MCDM for Optimal Service Selection and Ranking of Cloud Computing Services**,” *Published in International Journal of Cluster Computing (Springer)*, (ISSN: 1573-7543), (Springer), **Vol. 24, Issue 2, May 2021, pp. 867-883.**
28. Pankaj Pal, Rashmi Priya Sharma, Sachin Tripathi, **Chiranjeev Kumar** and Dharavath Ramesh, “**Genetic algorithm optimized node deployment in IEEE 802.15. 4 potato and wheat crop monitoring infrastructure**,” *Published in the Scientific Reports (Nature)*, **Vol. 11, Issue 1, April 2021.**
29. Sudeep Varshney, **Chiranjeev Kumar**, Abhishek Swaroop, “**Lightning-Based Lion Optimization Algorithm for Monitoring the Pipelines Using Linear Wireless Sensor Network**,” *Published in the International Journal of Wireless Personal Communications (Springer)*, (ISSN: 0929-6212), **Vol. 117, Issue 3, April 2021, pp. 2475-2494.**
30. Sanjeev Kumar Singh, **Chiranjeev Kumar**, and Prem Nath, “**Analysis and modelling the effects of mobility, Churn rate, node's life span, intermittent bandwidth and stabilization cost of finger table in structured mobile P2P networks**,” *Published in the International Journal of Wireless Networks (Springer)*, (ISSN: 1022-0038), **Vol. 27, Issue 2, March 2021, pp. 1049-1062.**
31. Ginny, **Chiranjeev Kumar** and Kshirasagar Naik, “**Smartphone processor architecture, operations, and functions: current state-of-the-art and future outlook: energy performance trade-off Energy-performance trade-off for smartphone processors**,” *Published in the Journal of Supercomputing (Springer) (ISSN: 0920-8542)*, **Vol. 77, Issue 2, February 2021, pp. 1377-1454.**
32. Rakesh Ranjan Kumar, Mohammad Shameem, and **Chiranjeev Kumar**, “**A computational framework for ranking prediction of cloud services under fuzzy environment**,” *Published in the*

33. Soumen Nayak, **Chiranjeev Kumar**, Sachin Tripathi, Nirjharini Mohanty, Vishal Baral, **“Regression test optimization and prioritization using Honey Bee optimization algorithm with fuzzy rule base”** *Published in the Journal of Soft Computing (Springer) (ISSN: 1433-7479),* <https://doi.org/10.1007/s00500-020-05428-z>.
34. Amrit Suman and **Chiranjeev Kumar**, **“An approach to detect the accident in VANETs using acoustic signal,”** *Published in the International Journal of Applied Acoustics (Elsevier), (ISSN: 0003-682X), Vol. 163, June 2020,* <https://doi.org/10.1016/j.apacoust.2020.107205>.
35. Mahendra Singh, **Chiranjeev Kumar**, and Prem Nath, **“Finger Forwarding Scheme to Reduce Lookup Cost in Structured P2P Networks,”** *Published in the International Journal of Wireless Personal Communications (Springer), (ISSN: 0929-6212), Vol. 114, Issue 03, October 2020, pp. 2263-2281.*
36. Mahendra Singh, **Chiranjeev Kumar**, and Prem Nath, **“Local P2P group (LPG) communication in structured mobile P2P networks,”** *Published in the International Journal of Ambient Intelligence and Humanized Computing (Springer) (ISSN: 1868-5145), Vol. 11, Issue 07, June 2020, pp. 3005-3019.*
37. Pramod Kumar, Lalit Kumar Singh, and **Chiranjeev Kumar**, **“Performance evaluation of safety-critical systems of nuclear power plant systems,”** *Published in the International Journal of Nuclear Engineering and Technology (Elsevier) (ISSN: 1738-5733), Vol. 52, Issue 3, March 2020, pp. 560-567.*
38. Pramod Kumar, Lalit Kumar Singh, and **Chiranjeev Kumar**, **“Software reliability analysis for safety-critical and control systems,”** *Published in the International Journal of Quality and Reliability Engineering (Wiley) (ISSN: 0748-8017), Vol. 36, Issue 1, February 2020, pp. 340-353.*
39. Mahendra Singh, **Chiranjeev Kumar**, and Prem Nath, **“Mobility Pattern Based Chord (MP-Chord) for Enhanced Lookup Performance in Mobile P2P Networks,”** *Published in the International Journal of Wireless Personal Communications (Springer), (ISSN: 0929-6212), Vol. 109, Issue 3, December 2019, pp. 1971-1985.*
40. Pankaj Pal, Sachin Tripathi and **Chiranjeev Kumar**, **“Bandwidth estimation in high mobility scenarios of IEEE 802.11 infrastructure-less mobile ad hoc networks,”** *Published in the International Journal of Communication Systems (ISSN: 1074-5351), Vol. 32, Issue 15, October 2019.*
41. Pankaj Pal, Sachin Tripathi and **Chiranjeev Kumar**, **“Clustered heterogeneous wireless sensor network infrastructure for reliable and efficient path planning of mobile nodes in remote area,”** *Published in the International Journal of Sensor Networks (ISSN: 1748-1279), Vol. 31, Issue 04, October 2019, pp. 199-215.*

42. Sanjeev Kumar Singh, **Chiranjeev Kumar**, and Prem Nath, “**Local Contribution (LC) and Trustworthiness Factors to Induce Fairness in P2P Networks,**” *Published in the International Journal of Wireless Personal Communications (Springer), (ISSN: 0929-6212), Vol. 101, Issue 1, July 2019, pp. 303-323.*
43. Amrit Suman and **Chiranjeev Kumar**, “**Implementation of MAC protocol with enhanced security features in VANET,**” *Published in the International Journal of Vehicle Information and Communication Systems, (ISSN: 0929-6212), Vol. 4, Issue 1, April 2019, pp. 78-90.*
44. Pramod Kumar, Lalit Kumar Singh, and **Chiranjeev Kumar**, “**An Optimized Technique for Reliability Analysis of Safety-Critical Systems: A Case Study of Nuclear Power Plant,**” *Published in the International Journal of Quality and Reliability Engineering (Wiley) (ISSN: 0748-8017), Vol. 35, Issue 01, February 2019, pp. 461-469.*
45. Mohammad Shameem, Bibhas Chandra, **Chiranjeev Kumar**, and Arif Ali Khan, “**Impact of requirements volatility and flexible management on GSD project success: a study based on the dimensions of requirements volatility,**” *Published in the International Journal of Agile Systems and Management (IEL), Vol. 12, Issue 3, January 2019.*
46. Rakesh Ranjan Kumar, Siba Mishra & **Chiranjeev Kumar**, “**A Novel Framework for Cloud Service Evaluation and Selection Using Hybrid MCDM Methods,**” *Published in the Arabian Journal for Science and Engineering (AJSE) (Springer) (ISSN: 1319-8025), Vol. 43, Issue 12, December 2018, pp. 7015-7030.*
47. Pramod Kumar, Lalit Kumar Singh, and **Chiranjeev Kumar**, “**Suitability Analysis of Software Reliability Models for its Applicability on NPP Systems,**” *Published in the International Journal of Quality and Reliability Engineering (Wiley) (ISSN: 0748-8017), Vol. 34, Issue 08, December 2018, pp. 1491-1509.*
48. Mohammad Shameem, Bibhas Chandra, **Chiranjeev Kumar**, and Arif Ali Khan, “**Understanding the Relationships Between Requirements Uncertainty and Nature of Conflicts: A Study of Software Development Team Effectiveness,**” *Published in the Arabian Journal for Science and Engineering (AJSE) (Springer) (ISSN: 1319-8025), DOI: <https://doi.org/10.1007/s13369-018-3375-z>.*
49. Mohammad Shameem, Rakesh Ranjan Kumar, **Chiranjeev Kumar**, and Bibhas Chandra, “**Prioritizing Challenges of Agile Process in Distributed Software Development Environment using Analytic Hierarchy Process,**” *Published in the Journal of Software: Evolution and Process (Wiley) (ISSN: 2047-7473), Vol. 30, Issue 11, November 2018, pp. 01-19, DOI: <https://doi.org/10.1002/smr.1979>.*
50. Ginny, Milind Kumar Rohit, **Chiranjeev Kumar**, and Kshirasagar Naik, “**MultiDroid: An Energy Optimization Technique for Multi-Window Operations on OLED Smartphones,**” *Published in the IEEE Access (ISSN: 2169-3536), Vol. 6, August 2018, pp. 31983-31995.*

51. Sudeep Varshney, **Chiranjeev Kumar**, Abhishek Swaroop et al., “**Energy Efficient Management of Pipelines in Buildings Using Linear Wireless Sensor Networks**,” *Published in the Journal of Sensors* (ISSN: 1687-725X), **Vol. 18, Issue 8, August 2018, DOI: <https://doi.org/10.3309/s18082618>**.
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58. Dharendra Kumar Sharma, Amar Nath Patra, & **Chiranjeev Kumar**, “**P-AODV: A Priority Based Route Maintenance Process in Mobile Ad Hoc Networks**,” *Published in the International Journal of Wireless Personal Communications (Springer)*, (ISSN: 0929-6212), **Vol. 95, Issue 4, August 2017, pp. 4381-4402**.
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63. Dharavath Ramesh, Chiranjeep Kumar & Amit Kumar Jain, “**Preserving Atomicity and Isolation for multi-row Transactions in Column-oriented Heterogeneous Distributed Databases**” *Published in International Journal of Information and Communication Technology (IJICT), Vol. 10, Issue 1, January 2017, pp. 96-118.*
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67. Mohd Naseem & Chiranjeep Kumar, “**Congestion-aware Fibonacci sequence based multipath load balancing routing protocol for MANETs,**” *Published in the International Journal of Wireless Personal Communications (Springer) (ISSN: 0929-6212), Vol. 84, Issue 4, October 2015, pp. 2955-2974.*
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