Publications of Prof. Chiranjeev Kumar

International Conferences:

- 1. Sanjeev Kumar Singh, Chiranjeev Kumar, and Prem Nath, "Replication Scheme for Structured P2P System Applications in Wireless Mesh Networks (WMNs)," Published in Proceedings of the IEEE Asian Hybrid Conference on Innovation in Technology (ASIANCON) organized by Pimpri Chinchwad College of Engineering & Research (PCCOE&R), Pune, India during 28-29 August 2021, pp. 1-7.
- 2. Pramod Kumar, Lalit Kumar Singh, Chiranjeev Kumar, Sushma Verma, and Sanjay Kumar, "A Bayesian Belief Network Model for Early Prediction of Reliability for Computer Based Safety-Critical Systems," Published in Proceedings of the 2nd IEEE International Virtual Conference on Range Technology (ICORT) organized by Integrated Test Range (ITR), Chandipur, India during 05-06 August 2021, pp. 1-6.
- 3. Pramod Kumar, Lalit Kumar Singh, and **Chiranjeev Kumar**, "Model Based Verification of Safety-Critical Systems," Published in Proceedings of the 2nd IEEE International Virtual Conference for Emerging Technology (INCET) organized by JGI Group, Belgaum, India during 21-23 May 2021, pp. 1-9.
- 4. Sudeep Varshney, Chiranjeev Kumar, Abhishek Swaroop, "Leach based hierarchical routing protocol for monitoring of over-ground pipelines using linear wireless sensor networks," Published in the Procedia Computer Science (Elsevier), (ISSN: 1877-0509), Vol. 125, January 2021, pp. 208-214.
- 5. Amrit Suman, Chiranjeev Kumar and Preetam Suman, "An Approach to Prevent Road Accident using Intelligent Device," Published in Proceedings of the 9th IEEE International Conference System Modeling and Advancement in Research Trends (SMART-2020) held at TMU. Moradabad, India, 04-05 December 2020, pp. 169-174.
- 6. Priyanshu Kumar, Aadarsh Singh, Pramod Kumar, and Chiranjeev Kumar, "An Explainable Machine Learning Approach for Definition Extraction," Published in Proceedings of the International Conference on Machine Learning, Image Processing, Network Security and Data Sciences (MIND 2020) held at NIT Silchar, India, 30-31 July 2020.
- 7. Mahendra Singh, Chiranjeev Kumar, and Prem Nath, "P2P Applications in 4G/5G Networks Using D2D Communication Based on Social Attributes of Users," Published in Proceedings of the 4th IEEE World Conference on Smart Trends in Systems, Security and Sustainability (WorldS4) held at Londan, UK, 27-28 July 2020, pp. 730-738.

- 8. Richa Sinha, Mohammad Shameem, and Chiranjeev Kumar, "SWOT: Strength, Weaknesses, Opportunities, and Threats for Scaling Agile Methods in Global Software Development," Published in Proceedings of the 13th Innovations in Software Engineering Conference on Formerly known as India Software Engineering Conference (ISEC 2020) held at IIITDM, Jabalpur, India, 27-29 February 2020.
- 9. Sanjeev Kumar Sinha and Chiranjeev Kumar, "Rank-Level Fusion of Random Indexing, Word Embedding, and TF-IDF-Based Rankings for Clinical Document Retrieval," Published in Proceedings of the Evolving Technologies for Computing, Communication and Smart (ETCCS 2020) Springer, held Noida, India, 31 January to 01 February 2020, pp. 287-298.
- 10. Soumen Nayak, Chiranjeev Kumar, Sachin Tripathi, et al., "Test Case Prioritization Using OR and XOR Gate Operations" Published in Proceedings of the International Conference on Intelligent and Cloud Computing (Springer) (ICCICC- 2019) held at Bhubaneswar, India, 16-17 December 2019, pp. 327-334.
- 11. Sanjeev Kumar Sinha and Chiranjeev Kumar, "Healthcare Information Retrieval Based on Neutrosophic Logic," Published in Proceedings of the International Conference on Machine Intelligence and Signal Processing (MISP-2019), held IIIT Allahabad, India, 07-10 September 2019, pp. 225-234.
- 12. Soumen Nayak, Chiranjeev Kumar, Sachin Tripathi, and Nabajyoti Majumdar, "An Improved Approach to Enhance the Test Case Prioritization Efficiency," Published in Proceedings of the International Conference on Emerging Trends in Information Technology (ICETIT 2019) held at IITM, New Delhi, India, 21-22 June 2019.
- 13. Rakesh Ranjan Kumar, Mohammad Shameem, Rashda Khanam and Chiranjeev Kumar, "A hybrid evaluation framework for QoS based service selection and ranking in cloud environment," Published in Proceedings of the 15th IEEE India Council International Conference (INDICON-2018) held at Amrita Vishwa Vidyapeetham, Coimbatore, India, 16-18 December 2018.
- 14. Mohammad Shameem, Bibhas Chandra, Rakesh Ranjan Kumar, and Chiranjeev Kumar, "A systematic literature review to identify human related challenges in globally distributed agile software development: towards a hypothetical model for scaling agile methodologies," Published in Proceedings of the 4th IEEE International Conference on Computing Communication and Automation (ICCCA-2018) held at Greater Noida, India, 14-15 December 2018.
- 15. Himanshu Ranjan Seth, Chiranjeev Kumar, and Haider Banka, "Real-Time Implementation of Energy-Efficient Clustering Protocol in WSN," Published in Proceedings of the 4th IEEE International Conference on Computing

- Communication and Automation (ICCCA-2018) held at Greater Noida, India, 14-15 December 2018.
- 16. Imran Rasheed, Vivek Gupta, Haider Banka, and Chiranjeev Kumar, "Urdu Text Classification: A comparative study using machine learning techniques," Published in Proceedings of the 13th IEEE International Conference on Digital Information Management (ICDIM-2018) held at Porto, Portugal, 14-15 December 2018, pp. 274-278.
- 17. Mahendra Singh, Chiranjeev Kumar, and Prem Nath, "Challenges and Protocols for P2P applications in Multi-hop Wireless Networks," Published in Proceedings of the 2th IEEE International Conference on Computing Methodologies and Communication (ICCMC-2018 held at Greater Noida, India, 14-15 December 2018.
- 18. Sanjeev Kumar Singh, Chiranjeev Kumar, and Prem Nath "Ranking Based System to Reduce Free Riding Behavior in P2P Systems," Published in Proceedings of the Future of Information and Communication Conference (Springer) (FICC-2018), held at Singapore, 05-06 April 2018, pp. 165-177.
- 19. Rashda Khanam, Rakesh Ranjan Kumar, and Chiranjeev Kumar, "QoS based cloud service composition with optimal set of services using PSO," Published in Proceedings of the 4th IEEE International Conference on Recent Advances in Information Technology (RAIT-2018) held at IIT (ISM), Dhanbad, India, 03-05 March 2018.
- 20. Ginny, Chiranjeev Kumar, Kshirasagar Naik, "Dynamic refresh rate partitioning scheme for multiwindow screen sharing applications," Published in Proceedings of the 4th IEEE International Conference on Recent Advances in Information Technology (RAIT-2018) held at IIT (ISM), Dhanbad, India, 03-05 March 2018.
- 21. Ginny, Chiranjeev Kumar & Kshirasagar Naik, "A Study on User Interaction with Multi-window Screen Support Framework for Multitasking Operations on Smartphones", Published in Proceedings of the 14th IEEE India Council International Conference (INDICON-2017) held at IIT, Roorkee, India, 15-17 December 2017.
- 22. Sudeep Varshney, Chiranjeev Kumar & Abhishek Swaroop, "Leach Based Hierarchical Routing Protocol for Monitoring of Overground Pipelines Using Linear Wireless Sensor Networks", Published in the Proceedings (Procedia Computer Science) of 6th International Conference on Smart Computing and Communications (ICSCC-2017) held at Kurukshetra, India on 07-08 December 2017, pp. 208-214.

- 23. Mohd Shameem, Chiranjeev Kumar, Bibhas Chandra & Arif Ali Khan, "Systematic Review of Success Factors for Scaling Agile Methods in Global Software Development Environment: A Client-Vendor Perspective," Published in the Proceedings of 2017 24th Asia-Pacific Software Engineering Conference Workshops (APSECW 2017) held at Nanjing, China on 4-8 December 2017, pp. 17-24.
- 24. Rakesh Ranjan Kumar & Chiranjeev Kumar, "Designing an efficient methodology based on Entropy-TOPSIS for evaluating efficiency of cloud services", Published in the Proceedings of the 7th ACM International Conference on Computer and Communication Technology, held at MNNIT Allahabad, India, 24-26 November 2017, pp. 117-122.
- 25. Siba Mishra & Chiranjeev Kumar, "Improving the trust of end users in enterprise SOA using combinatorial group testing methods," Published in the Proceedings of the 12th International Conference on Digital Information Management (ICDIM 2017), held at Kyushu University, Fukuoka, Japan on 12-14 September 2017, pp. 144-149.
- 26. Mohd Shameem, Chiranjeev Kumar, & Bibhas Chandra, "A proposed framework for effective software team performance: A mapping study between the team members' personality and team climate," Published in the Proceedings of 2017 International Conference on Computing, Communication and Automation (ICCCA 2017) held at Greater Noida, India on 5-6 May 2017, pp. 912-917.
- 27. Mohd Shameem, Chiranjeev Kumar, & Bibhas Chandra, "Challenges of Management in the Operation of Virtual Software Development Teams: A Systematic Literature Review," Published in the Proceedings of 2017 International Conference on Advanced Computing and Communication Systems (ICACCS -2017) held at Coimbatore, India on 6-7 January 2017.
- 28. Rakesh Ranjan Kumar & Chiranjeev Kumar, "An evaluation system for cloud service selection using fuzzy AHP", Published in the Proceedings of the 11th IEEE International Conference on Industrial and Information Systems (ICIIS) held at IIT Roorkee, India, 3-4 December 2016, pp. 821-826.
- 29. Mohit Chawla, Kriti Singh & Chiranjeev Kumar, "Attitudinal Data based Server Job Scheduling using Genetic Algorithms", Published in the Proceedings of the 9th IEEE International Conference on Contemporary Computing (IC3) held at JIIT, Noida, India, 11-13 August 2016, pp. 1-7.
- 30. Soumen Nayak, Chiranjeev Kumar, & Sachin Tripathi, "Effectiveness of Prioritization of Test Cases based on Faults," Published in the Proceedings of the 3rd IEEE International Conference on Recent Advances in Information Technology (RAIT 2016) held at Indian School of Mines (ISM), Dhanbad, India, 03-05 March 2016, pp. 657-662.

- 31. Amrit Suman, & Chiranjeev Kumar, "A Behavioral Study of Sybil Attack on Vehicular Network," Published in the Proceedings of the 3rd IEEE International Conference on Recent Advances in Information Technology (RAIT 2016) held at Indian School of Mines (ISM), Dhanbad, India, 03-05 March 2016, pp. 56-60.
- 32. Mohd Shameem, **Chiranjeev Kumar**, & Bibhas Chandra, "**Communication related issues in GSD: An Exploratory study**," *Published in the Proceedings of 9th IEEE International Conference on Software, Knowledge, Information Management & Applications (SKIMA-2015), held at Kathmandu, Nepal on 15-17 December 2015, pp. 1-5.*
- 33. Sudeep Varshney, Chiranjeev Kumar & Abhishek Swaroop, "Linear Sensor Networks: Applications, Issues and Major Research Trends," Published in the Proceedings of IEEE International Conference on Computing, Communication and Automation Computing (ICCCA-2015), held at Galgotias University, Greater Noida, India on 15-16 May 2015, pp. 446-451.
- 34. Sudeep Varshney, Chiranjeev Kumar & Abhishek Swaroop, "A Comparative Study of Hierarchical Routing Protocols in Wireless Sensor Networks," Published in the Proceedings of 2nd IEEE International Conference on Computing for Sustainable Global Development, held at BVICAM, New Delhi, India on 11-13 March 2015, pp. 7.154-7.159.
- 35. Mohd Naseem & Chiranjeev Kumar, "Distributed Bandwidth Guarantee using Multi-path routing protocol in Mobile Ad Hoc Network," Published in the Proceedings of the First International Conference on Science, Engineering and Management Research (ICSEMR-2014), held at Vel Tech MultiTech Dr. Rangarajan Dr. Sakunthala Engineering College, Chennai, India on 27-29 Nov 2014.
- 36. Siba Mishra, Chiranjeev Kumar, "Estimating Development Size and Effort of Business Process Service-Oriented Architecture Applications," Published in the Proceedings of IEEE 2nd International Conference on Systems and Informatics (ICSAI-2014), held at Shanghai, China on 15-17 Nov 2014, pp. 991-996.
- 37. Dhirendra Kumar Sharma, Amar Nath Patra, Chiranjeev Kumar, "AODV-OF: An Overhearing Based Route Repair Process for Reactive Routing Protocols," Published in the Proceedings of VIIIth IEEE International Conference on Computing for Sustainable Global Development, held at BVICAM, New Delhi, India on 05-07 March 2014, pp. 777-782.
- 38. Siba Mishra, Urvashi Sharma, Chiranjeev Kumar, "A Novel Approach for Computing Dynamic Slices of Web Based Applications," Published in the Proceeddings of the IEEE 4th International Conference on Advanced Computing

- & Communication Technologies (ACCT), held at Rohtak, India on **08-09** February 2014, pp. 153-158.
- 39. Dhirendra Kumar Sharma, Amar Nath Patra, P. K. Mishra, Chiranjeev Kumar, "Aperiodic Hello Process for Reduction of Routing Overhead in Mobile Ad Hoc Networks," Published in the Proceedings of IEEE International Conference on Recent Trends in Computer Science and Engineering (ICTRCSE-2014), held at Central University Bihar, Patna, India on 8-9 February 2014, pp. 169-174.
- 40. Mohd. Naseem & Chiranjeev Kumar, "EDSDV: Efficient DSDV Routing Protocol for MANET," Published in the Proceedings of 2013 IEEE International Conference on Computational Intelligence and Computing Research (ICCIC-2013) held at Vickram College of Engineering, Madurai, Tamilnadu, India on 26-28 December 2013, pp. 1-4.
- 41. Dharavath Ramesh & Chiranjeev Kumar, "A Scalable Matching Approach Based Density Function for Heterogeneous Database Integration", Published in the Proceedings of 2nd IEEE International Conference on Advanced Computing Networking and Security (ADCONS), December 2013, pp. 117-123.
- 42. Dharavath Ramesh & Chiranjeev Kumar, "An Algorithmic Model Scenario for Fragment Allocation to Handle Transaction Conflicts in Heterogeneous Distributed Databases", Published in the IJCA Special Issue on International Conference on Computing, Communication and Sensor Network CCSN2012, March 2013, pp. 34-39.
- 43. Dhirendra Kumar Sharma, **Chiranjeev Kumar**, Surajit Mandal, "An Efficient Cluster based Routing Protocol for MANET," Published in the Proceedings of the 3rd IEEE International Advance Computing Conference (IACC-2013), held at AKG Engineering College, Ghaziabad, India on 22 23 February 2013, pp. 224-229.
- 44. Dharavath Ramesh, Amit Kumar Jain & Chiranjeev Kumar, "Implementation of Atomicity and Snapshot Isolation for Multi Row Transactions on Column oriented Distributed Databases using RDBMS," Published in the Proceedings of IEEE International Conference on Communications, Devices and Intelligent Systems (CODIS—2012) held at Jadavpur University, Kolkata, India, 28-29 December 2012, pp. 298 301.
- 45. Dhirendra Kumar Sharma, Mohd. Naseem & Chiranjeev Kumar, "ERP: An Energy-Efficient Reactive Routing Protocol for Mobile Ad-hoc Networks," Published in the proceedings of International Conference on recent Trends in Engineering & Technology (ICRTET-2012) held at New Delhi, India, 23 December 2012, pp. 13-17.
- 46. Prem Nath & Chiranjeev Kumar, "User Movement-Based Hierarchical Mobility Management Scheme (UM-HMIP) for IP Networks," Published in the

- Proceedings of the 3rd IEEE International Conference on Computer & Communications Technology (ICCCT 2012) held at MNNIT, Allahabad, India on **23-25 November 2012, pp. 210-215**.
- 47. Dharavath Ramesh, Chiranjeev Kumar, and B.Ramji, "Design of a Transaction Recovery Instance based on Bi-directional Ring Algorithm for Crashed Coordinator in Distributed Database Systems," Published in the Proceedings of 2nd IEEE World congress on Information and communication Technology (WICT 2012) held at IIIT, Kerala, India, 1-2 November 2012, pp. 721-726.
- 48. Dharavath Ramesh & Chiranjeev Kumar, "An Optimal Novel Byzantine Agreement Protocol (ONBAP) for Heterogeneous Distributed Database Processing Systems," Published in the Proceedings of the 2nd International Conference on Communication, Computing & Security (ICCCS-2012) held at NIT, Rourkela on 6-8 October 2012, pp. 57-66.
- 49. Prem Nath & Chiranjeev Kumar, "Adaptive Hierarchical Mobility Management Scheme (A-HMIP) for IP Networks," Published in the Proceedings of the 12th International Symposium on Communications and Information Technologies (ISCIT-2012) held at Surfers Paradise, Gold Coast, Australia on 2-5 October 2012, pp. 331-336.
- 50. Chiranjeev Kumar, Gaurav Kumar & Puja Rani, "Efficient-Dynamic Source Routing (E-DSR)," Published in the Proceedings of the 12th International Symposium on Communications and Information Technologies (ISCIT-2012) held at Surfers Paradise, Gold Coast, Australia on 2-5 October 2012, pp. 319-324.
- 51. Prem Nath, Chiranjeev Kumar, R. K. Yadav, & Adarsh Pandey "Replication Strategy using Huffman Tree like Structure," Published in the Proceedings of the International Conference on Advances in Electronics, Electrical & Computer Science Engineering (EEC-2012) held at Dehradun on July 07-09, 2012, pp. 392-396.
- 52. Sanjay Kumar Biswash, **Chiranjeev Kumar**, Mohan Kumar Peruru, & Neeraj Tyagi, "Transferring Header Compression Context in Cellular IP Networks," Published in the Proceedings of the 1st IEEE International Conference on Recent Advances in Information Technology (RAIT 2012) held at Indian School of Mines (ISM), Dhanbad, India, **15-17 March 2012**, pp. 285-289.
- 53. Dhirendra Kumar Sharma, **Chiranjeev Kumar**, Sandeep Jain, & Neeraj Tyagi, "An Enhancement of AODV routing protocol for Wireless Ad Hoc Networks," Published in the Proceedings of the 1st IEEE International Conference on Recent Advances in Information Technology (RAIT 2012) held at Indian School of Mines (ISM), Dhanbad, India, **15-17 March 2012**, vol. 1, pp. 290-294.

- 54. Mahua Banerjee, Chiranjeev Kumar, & Sushil Ranjan Roy, "Feature Oriented Programming: A Step towards Flexible Composition of Modular Programming," Published in the Proceedings of the 1st IEEE International Conference on Recent Advances in Information Technology (RAIT 2012) held at Indian School of Mines (ISM), Dhanbad, India, 15-17 March 2012, pp. 369-373.
- 55. Gaurav Kumar, Puja Rani & Chiranjeev Kumar, "Reliable-AODV," Published in the Proceedings of the 2nd IEEE International Conference on Computer & Communications Technology (ICCCT 2011) held at MNNIT, Allahabad, India on September 15-17, 2011, pp. 568-573.
- 56. Chiranjeev Kumar, Neeraj Tyagi, Rajeev Tripathi, M. Lakshmi Prasanth Kumar, Dhirendra Kumar Sharma and Sanjay Kumar Biswash, "An Efficient Routing Protocol for Ad Hoc Networks," Published in the Proceedings of International Conference on Advances on Computing & Communications (ACC-2011) held at Kochi, Kerala (India) on July 22-24, 2011, CCIS, Springer-Verlag, Part I, Vol. 190, pp. 11-20.
- 57. Mahua Banerjee, Chiranjeev Kumar & Sushil Ranjan Roy, "A Refactoring Model for Developing Efficient Refactoring Tools," Published in the Proceedings of Annual International Conference on Software Engineering (SE-2010) held at Phuket (Thailand), December 06-07, 2010, pp. S55 to S60.
- 58. Manoj Kumar Singh & Chiranjeev Kumar, "Advance-AODV: Refinement of AODV Routing Protocol in Wireless Ad Hoc Networks," Published in the Proceedings of the First International Conference on Management of Technologies & Information Security (ICMIS 2010) held at IIIT Allahabad, India, 21-24 January 2010, pp. 346-354.
- 59. Chiranjeev Kumar, Kamalay Kiranmayi, Arpit Bhargava & Debashish Mohanta, "Efficient Bandwidth Utilization in Mobile Environments for Cache Consistency Using Queried Data (CCUQD) Approach," Published in the Proceedings of the IEEE INDICON –2009 held at DA-IICT, Gandhinagar, India, 18-20 December 2009, pp. 402-408.
- 60. Sanjay Kumar Biswash & Chiranjeev Kumar, "Dynamic VLR Based Location Management Scheme for PCS Networks," Published in the Proceedings of the International IEEE Conference on Methods and Models in Computer Science (ICM2CS 09) held at JNU, New Delhi, India, 14-15 December 2009, pp. 276-280
- 61. Koteswararao Kondepu & Chiranjeev Kumar, "An Effective Pointer-Based HLR Location Registration Scheme in Location Management for PCS Networks," Published in the Proceedings of the First IEEE International Conference on COMunication Systems and NETworks (COMSNETS-2009) held at Bangalore, 5-10 January 2009, pp. 570-571.

- 62. Chiranjeev Kumar, G. R. Madhuri & Shweta Agrawal, "Efficient Bandwidth Utilization in Mobile Environments for Temporal Based Cache Invalidation," Published in the Proceedings of the IEEE TENCON-2008 held at University of Hyderabad, Hyderabad, 18-21 November 2008.
- 63. Koteswararao Kondepu, Chiranjeev Kumar & Rajeev Tripathi, "Partially Overlapping Super Location Area (POSLA): An Efficient Scheme for Location Management in PCS Networks" Published in the Proceedings of IEEE 67th Vehicular Technology Conference: VTC-2008 Spring held at Marina Bay, Singapore, 11-14 May 2008, pp. 2182-2187.
- 64. Srinivasa Reddy Kasu, Santosh Kumar Bellana & Chiranjeev Kumar, "A Binary Countdown Medium Access Control Protocol Scheme for Wireless Sensor Networks," Published in the Proceedings of IEEE 10th International Conference on Information Technology (ICIT-2007) held at NIT, Rourkela (Orissa), India, 17-20 December 2007, pp. 122-126.
- 65. Chiranjeev Kumar, Koteswararao Kondepu & Rajeev Tripathi, "An Efficient Analytical Method for Location Management Strategy in Cellular Mobile Networks" Published in the Proceedings of The World Congress on Engineering & Computer Science (WCECS-2007) organized by The International Association of Engineers (IAENG) held at San Francisco, USA, 24-26 October 2007, pp. 374-379.
- 66. Chiranjeev Kumar & Rajeev Tripathi, "Efficient Location Management Scheme for Wireless Networks," Published in the Proceedings of the International Conference on Information & Communication Technology (IICT-2007) held at Dehradun Institute of Technology (DIT), Dehradun, Uttranchal, India, 26-28 July 2007, pp. 808-811.
- 67. Chiranjeev Kumar, Neeraj Tyagi & Rajeev Tripathi, "Performance Improvement of Mobile IP," Published in the Proceedings of the International Conference on Next Generation Communication Systems A Perspective (ICONGENCOM-2006) held at J. K. Institute of Applied Physics & Technology, University of Allahabad, Allahabad, India, 09-11 December 2006, pp. 90-93.
- 68. Chiranjeev Kumar, Hemant Kumar Pande & Rajeev Tripathi, "A New Boundary Location Register Signaling Protocol for Inter-system Roaming," Published in the Proceedings of 4th IEEE International Conference on Communication Networks and Services Research (CNSR-2006) held at Moncton, New Brunswick, Canada, 23-25 May 2006, pp. 267-273.
- 69. Chiranjeev Kumar & Rajeev Tripathi, "Location Management & Handoff Protocol for Wireless ATM Networks," Published in the Proceedings of 2005

- IEEE International Conference on Electro Information Technology (EIT-2005) held at Lincoln, NE, USA, 22-25 May 2005, pp. 1-6.
- 70. Chiranjeev Kumar, Neeraj Tyagi & Rajeev Tripathi, "Performance of Mobile IP with New Route Optimization Technique," Published in the Proceedings of 7th IEEE International Conference on Personal Wireless Communications (ICPWC-2005) held at New Delhi, India, 23-25 January 2005, pp. 522-526.