

Publications of Dr. Chiranjeev Kumar

International Journal:

1. Sanjay Kumar Biswash & **Chiranjeev Kumar**, “*Multi Home Agent and Pointer-Based (MHA-PB) Location Management Scheme in Integrated Cellular-WLAN Networks for Frequent Moving Users*,” Published in the Elsevier Computer Communications (COMCOM) Journal, Vol. 33, Issue 18, December 2010, pp. 2260-2270.
2. **Chiranjeev Kumar** & Rajeev Tripathi, “*Modified Boundary Location Register: An Inter-system Roaming Signalling Protocol*,” Published in the IET Journals of Communications, Vol. 4, Issue 15, October 2010, pp. 1827-1837.
3. Sanjay Kumar Biswash & **Chiranjeev Kumar**, “*An Efficient Data Link Protocol for Integrated Wireless Networks: Next Generation Networks (NGN)*,” Published in the International Journal on Computer Science and Engineering (IJCSE), Vol. 2, Issue 6, September 2010, pp. 2092-2095.
4. Dharendra Kumar Sharma, Sanjay Kumar Biswash & **Chiranjeev Kumar**, “*Enhancement of Split Multipath Routing Protocol in MANET*,” Published in the International Journal on Computer Science and Engineering (IJCSE), Vol. 2, No. 3, May 2010, pp. 679-685.
5. **Chiranjeev Kumar** & Rajeev Tripathi, “*Adaptation of the Preemptive Handoff Scheme in an Integrated Mobile Communication Environment*,” Published in the African Journal of Mathematics & Computer Science Research (AJMCSR), Vol. 2(8), September 2009, pp. 167-178
6. **Chiranjeev Kumar**, Neeraj Tyagi & Rajeev Tripathi, “*Design & Simulation of Multicast Based Fast Handoff Scheme for HMIPv6*,” Published in the International Journal of Advanced Computer Engineering (IJACE), Vol. 1, Issue 2, July-December 2008, pp. 57-73.

International Conferences:

1. 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.
2. 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 IIT Allahabad, India, 21-24 January 2010, pp. 346-354.*
3. **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.*
 4. 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*
 5. 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.*
 6. **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.*
 7. 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.*
 8. 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.*
 9. **Chiranjeev Kumar**, “*QoS Optimized Dynamic Multicast Routing Using Genetic Algorithm Approach,*” Published in the Proceedings of *2nd International conference on Advanced Computing & Communication Technologies (ICACCT-2007) held at APIIT SD INDIA, Panipat (Haryana), India, 03-04 November 2007, pp. 80-83.*

10. **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.**
11. **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.**
12. **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.**
13. **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.**
14. **Chiranjeev Kumar & Rajeev Tripathi**, “*Location Management & Handoff Protocol for Wireless ATM Networks*,” Published in the Proc. of 2005 IEEE International Conference on Electro Information Technology (EIT-2005) held at Lincoln, NE, USA, **22-25 May 2005, pp. 1-6.**
15. **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.**
16. **Chiranjeev Kumar & Rajeev Tripathi**, “*Route Optimization for Better Performance of Mobile IP*,” Accepted in IEEE South East Conference on Communication (SouthEastCon 2003) held at Jamaica, West Indies, **04-06 April 2003.**

National Conferences:

1. Mahua Banerjee, **Chiranjeev Kumar** & Sushil Ranjan Roy, “*Refactoring and the prospect of Refactoring Tools*,” Presented at the 1st National Conference on Managing Global Business in Competitive Business Environment held at Institute of Management 7 Technology (Ratan Group of Institutions), Mohali, Chandigarh, **01 May 2010.**

2. Dharendra Kumar Sharma, Sanjay Kumar Biswash & **Chiranjeev Kumar**, “***A Survey of Routing Protocols for Mobile Ad Hoc Networks***,” Published in the *Proceedings of the National Conference on Emerging Trends in Electronics Engineering & Computing (E³C 2010) held at J. D. College of Engineering, Nagpur, 9-10 February 2010, pp. 229-234.*
3. Sanjay Kumar Biswash & **Chiranjeev Kumar**, “***Distance-Direction-Probability Based Location Management Scheme for Wireless Cellular Network***,” Published in the *Proceedings of the National Seminar on Recent Advances on Information Technology (RAIT – 2009) held at Indian School of Mines University (ISMU), Dhanbad, 6-7 February 2009, pp. 30-38*
4. Mahua Banerjee & **Chiranjeev Kumar**, “***Aspect Oriented Programming: An Alternative Modularization Mechanism***,” Published in the *Proceedings of the National Seminar on Recent Advances on Information Technology (RAIT – 2009) held at Indian School of Mines University (ISMU), Dhanbad, 6-7 February 2009, pp. 223-230*
5. Mahua Banerjee, **Chiranjeev Kumar** & Sushil Ranjan Roy, “***An Approach to Model Driven Software Development***,” Presented at the *National Conference on Managing Technology for Organizational Excellence held at Swami Vivekanand Group of Institutes (SVGSI), Chandigarh, 23 January 2009.*
6. **Chiranjeev Kumar** & Rakesh Soni, “***Multicast-Based Approach for Micro-Mobility & Comparison of its Handoff Latency with other Micro-Mobility Schemes***,” Published in the *Proceedings of the National Seminar on Frontiers in Electronics, Communication, Instrumentation & Information Technology (FECIT-2008) held at Indian School of Mines University, Dhanbad, 13-15 October 2008, pp. 141-150.*
7. **Chiranjeev Kumar** & Rajeev Tripathi, “***A Review of Mobility Management Schemes for the Wireless Networks***,” Published in the *Proceedings of the National Seminar on Frontiers in Electronics, Communication, Instrumentation & Information Technology (FECIT-2008) held at Indian School of Mines University, Dhanbad, 13-15 October 2008, pp. 109-115.*
8. Koteswararao Kondepu, Manikanta Velaga, & **Chiranjeev Kumar** “***A Pointer-Based HLR Location Management Scheme for PCS Networks***,” Published in the *Proceedings of the National Seminar on Recent Advances on Information Technology (RAIT – 2007) held at Indian School of Mines University, Dhanbad, 26-27 February 2007, pp. 77-85.*
9. **Chiranjeev Kumar** & Rajeev Tripathi, “***Performance Improvement of Mobile Networks***,” Accepted in the *National Conference on Computing &*

Communication (NCCC-2006) held at Dr. Mahalingam College of Engineering & Technology, Pollachi, 15-16 September 2006.

10. Gaurav Pathak, **Chiranjeev Kumar** & Rajeev Tripathi, “**Mobile Location Management in Wireless ATM Networks,**” *Published in the Proceedings of National Conference on Research & Practices in Current Areas of IT (RPIT’04) held at SHSL Central Institute of Engineering and Technology (CIET), Longowal, 26-27 March 2004, pp. 236-240.*

Technical Article:

Published a technical article on “**Internet Telephony: PC to PC and PC to Phone Communication**” in *Computer Society of India, Allahabad Chapter, News Letter, vol. 1, Issue 9, April 2002.*