

Dr.Shailendra Mishra

College of Computer & Information Science
Majmaah University
Majmaah,Saudi Arabia

Received PhD degree in Computer Science and Computer Science & Engineering in the Year 2007 and 2011 from Gurukul Kangri University Uttarakhand, India and Uttarakhand Technical University, Dehradun, India respectively. Master of Engineering Degree (M E) in Computer Science & Engineering (Specialization: Software Engineering) from MNREC Allahabad, University of Allahabad (Now MotiLal Nehru National Institute of Technology (MNNIT)) India & Master Degree in Electronics from University of Allahabad, India in the Year 2001 and 1992 respectively.

Presently working as Professor in College of Computer and Information Science, Majmaah University, Majmaah, Kingdom of Saudi Arabia (KSA). From August 1998 to Feb 2001, he was associated with the Department of Computer Science and Electronics at ADC, University of Allahabad, India as a Lecturer and Coordinator Computer Science & Electronics Department. From Feb 2001 to Feb 2002, associated with RG Engineering College, Meerut India as Lecturer in the Department of Computer Science and Engineering. From 15 Feb 2002 to 26 Aug 2009, associated with Dehradun Institute of Technology (DIT) Dehradun, India, as Sr.Lecturer, Assistant Professor, Associate Professor and Professor. Worked as Professor in Computer Science and Engineering Department, BTKIT Govt. Engg. College Dwarahat, Almora, Uttarakhand India.

His recent research has been in the field of Advance Network Architecture, Mobile Computing, and Software Engineering, also conducting research on Communication System & Computer Networks with Performance evaluation and design of Multiple Access Protocol for Mobile Communication Network and handled many research projects during the last 5 years; Power control and resource management for WCDMA System funded and sponsored by AICTE, New,India, , IT mediated education and dissemination of health information via Training & e-Learning Platform sponsored and funded by Oil Natural Gas Commission (ONGC), New Delhi, India ,IT based Training and E-Learning Platform, sponsored and funded by UCOST, Department of Science and Technology,Govt. of Uttarakhand, India, Web based Management system of Uttarakhand Information Deptt. Sponsored by Uttarakhand Information Deptt,Uttarakhand,India, Design and analysis of Network Architecture in Hilly region Institute Sponsored by AIS Lucknow,UP,india etc.

Received Young Scientist Award in 2006 and 2008 from Department of Science & Technology, UCOST Government of Uttarakhand, India. Supervised Six (6) PhD and 20 M.Tech Dissertation & currently guiding two (2) PhD research scholars and authored two books in the area of Computer Network and published & presented 76 research papers in international journals and international conferences and wrote more than 10 articles on various topics in national magazines. Member of Institution of Engineers India (IEI), Indian Society of Technical Education (ISTE) and ACEEE.

Awards

- **Young Scientist Award** in IIIrd Uttarakhand State Science Congress organized by Uttaranchal Council for Science & Technology, Department of Science & Technology, Govt. of Uttarkhand, India (10,11 Nov 2008),
- **Young Scientist Award** in Ist Uttaranchal State Science Congress organized by Uttaranchal Council for Science & Technology, Department of Science & Technology, Govt. of Uttarkhand, India (11 Nov 2006),
- **Best paper award** for paper titled “**Self-tuning Adaptive Algorithm for Power Control in WCDMA Systems**” in MATLAB and Simulink International Tech.Expo 2005 organized By Cranes International and Mathworks, USA.

Consultancy/ Projects undertaken

Principal Investigator

- **Project entitled “IT mediated education and dissemination of health information via Training & e-Learning Platform”**, sponsored and funded by ONGC, New Delhi, India (November 2006 - July 2008) [letter No. D(HR)/CCP/spons/147/06/07 dated Nov. 3,2006, Grant-5 lakh, status completed]
- **Project entitled “IT based Training and E-Learning Platform”**, sponsored and funded by UCOST, Department of Science and Technology, Govt. of Uttarakhand, India (December 2006 – July 2009) [File No UCS & T /R&D/Engg.-06/06-07/1045 Grant-5 lakh status completed]
- **Project entitled “Power Control Algorithm in WCDMA System”** AICTE (under adoption scheme) [File No1-51/CD/EF(008)/2003-04 Grant-1 lakh status completed]
- **Consultant** for Design and analysis of Network Architecture in Hilly region Institute -Agray Info solutions Lucknow. [letter No.- DATED 15 Oct 2011]

Courses taught at UG Level (B.Tech CSE/IT)

Aug 1988 to till date:

- Distributed System
- Data Communication & Computer Networks
- Computer Architecture
- Operating System
- Software Engineering
- Cryptography and Networks Security
- Software Project Management
- Database (RDBMS)
- System Analysis and Design
- Computer Organization
- OOPs
- Computer Graphics
- Computer Algorithm

Courses taught at PG Level (M.Tech CSE/MCA)

Jan 2002 to till date:

- Advanced Computer Architecture
- Advance Computer Network
- Distributed Computing
- Mobile Computing
- Distributed Data base
- Advanced Software Engineering
- Wireless Network
- Network Security

Research Areas

- Distributed Computing
- Mobile Computing
- Wireless Networks

- Advance Network Architecture
- Software Engineering

Professional Activities

- Hon' Secretary, Institution of Engineers India (IEI) Uttarakhand State Center(Aug 2008 –Aug 2010)
- Convener, Board of Studies (BOS) (B.Tech CSE,IT and M.Tech CSE) UTU, Dehradun (July 2005 –20 Aug 2013)
- Member Board of Studies((BOS)-,B.Tech CSE & IT) UPTU Lucknow (July 2002 –July 2006)

Professional body Membership

- IEI-Institution of Engineers India (IE(I)): M 094574-1
- ACEEE: IM-1279
- ISTE-Indian Society of Technical Education (ISTE): LM 42708

Conferences, Seminars and Workshops organized

- **Programme Chair** (Convener), International Conference on Information and Communication Technology: IICT2007 organized by UCOST,BSNL,DIT and IEI State Center Uttarakhand (26-28 July 2007)
- **Convener**, National Technology Day celebration organized by Department of Science and Technology, Govt. of Uttarakhand, India ,11 May 2007
- **Convener**, Uttarakhand Rajay Vigyan Pradershani, will be organized by Department of Science and Technology, Govt. of Uttarakhand, India 13 Oct 2007.
- **Coordinator**, National Technology Day, organized by Uttaranchal Council for Science &Technology, Department of Science &Technology, Govt. of Uttarkhand, India ,(11 may 2007)
- **Coordinator**, 1st Uttaranchal State Science Congress organized by Uttaranchal Council for Science &Technology, Department of Science &Technology, Govt. of Uttaranchal, India (10-11 Nov 2006).
- **Organizing Secretary**: National Conference on Communication and Computational technique: Present and Future trends- NCCT-06" organized by HP India,BSNL,DIT and IEI State Center Uttarakhand ,10-11 Feb 2006.
- **Coordinator**: International Seminar on Sustainable development, organized by Swis Fedral Institute of Technology,Switzerland and DIT, 11-16 April 2005.

Convener

- 3 day Workshop on .NET Technology (17-19 February 2005).
- 3 day short term course on Advance Computer Graphics (25-27 October 2005).
- 2 day workshop on Digital Image Processing (29-30 October 2004).
- 5 day short term training program on MATLAB under TEQIP World Bank Project, Govt.of India (3 – 7 August 2005).

Course Coordinator

- Advance Computer Architecture (Feb 23-28, 2009) , TEQIP, World Bank Project, Govt. of India .
- .NET Technology & Its Impact on Automation Application Development, (January 10 -16, 2008) TEQIP, World Bank Project, Govt. of India.
- CISCO Academy Programme (CCNA & CCNP Certification) BTKIT-KEC,Dwarahat,India (Aug. 2009 to 20 Aug 2013)

RESEARCH, PUBLICATION AND ACADEMIC CONTRIBUTIONS

- Research Guidance**
Student Research – Doctoral Degrees (Ph D)-06
Master Degree M.Tech-20
- Published Paper in International Journals & International/National Conferences – 76**
- Articles/Chapters/Books published – 04**
- Completed Research Projects and Consultancies-05**

Student Research – Doctoral Degrees (PhD Supervised)

| S.No. | Name of Student | Year of Completion | Title of Thesis | Co-Supervisors |
|-------|-----------------|--------------------|--|---------------------------------|
| 1 | Devendra Singh | 2011 | Improvement of Distribution Network using Branch and Bound Method | - |
| 2 | Mayank Singh | 2012 | Scalable automated methods for Aspect Oriented Programs (AOP) | Prof.Rajib Mall,IIT Kharagpur |
| 3 | Sarad Saxena | 2012 | Power Management in ad-hoc sensor network through Energy Efficient Communication Protocol | Prof.A.K.Sharma, YMCA Faridabad |
| 4 | Annpurna Singh | 2012 | Performance analysis of Overlay Network Architecture for mobility and QOS. | - |
| 5 | Anurag Rai | 2012 | DEVELOPMENT OF TASK ALLOCATION MODELS FOR EFFICIENT UTILIZATION OF PROCESSORS CAPACITY IN DISTRIBUTED COMPUTING SYSTEM | Prof.V.Kapoor |
| 6 | Sachin Yadava | 2013 | Performance Evaluation of Overlay Network Architecture For Streaming Media Distribution | - |

Student Research – Masters Degrees

| S.No. | Name of Student | Year of Completion | Title of Thesis |
|-------|------------------------|--------------------|--|
| 1 | Kireet Joshi | 2013 | Algorithmic Approach to Predict Fault Propagation and Defects in Dependent Modules based on Coupling |
| 2 | Rajendra Singh Bisht | 2013 | Network Structure and Topology based Routing Techniques in Wireless Sensor Network- A survey |
| 3 | Ashutosh Bharadwaj | 2013 | Performance Analysis of Sorting Algorithm Based on input sequences. |
| 4 | Vivek Kumar | 2013 | Performance Analysis of Overlay Network in Wireless system |
| 5 | Aakanksha Agrawal | 2013 | Improving Fault Tolerance for Multistage Interconnection Networks |
| 6 | Mr. Pankaj Kumar | 2013 | ROBUST AND FLEXIBLE IP addressing FOR MOBILE AD-HOC NETWORK |
| 7 | Mr. Deep Chandra Joshi | 2012 | BIT ERROR RATE AND SIGNAL TO NOISE RATIO improvement USING OFDM |
| 8 | Mr.Haribansh Singh | 2012 | DESIGN IMPLEMENTATION OF S-IDEA |
| 9 | Ms.Neha Chaudhry | 2012 | HYBRID INTRUSION DETECTION SYSTEM BASED ON SNORT WITH AUTOMATIC SIGNATURE GENERATION |

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|----|---------------------------|------|--|
| 10 | Mr.Jitendra Singh Rauthan | 2012 | An Efficient Routing via Cluster in Ad-hoc Network |
| 11 | Mr.Sandeep Kumar | 2012 | comparative performance localization algorithm for wireless sensor network |
| 12 | Mr.Shiv S Devedi | 2012 | Secure issue in Wimax Network |
| 13 | Anita Sethi | 2011 | Influence of Mobility Models on Spontaneous Network |
| 14 | Geetangaji | 2011 | Power Control Algorithm in WCDMA System |
| 15 | Preeti Agarwal | 2011 | A tool for self diagnosis of faults in O-O System |
| 16 | Anil Bhist | 2011 | Analysis of Dream approach for inter vehicular ad hoc network communication system |
| 17 | Sonika Bhatia | 2008 | Modeling of flat fading channel in mobile communication |
| 18 | Umesh Singh | 2008 | NOVSF Codes Influence The Performance Of WCDMA System |
| 19 | Ajit | 2008 | Performance Evaluation of DSR Routing Algorithm in MANET System |
| 20 | R K Yadava | 2007 | Dynamic adaption of DCF & PCF(Point coordination function) |

Published Paper in International Journals & International/National Conferences – 76
Published Paper in International Journals :(43)

1. Hisham Alsaghier , **Shailendra Mishra**," QoS based performance analysis of EAODV protocol in Overlay Network "" *International Journal of Computer Applications* , Volume 94 – No 9,pp1-6,May 2014 **(Impact Factor-0.83)**
2. Ashutosh Bharadwaj, **Shailendra Mishra**," Comparison of Sorting Algorithm Based on input sequences" *International Journal of Computer Applications* , Vol. 78 – No.14, pp.7-10, September 2013. **(Impact Factor-0.83)**
3. Kireet Joshi, Ramesh Chandra Belwal , **Shailendra Mishra**,"A Comparative Algorithmic Approach to Predict Probability of Fault in a Module by Indirect Coupling" *International Journal of Computer Applications* Vol.69(19):pp47-52, May 2013. **(Impact Factor-0.83)**
4. Rajendra Singh Bisht **Shailendra Mishra**,"Network Structure and Topology based Routing Techniques in Wireless Sensor Network- A survey".*International Journal of Computer Applications* Vol.74(12):pp5-10, July 2013. **(Impact Factor-0.83)**
5. Kireet Joshi, Ramesh Chandra Belwal , **Shailendra Mishra**,"An Algorithmic Approach to Predict Fault Propagation and Defects in Dependent Modules based on Coupling"*International Journal of Computer Applications*, Vol.68(12):pp40-46, April 2013, **(Impact Factor-0.83)**
6. Sharad Saxena, **Shailendra Mishra**, Mayank Singh,"Clustering Based on Node Density in Heterogeneous Under-Water Sensor Network"*I.J. Information Technology and Computer Science*, 2013, Vol 5,no 07, pp49-55, **(Impact Factor 0.42)**
7. Anil Kumar Bisht, Brajesh Kumar, **Shailendra Mishra**, Akhtar Hussain," Simulation Based Analysis of Position Based Routing Protocols in Vehicular Ad hoc Networks"*International Journal of Advances in Computer Networks and its Security*,Vol.3 ,pp195-202,2013
8. Neha, **Shailendra Mishra**,"Design and Implementation of H-IDS Using Snort, Feature Extraction, Honey pot and Rank and Reduce Alert"*International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering*,Vol. 2, Issue 2, February 2013,pp 755-760,

9. H P Singh, **Shailendra Mishra**, "Secure-International Data Encryption Algorithm". International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering ,Vol. 2, Issue 2, February 2013, pp780-792
10. Sharad, **Shailendra Mishra**, D.S. Chauhan, " A different Approach of Addressing, Energy Efficient Routing and Data Aggregation for Enhance Tree Routing "Communications in Computer and Information Science, Springer, Volume 306, 2012, pp 306-321 , ,(Impact Factor 0.71)
11. Sharad, **Shailendra Mishra**, D.S. Chauhan, "Spreading-Factor Based Addressing -Tree Protocol for Ad-Hoc Wireless Sensor Networks", IET Wireless Sensor System, Volume 2, Issue 4, December 2012, p. 369 – 376, 2012, (Impact Factor 0.73)
12. Sharad, **Shailendra Mishra**, D.S. Chauhan, "Analysis on Energy Optimized Data Collection in Tree Based Ad-Hoc Sensor Network", International Journal of Modern Education and Computer Science (IJMECS) ISSN: 2075-0161 Volume 4, Issue 3, pp 42-49, April 2012. (Impact Factor 0.42)
13. Sharad, **Shailendra Mishra**, D.S. Chauhan, "Improved NOVFS-TM based Addressing and Energy Efficient Routing in ETR Protocol", Global Journal of Computer Science & Technology (GJCST) ISSN: 0975-4350 Volume 12, Issue 6, pp 47-52, March 2012. (Impact Factor 0.656)
14. Anifa Seth, J. P. Saini, **Shailendra Mishra**, "Mobility Metrics Estimation and Categorization for SNET Protocols" International Journal of Computer Science, vol. 9, No. 3, pp. 276-282, Jan. 2012, IJCSI, (Impact Factor 0.242)
15. Aakanksha Agrawal, **Shailendra Mishra**, "Routing in All-Optical Three Stage-Clos Interconnection networks" International Journal of Computer Science and Engineering (IJCSE), Vol.1(2), 19 – 22, 2012, (Impact Factor 0.242)
16. Sachin Yadav **Shailendra Mishra** , Ranjeeta Yadav, "Analyzing the Media Streaming for QoS in Content Delivery Networks", International Journal of Computer Applications ISSN: 0975 - 8887 Vol.56(8) (2012): pp45-49, I, (Impact Factor 0.835)
17. Lal Chand Bishnoi, Dharm Singh and **Shailendra Mishra**, "Analysis and Simulation of UDP-based application for Wireless Network" Special Issue of International Journal of Computer Applications (0975 – 8887) on Wireless Communication and Mobile Networks, No.4. pp16-21 Jan. 2012, ,(Impact Factor 0.835)
18. JS Rauthan, **Shailendra Mishra** , "An improved Cluster Based Multi-hop Routing in Self-Organizing Wireless Sensor Networks" International Journal of Engineering Research & Technology (IJERT) Vol. 1 Issue 4, June – 2012, ISSN: 2278-0181
19. JS Rauthan, **Shailendra Mishra** , "An Improved Approach in Clustering Algorithm for Load Balancing in Wireless Sensor Networks "International Journal of Advanced Research in Computer Engineering & Technology Volume 1, Issue 5, July 2012 ISSN: 2278 – 1323
20. S.S. Dwivedi, **Shailendra Mishra** V.K. Mishra , "Investigation on Mobile Wimax: it's Security Issues. International Journal of Engineering Research & Technology Vol. 1 Issue 6, August – 2012 .
21. H P Singh, **Shailendra Mishra**, "Design Implementation of IDEA to S-IDEA", International Journal of Engineering Research & Technology (IJERT) Vol. 1 Issue 6, June - 2012
22. Lal Chand Bishnoi, Dharm Singh and **Shailendra Mishra**, "Simulation of Video Transmission over Wireless IP Network in Fedora Environment," Special issues on IP Multimedia Communications (1):9-14, October 2011.
23. Anuranjan Misra, Raghav Mehra, Mayank Singh, Jugnesh Kumar, and **Shailendra Mishra**, "Novel Approach to Automated Test Data Generation for AOP" International Journal of Information and Education Technology, Vol.1(2): 179-184, 2011.
24. Sharad Saxena, **Shailendra Mishra**, A. K. Sharma, D.S. Chauhan, "Efficient Power Utilization Techniques for Wireless Sensor Networks – A Survey International Journal of Computer Science and Engineering (IJCSE) February 2011, Volume 3-No. 2, pp. 905-925
25. **Shailendra Mishra**, D.S. Chauhan, "Low Complexity Scheduling Algorithm for Multiuser MIMO System" International Journal of Computer Science and Information Security (IJCSIS) (vol. 9 no. 1), Jan 2011 pp 60-67, ,(Impact Factor 0.423)
26. IF0.423. Sharad, **Shailendra Mishra**, D.S. Chauhan, "Review on Protocol based Approaches to Extend Lifetime of Wireless Sensor Networks" International Journal of Computer Applications, vol 11– no.6, pp-23-29, Dec 2010, ,(Impact Factor 0.835)
27. Mayank Singh, **Shailendra Mishra**, "Automated Generation of Test Data for Evolutionary Testing with Empirical Study Using AspectJ Programs" International Journal of Computer Science Issues, 2011, IF 0.242 Technology (IJERT) Vol. 1 Issue 4, June – 2012

28. Mayank Singh, **Shailendra Mishra**, Rajib Mall,"Accessing and Evaluating AspectJ Based Mutation Testing Tools"International Journal of Computer Applications, , Vol.31(1):33-38, October 2011, **(Impact Factor 0.835)**
29. Mayank Singh, **Shailendra Mishra**, Rajib Mall,"Extended Firm Mutation: A Cost Reduction Technique for Mutation Testing"International Journal of Computer Science Issues, Mahebourg Republic of Mauritius, 2011, , **(Impact Factor 0.242)**
30. Sharad, **Shailendra Mishra**, D.S.Chauhan,"Review on Protocol based Approaches to Extend Lifetime of Wireless Sensor Networks", International Journal of Computer Applications, vol 11– no.6, pp-23-29, Dec 2010 ISSN: 0975 – 8887, , **(Impact Factor 0.835)**
31. Annapurna Singh, **Shailendra Mishra**,"Quality of Service Analysis in Mobile ad hoc Network for TORA Protocol"CIIT International Journal of Wireless Communication, Vol 2, No 5, pp. 132-136, May 2010, **(Impact Factor 0.572)**
32. Annapurna Singh, **Shailendra Mishra**,"UDP based Analysis of Ad hoc On Demand Distance Vector Protocol in MANET CIIT International Journal of Networking and Communication, Vol 2, No. 11, pp. 449-452, Nov. 2010, , **(Impact Factor 0.572)**
33. Sachin, **Shailendra Mishra**,"Comparison between Centralized & Decentralized Overlay Networks for Media Streaming"International Journal of Computer Applications ,vol5– no.5, pp.33-36, August 2010, **(Impact Factor 0.835)**
34. Sachin Yadav **Shailendra Mishra** ,Ranjeeta Yadav,"Media Streaming using Multiple Description Coding in Overlay Networks"International Journal of Computer Science and Information Security, ijcsis ; volume 8 ; No. 4 pp.136-139; July 2010, , **(Impact Factor 0.210)**
35. Mayank Singh, **Shailendra Mishra**,"Generation of Mutation Operators for AOP" International Journal of Computer Science and Information Security. Vol. 8, Issue 9, page no 190-194, 2010, **(Impact Factor 0.423)**
36. Mayank Singh, **Shailendra Mishra**,"Generation of Mutants for Aspect Oriented Programs"International Journal of Engineering Science and Technology. Vol. 2, Issue 12, page no 7437-7443, 2010, **(3.14 IC Value)**
37. Annapurna Singh, **Shailendra Mishra**,"Performance Analysis of Reactive Routing Protocols in Mobile Ad hoc Networks"International Journal of Computer Science and Network Security, vol.10 no.8, pp 141-145, Aug. 2010
38. Mayank Singh, **Shailendra Mishra**,"Mutant Generation for Aspect Oriented Programs" Indian journal of computer science and engineering, vol 1, no. 2, pp. 409-415, Dec 2010.
39. **Shailendra Mishra**, D.S.Chauhan,"Performance Analysis of Turbo coded HSDPA systems"International Journal of Future Generation Comm. and Networking, vol 2, no.3 ,pp. 9-21,Sept 2009.
40. **Shailendra Mishra**, D.S.Chauhan,Link Level Performance of Multiple input Multiple Output (MIMO)"International Journal of Control and Automation, vol.2, No.3, pp. 29-41, Sept 2009.
41. **Shailendra Mishra**, D.S.Chauhan,Dharam Singh,"Multi-services broadband wireless networks: Beyond 3G,IMS Manthan (The Journal of Innovations), vol. 4 Issue 2, pp. 59-64, December 2009.
42. **Shailendra Mishra**, Nipur,"Performance Analysis of 3-Stage Cell Search Process in a WCDMA System"International Journal of Business Data Communications and Networking (IJBDCN), Idea Group Inc. publication USA,Vol 3,NO.3,pp.19-38,July 2007.
43. **Shailendra Mishra**, Nipur," Performance Enhancements to the WCDMA Cell Search Algorithms, Journal of Information Technology and Applications , Vol. 1 No. 2 September, 2006, pp. 59-78 2006.
44. **Shailendra Mishra**, Nipur,"Self-Tuning Adaptive Algorithm for Power Control in WCDMA Systems International Journal of Management and System(IJOMAS)Victoria Australia,Vol. 23, No. 3, pp. 281-290, 2006.

Paper Presented in International Conferences held outside India (03)

1. Vishal, **Shailendra Mishra**, Narottam Chand," Applications of VANETs: Present & Future", WiCOM 2012 ,8th International Conference on Wireless Communications, Networking and Mobile Computing,21-23 Sept, 2012,**Shanghai, China**.
2. **Shailendra Mishra**, Nipur,"Performance analysis of the 3-stage cell search process in WCDMA System" The 2007 International Conference (2007 IRMA International Conference), 19-23 May, 2007, **Vancouver, British Columbia, Canada**.
3. **Shailendra Mishra**, Nipur,"Non Blocking OVFS Codes Influence The Performance Of WCDMA System,"The 2006 World Congress in Computer Science Computer Engineering, and Applied Computing: International Conference on Communications in Computing (CIC 2006), 26-29 June, 2006, **LAS Vegas, Nevada, USA**

Published Paper in International International Conference/National Conferences Proceedings (30)

1. Sachin , **Shailendra Mishra**,"Media Streaming using Multiple Description Coding in Overlay Networks International Conference on ICIC and Advances in Intelligent System and Computing" , Nanning, China,july 28-31,2013.Proceedings of International Conference on Internet Computing and Information Communications Advances in Intelligent Systems and Computing , Volume 216, 2014, pp 381-389© **Springer India 2014**
2. Anil Kumar Bisht, Brajesh Kumar, **Shailendra Mishra**,"Efficiency Evaluation of Routing Protocols for Vehicular Ad-Hoc Networks Using City Scenario" ,2nd International Conference on Computer Communication and Informatics (ICCCI-2012), IEEE, January 10-12, 2012, pp. 571-577, Organized by Sri Shakti Institute Of Engineering and Technology, Coimbatore, Tamilnadu, India
3. Anil Kumar Bisht, **Shailendra Mishra**, Brajesh Kumar,"Effectiveness Assessment of LAR and DREAM protocols for Vehicular Communication System in city scenario",International Conference on Information Management in Knowledge Economy (IMKE-2012), July 16-17 2012, Chitkara Institute of Engineering & Technology Chitkara University, Punjab, India, Technically Co-Sponsored by Computer Society Chapter IEEE Delhi Section in association with Milwaukee school of Engineering (MSOE) , USA
4. Preeti Agarwal,**Shailendra Mishra**,"Investigation of faults in O-O Systems due to Compositional Relationships"IEEE, International Conference on Computer & Communication Technology (ICCT)-2011,15-17 Sept 2011,MNNIT ALLAHABAD
5. Mayank Singh, Pradeep Kumar Gupta, **Shailendra Mishra**,"Automated Test Data Generation for Mutation Testing Using AspectJ Programs"International Conference on Image Information processing (ICIIP -2011),Jaypee University of Information Technology, Sola, 2011,IEEE Digital Library.
6. Anil Kumar Bisht, Shiva Prakash , Brajesh Kumar, **Shailendra Mishra**,"A Survey of Routing Protocols in Vehicular Adhoc Networks"3rd International Conference On Wireless Networks & Embedded Systems WECON-2011, July 18-20, 2011, pp. 77-80, organized by Chitkara University, Punjab, India, in association with George Brown College, Canada.
7. Anil Kumar Bisht, Brajesh Kumar, **Shailendra Mishra**, Akhtar Hussain,"Simulation Based Analysis of Position Based Routing Protocols in Vehicular Ad hoc Networks",International conference on Advanced Computing, Communication and Networks-2011 in association with International Neural Network Society (INNS), India Regional Chapter organized by Universal Association Of Computer And Electronics Engineers at Chandigarh.
8. Annapurna Singh, **Shailendra Mishra**,"Simulation based Analysis of Reactive Routing Protocols in Mobile Ad hoc Networks",International Conference on Advances in Computing and Communication (ICACC-2011)NIT Hamirpur,IEEE Digital Library 08-10 April, 2011.
9. Annapurna Singh, **Shailendra Mishra**,"TCP based Analysis of Ad hoc On-Demand Distance Vector (AODV) Network Protocol"IEEE ,National Conference on Trends in Signal Processing and Communication (TSPC-2011)BIT, Muzzafarnagar,India.
10. Anuranjan Misra, Raghav Mehra, Mayank Singh, Sachin Agarwal, **Shailendra Mishra**,"Automated Generation of Test Data for Evolutionary Testing Using AspectJ Programs"International Conference on Engineering and Information Management Publisher, Procedia Engineering, Elsevier,2011.

11. Anil Bisht, Brajesh Kumar and **Shailendra Mishra**, "Analysis of OLSR and AOMDV Protocols for Vehicular Ad-hoc Networks under the City Scenario" ICRTITCS-2011, Thakur College of Science and Commerce, Thakur Village, Mumbai-101, Maharashtra, India.
12. Anuranjan Misra, Raghav Mehra, **Shailendra Mishra** Mayank Singh, Sachin Agarwal, "Automated Generation of Test Data for Evolutionary Testing Using AspectJ Programs", International Conference on Engineering and Information Management University of Electronics Science and Technology of China (UESTC), China Procedia Engineering, Elsevier, 2011.
13. Annapurna Singh, **Shailendra Mishra**, "Throughput and Delay Analysis in MANET for TORA Protocol" IEEE. International Conference on Advanced Computing and Communication Technologies (ICACCT-2010) APIIT, Panipat November 30, 2010.
14. Mayank Singh, **Shailendra Mishra**, Rajib Mall, "Software configuration Management: What and Why National seminar organized by IEI Udaipur Udaipur IE(I), 2009.
15. **Shailendra Mishra**, Nipur, "XML in a Data Warehouse Design: Performance Evaluation Utilizing Geological Data" RIT National Conference ISM Dhanbad, 2009.
16. **Shailendra Mishra**, Nipur, "Evaluating Complexities in Software Configuration Management", RIT National Conference ISM Dhanbad, 2009.
17. **Shailendra Mishra**, Nipur, Rajeeve Tripathi, Neelaksh Sheel, "Link Level Performance of MIMO HSDPA" International Conference on Information and Communication Technology (IICT-2007) DIT, Dehradun.
18. **Shailendra Mishra**, Narendra Singh, "Information and Communication Technologies for Rural Development", Indian Engineering Congress, Udaipur, IE(I), 2007.
19. Sonika Singh, **Shailendra Mishra**, Gagan Singh, "Modeling of flat fading channel in mobile communication using MATLAB" International Conference on Information and Communication Technology (IICT-2007), 26-28 July 2007, DIT, Dehradun.
20. **Shailendra Mishra**, Narendra Singh, "Information Literacy as a Catalyst for Educational Change", Indian Engineering Congress, Udaipur, IE(I), 2007.
21. **Shailendra Mishra**, Nipur, Rajeeve Tripathi, Neelaksh Sheel, "Performance Analysis of Turbo Coded HSDPA systems", International Conference on Information and Communication Technology (IICT-2007), DIT, Dehradun.
22. **Shailendra Mishra**, Nipur, "Blocking Codes Influence The Performance Of WCDMA System", ASIAN Conference on Intelligent System and Network, HEC, Haryana, India, 2006.
23. **Shailendra Mishra**, Nipur, "Adaptive PC Algorithm for WCDMA Systems", National Conference on Communication and Computational Techniques: Current and Future Trends (NCCT-2006), DIT, Dehradun, India.
24. **Shailendra Mishra**, Nipur, Gulab Singh, "Frequency Division Duplex (FDD) Downlink Physical Layer of 3rd Generation WCDMA System", National Conference on Trends of Computational Techniques in Engineering (NCTCTE-2004), SHSL – CIET, Punjab, India.
25. **Shailendra Mishra**, Nipur, Gulab Singh, "SIR, BER Approximation Influence on DSCDMA System Performance", National Conference on Trends of Computational Techniques in Engineering (NCTCTE-2004), SHSL – CIET, Punjab, India.
26. **Shailendra Mishra**, Nipur, "Orthogonal Codes and Factor Influence: The Performance of WCDMA System", National Conference on RPIT SHSL – CIET, Punjab, 2004.
27. **Shailendra Mishra**, Nipur, "Design Issues for More Cost Effective Data Link Layer in Wireless Sensor Network", National Conference on Energy Management NITTR, Chandigarh, 2004.
28. **Shailendra Mishra**, Nipur, "Cell Search Design Influence on WCDMA System Performance" National Conference on AI and Networking HEC, Haryana, India, 2004.
29. **Shailendra Mishra**, Nipur, "Performance Analysis of Third Generation WCDMA System", IETE National Conference on Emerging Trends in Networking and Mobile Communication (NSNM-2003 PEC, Chandigarh, India).
30. **Shailendra Mishra**, Nipur, "Performance Analysis of Asynchronous DS-CDMA Rake Receiver", IETE National Conference on Emerging Trends in Networking and Mobile Communication (NSNM-2003), PEC, Chandigarh, India

Book Published

| S.No. | Name of Book | Year of Publication | Name of Publisher | Co-authors (if any) |
|-------|---|---------------------|---------------------------|---------------------|
| 1 | Hand Book of Research in Mobile business: OCQPSK Spreading for 3rd Generation WCDMA System | 2006 | IDEA Group Publishing USA | Nipur |
| 2 | Hand Book of Research in Mobile business: Code & Time Synchronization of The Cell Search Design Influence on WCDMA System Performance | 2006 | IDEA Group Publishing USA | - |
| 3 | Data Communication and Computer Network, (First edition 2003, second edition 2004, third edition 2006) | 2003 | Pragati Prakashan, India | - |
| 4 | Hand Book of Master of Computer Application III, (First edition 2005, second edition 2006) Six Chapter | 2005 | Pragati Prakashan, India | - |

Future Research proposal to be under taken:

MY research has been in the field of ICT, Mobile Computing, Computer Network Architecture and Software Engineering. I handled many courses like Data Communication & Computer Networks, Advanced Network Architecture, Cryptography and Networks Security, Mobile Computing, Distributed Computing, Software Engineering, Software Project Management, Advance Computer Architecture, Database Management System at UG and PG Levels during last five year. I handled many research projects during the last 5 years that are sponsored and funded by Oil Natural Gas Commission (ONGC), New Delhi, India, Department of Science and Technology (DST), Govt. of Uttarakhand, India and AICTE New Delhi, etc

Proposed Research Plan

- **Performance Evaluation of Overlay Network for Streaming Media Distribution**
- **Energy Efficient Communication Protocol for Ad-Hoc Sensor Network**