



Sachin Tripathi

Associate Professor

Curriculum Vitae

Goal

"Gain fundamental experience in my area of interest and expertise."

Affiliation and Contacts

Department of Computer Science & Engineering
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Divya Nagar, Near MMMEC, Gorakhpur, U.P., 09415213120(M)

Education

- 2011 **Ph.D.** Department of Computer Science and Engineering, Indian Institute of Technology (Indian School of Mines), Dhanbad, Jharkhand-826 004, India.
- 2003-2005 **M-Tech.** Specialization in Computer Application, Department of Computer Science and Engineering, Indian Institute of Technology (Indian School of Mines), Dhanbad, Jharkhand-826 004, India.
- 1999-2003 **B-Tech.** Department of Computer Science and Engineering, CSJM, Kanpur University, Uttar Pradesh-208024, India.

Administrative Experiences

- (1) *Worked as Departmental Faculty In-Charge (Time Table).*
- (2) *Worked as Departmental Faculty In-Charge (Training & Placements).*
- (3) *Worked as Departmental Faculty In-Charge (Website).*
- (4) *Worked as a warden of IIT(ISM) hostel from Apr-2010 to Dec-2014.*

Teaching Experiences

- 27-Jul-2005 **Lecturer** *Haldia Institute of Technology, Haldia, West Bengal, India.*
to
20-Nov-2005
- 21-Nov-2005 **Lecturer** *Indian Institute of Technology (Indian School of Mines).*
to
31-Dec-2005
- 01-Jan-2006 **Assistant Professor** *Indian Institute of Technology (Indian School of Mines).*
to
18-May-2017
- 19-May-2017- **Associate Professor** *Indian Institute of Technology (Indian School of Mines).*
Present

Abroad Visit

- 2008 Las Vegas, USA to attend and present paper in conference.
2012 London, UK to attend and present paper in conference.

Subjects Taught

- From last 11 years
- (1) Computer Organization (UG).
 - (2) Programming Language Concepts (UG).
 - (3) Switching & Finite State Machines (UG).
 - (4) Advance Algorithm (UG).
 - (5) Artificial Intelligence (UG & PG).
 - (6) Data Structures (PG).
 - (7) Assembly Programming (PG).
 - (8) Digital Circuits & Computer Organization (PG).
 - (9) Cryptography and Network Security (PG).
 - (10) Advance Data Structure and Algorithm (PG).
 - (11) Advance Computer Network (PG).
 - (12) Advance Artificial Intelligence (PG).

Research Interest

- At Present
- (1) Group-ware Communication Security.
 - (2) Ad-hoc & Sensor Network.
 - (3) Vehicular Ad-hoc Network.
 - (4) Cryptography.
 - (5) Artificial Intelligence.

Project Supervised

- Till now
- (1) B-Tech 30.

(2) M-Tech 20.

Research Projects

- Completed (1) Name of the sponsor agency: UGC, Title: Design of Group Key Generation Protocol and its Application for Secure Multi-cast.
- Ongoing (2) Name of the sponsor agency: DST, Title: Design of Reliable and energy Efficient Protocols for Adhoc and Sensor Networks.
- (3) Information Security Education and Awareness (ISEA) Project Phase-II, Ministry of Communications and Information Technology.

Member of Professional Body

IEEE.

Professional Activities

- Finance Chair (1) 3rd IEEE International Conference on "Recent Advances in Information Technology (RAIT-2016)" at Indian Institute of Technology (Indian School of Mines), Dhanbad during 03-05 March 2016.
- (2) 2nd IEEE International Conference on "Recent Advances in Information Technology (RAIT-2014)" at Indian Institute of Technology (Indian School of Mines), Dhanbad during 13-14 March 2014.
- (3) 1st IEEE International Conference on "Recent Advances on Information Technology (RAIT-2012)", at Indian Institute of Technology (Indian School of Mines), Dhanbad during 15-17 March, 2012.
- (4) National Seminar on "Recent Advances on Information Technology (RAIT-2009)" at Indian Institute of Technology (Indian School of Mines), Dhanbad during 6- 7 February 2009.
- (5) National Seminar on "Recent Advances on Information Technology (RAIT-2007)" at Indian Institute of Technology (Indian School of Mines), Dhanbad during 26-27 February, 2007.

Organized International Conference/GIAN and Short-Term Courses/Workshops

- International Conference (1) 4th IEEE International Conference on Recent Advances in Information Technology (RAIT-2018) during 15-17 March 2018).
- GIAN Course (1) Security of e-Systems and Networks, February 10-14, 2018 (Speaker: Prof. Mohammad S. Obaidat from University of Jordan).
- Short-Term Course (1) Coding Theory and Cryptography: Fundamentals and Applications at Indian Institute of Technology (Indian School of Mines), Dhanbad during 13-17 December, 2017.

- (2) Hands-on Session on MONOSEK-Real Time Network Packet Processing & Network Session Analysis at Indian Institute of Technology (Indian School of Mines), Dhanbad during 14-18 September, 2016.
- (3) Advanced Data Structures with their Applications Indian Institute of Technology (Indian School of Mines), Dhanbad during 01-05 October, 2015.
- Workshop (1) Communications and Multimedia Security, organized by Department of Computer Science and Engineering, Indian Institute of Technology (Indian School of Mines) Dhanbad-826004, Jharkhand, India, sponsored by Information Security Education and Awareness (ISEA) Project Phase-II MeitY, Government of India, 09-10 February, 2017.
- (2) Information and Cyber Security, Jointly Organized by Indian Institute of Technology (Indian School of Mines), Dhanbad and C-DAC, Kolkata Sponsored by Information Security Education and Awareness (ISEA) Project Phase-II, DeitY, Government of Indian, 28-30 January, 2016.

Full-Time Research Scholars

- Awarded (1) **Abhimanyu Kumar**, Thesis title: Some Group Key Agreement Protocols using Elliptic Curve Cryptography.
- (2) **Ajay Kumar Yadav**, Thesis title: Study and Development of Multicasting Routing Protocols for Wireless Ad-Hoc Networks.
- (3) **Tapas Kumar Mishra**, Thesis title: Design of Reliable and Energy-Efficient Protocols for Ad-Hoc Networks.
- Submitted (4) **Santosh Kumar Das**, Thesis title: Development of Energy Efficient Routing Protocols for Ad-Hoc Network using Artificial Intelligence Techniques.
- (5) **Rajesh Purkait**, Thesis title: Study and Development of Intelligent Routing Protocols.
- Ongoing (6) **Mahendra Prasad**, Thesis title: Design of Intelligent Security Mechanism for Ad-hoc Networks.
- (7) **Amitesh Kumar Pandit**, Thesis title: Design of Enhanced Security Mechanism for Ad-hoc and Sensor Network.

Part-Time Research Scholars

- Ongoing (1) **Abu Salem**, Thesis title: Security in Cloud Computing.
- (2) **Kamlesh Kumar Rana**, Thesis title: Study and Development of Routing Protocols in Vehicular Ad-hoc Networks.
- (3) **Jeevan Kumar**, Thesis title: Study and Development of Routing Protocols for Wireless Sensor Networks using Swarm Intelligence.
- (4) **Arvind Kumar**, Thesis title: Efficient Healthcare Monitoring using Vehicular Ad-hoc Network.
- (5) **Vikas Srivastava**, Thesis title: Study and Development of Congestion Control Mechanisms for Wireless Sensor Network.

(6) **Surendra Singh**, Thesis title: Secure Real Time Packet Transmission through Dynamic Scheduling in Wireless Networks.

(7) **Ranjit Kumar**, Thesis title: Energy Efficient Routing Protocol for Secure Wireless Sensor Network.

Full-Time Research Scholars under Project

Submitted (1) **Priyanka Jaiswal**, Thesis title: Study and Design of Group Key Establishment Protocols, Project Sponser: University Grants Commission.

Ongoing (2) **Pankaj Pal**, Thesis title: Design of Reliable and Energy Efficient Transport Layer Protocols for Ad-hoc and Sensor Network, Project Sponser: Department of Science and Technology.

Book Published

August 26, 2011 Sachin Tripathi and G.P.Biswas, "*Enhancements on Internet Applications: Multicast, Secure E-mail Messaging and E-Business*", LAP Lambert Academic Publishing (2011-08-26).

International Journals

2018 (1) Santosh Kumar Das and Sachin Tripathi, "*Energy Efficient Routing Formation Algorithm for Hybrid Ad-hoc Network: A Geometric Programming Approach*", Peer-to-Peer Networking and Applications, Springer, <https://doi.org/10.1007/s12083-018-0643-3>, 2018, pp. 1-27, Impact Factor-1.262.

(2) Rajesh Purkait and Sachin Tripathi, "*Network Condition and Application based Data Adaptive Intelligent Message Routing in Vehicular Network*", International Journal of Communication Systems, Wiley, 10 March 2018, Volume 31, Issue 4, **SCI**, Impact Factor-1.066..

(3) Kamlesh Kumar Rana, Sachin Tripathi, Ram Shringar Raw, "*Analytical Analysis of Improved Directional Location Added Routing Protocol for VANETS*", Wireless Personal Communications, Springer, 1 January 2018, Volume 98, Issue 2, pp. 2403-2426, **SCI**, Impact Factor-0.951.

(4) Priyanka Jaiswal, Sachin Tripathi, "*Cryptanalysis of Olimid's Group Key Transfer Protocol Based on Secret Sharing*", Journal of Information and Optimization Sciences, Taylor & Francis, 11 April 2018, pp. 1-19, **ESCI**.

2017 (5) Santosh Kumar Das and Sachin Tripathi, "*Adaptive and Intelligent Energy Efficient Routing for Transparent Heterogeneous Ad-hoc Network by Fusion of Game Theory and Linear Programming*", Applied Intelligence, Springer, DOI 10.1007/s10489-017-1061-6, September 2017, **SCI**, Impact Factor-1.904.

- (6) Ranjit Kumar, Sachin Tripathi and Rajeev Agrawal, "Energy Efficient Routing Protocol for Secure Wireless Sensor Network", International Journal of Computer Science and Engineering, April 2017, Volume 5, Issue 4.
- (7) Tapas Kumar Mishra and Sachin Tripathi, "Design of Per-Flow Fairness Protocol with Dynamic Priority for Ad Hoc Networks", Wireless Personal Communications, Springer, DOI:doi.org/10.1007/s11277-017-4398-6, October 2017, Volume 96, Issue 3, pp. 4485-4503, **SCI**, Impact Factor-0.951.
- (8) Santosh Kumar Das and Sachin Tripathi, "Energy Efficient Routing Formation Technique for Hybrid Ad-Hoc Network using Fusion of Artificial Intelligence Techniques", International Journal of Communication Systems, Wiley, DOI:10.1002/dac.3340, 10 November 2017, Volume 30, Issue 16, **SCI**, Impact Factor-1.066.
- (9) Soumen Nayak, Chiranjeev Kumar and Sachin Tripathi, "Enhancing Efficiency of the Test Case Prioritization Technique by Improving the Rate of Fault Detection", Arabian Journal for Science and Engineering, Springer, DOI: 10.1007/s13369-017-2466-6, August 2017, Volume 42, Issue 8, pp. 3307-3323, **SCI**, Impact Factor-0.865.
- (10) Ajay Kumar Yadav, Santosh Kumar Das and Sachin Tripathi, "EFMMRP: Design of Efficient Fuzzy based Multi-Constraint Multicast Routing Protocol for Wireless Ad-hoc Network", Computer Networks, Elsevier, Vol. 118, pp. 15-23, May 2017, **SCI**, Impact Factor-2.516..
- 2016 (11) Santosh Kumar Das, Ajay Kumar Yadav and Sachin Tripathi, "IE2M: Design of Intellectual Energy Efficient Multicast Routing Protocol for Ad-hoc network", Peer-to-Peer Networking and Applications, Springer, Vol. 10, No. 3, pp. 670-687, May 2017, **SCI**, Impact Factor-1.262..
- (12) Santosh Kumar Das and Sachin Tripathi, "Intelligent Energy-aware Efficient Routing for MANET", Wireless Networks, Springer, DOI 10.1007/s11276-016-1388-7, **SCI**, Impact Factor-1.584.
- (13) Tapas Kumar Mishra and Sachin Tripathi, "Congestion control and fairness with dynamic priority for ad-hoc networks", International Journal of Ad Hoc and Ubiquitous Computing, Inderscience, **SCI**, Impact Factor- 0.489.
- (14) Rajesh Purkait and Sachin Tripathi, "Energy Aware Fuzzy Based Multi-Hop Routing Protocol Using Unequal Clustering", Wireless Personal Communications, Springer, Vol-94, No-3, pp. 809-833, June 2017, **SCI**, Impact Factor-0.951.
- (15) Tapas Kumar Mishra and Sachin Tripathi, "Buffer Aware Medium Access Control: A Cross Layer Approach", Wireless Personal Communications, Springer, Vol-91, No-2, pp. 525-539, Nov 2016, **SCI**, Impact Factor-0.951.
- (16) Jeevan Kumar, Sachin Tripathi and Rajesh Kumar Tiwari, "A Survey on Routing Protocols for Wireless Sensor Networks using Swarm Intelligence", 2016, International Journal of Internet Technology and Secured Transactions, Vol-6, No-2, pp. 79-102, Inderscience Publishers.

- (17) Ajay Kumar Yadav and Sachin Tripathi, "QMRPRNS: Design of QoS multicast routing protocol using reliable node selection scheme for MANETs", 27-Feb-2016, Peer-to-Peer Networking and Applications, pp. 1-13, Springer, Vol-10, No-4, pp. 897-909, July 2017, **SCI**, Impact Factor-1.262.
- (18) Priyanka Jaiswal and Sachin Tripathi, "An authenticated group key transfer protocol using elliptic curve cryptography", 10-Feb-2016, Peer-to-Peer Networking and Applications, pp. 1-8, Springer, Vol-10, No-4, pp. 857-864, July 2017, **SCI**, Impact Factor-1.262.
- (19) Abhimanyu Kumar and Sachin Tripathi, "Anonymous ID-based group key agreement protocol without pairing", Mar-2016, International Journal of Network Security", Vol-18, No-2, pp. 263-273, Scopus, Impact Factor-1.43.
- (20) Priyanka Jaiswal and Sachin Tripathi, "Cryptanalysis and Improvement of Group Key Transfer Protocol based on Secret Sharing", International Journal of Computer Science and Information Security, Vol-14, No-8, 2016, Thomson, Reuters, Impact Factor-0.553.
- (21) Abu Salim, Rajesh Kumar Tiwari and Sachin Tripathi, "Secure Sharing of Data in the Cloud Computing Using Proxy Re-Encryption and CP-ABE", International Journal of Computer Engineering & Applications, 2016.
- 2015 (22) Ajay Kumar Yadav and Sachin Tripathi, "DLBMRP: Design of Load Balanced Multicast Routing Protocol for Wireless Mobile Ad-hoc Network", July 2015, Wireless Personal Communications, Vol-85, No-4, pp. 1815-1829, Springer, **SCI**, Impact Factor-0.951.
- 2014 (23) Abhimanyu Kumar and Sachin Tripathi, "A Pairing Free Anonymous Certificate less Group Key Agreement Protocol for Dynamic Group", Dec-2014, Wireless Personal Communications, Vol-82, No-2, pp. 1027-1045, Springer, **SCI**, Impact Factor-0.951.
- (24) Abu Salim , Sachin Tripathi and Rajesh Kumar Tiwari, "Secure and Timestamp Based Communication Scheme in Cloud Environment", International Journal of Electronics Security and Digital Forensics, Vol-6, No-4, pp. 319-332.
- (25) Arpita Sarkar and Sachin Tripathi, "Design of Dual Signature Scheme using ECDSA in SET Protocol", Feb-2014, International Journal of Computer Applications, Vol-88, No-11, Foundation of Computer Science, Impact Factor-0.79.
- (26) Abhimanyu Kumar and Sachin Tripathi, "Ternary Tree based Group Key Agreement Protocol Over Elliptic Curve for Dynamic Group", Jan-2014, International Journal of Computer Applications, Vol-86, No-7, Foundation of Computer Science, Impact Factor-0.79.
- 2013 (27) Abu Salim, Rajesh Kumar Tiwari and Sachin Tripathi, "Addressing Security Challenges in Cloud Computing", Apr-2013, International Journal of Computer Engineering and Applications, Vol-2, No-2, pp. 1-13.
- 2012 (28) Arpita Sarkar and Sachin Tripathi, "Removal of certificates from SET protocol using certificate less public key cryptography", Nov-2012, International Journal of Network Security & Its Applications, Vol-4, No-6, pp. 157-172.

- 2010 **(29)** Sachin Tripathi, Rajat Goyal and Amit Kumar Pathak, "*Modified Scheme To Prevent NACK Implosion in MTP/SO: Self Organizing Multicast Transport Protocol*", June-2010, International Journal of Advance Computer Engineering, Vol-3, No-1, pp. 7-11.
- (30)** Sachin Tripathi and G.P.Biswas, "*Secure E-Mail Messaging to Selected Group Members Using PGP Technique*", Feb-2010, International Journal of Computer Application, Vol-1, No-10, pp. 76-80, Foundation of Computer Science, Impact Factor-0.79.

International Conferences

- 2017 **(1)** Surendra Singh, Sachin Tripathi, Suvadip Batabyal, "*Utilization Based Secured Dynamic Scheduling Algorithm for Real-Time Applications on Grid (U-SDSA)*", IEEE 31st International Conference on Advanced Information Networking and Applications (AINA), 27 March 2017, pp. 606-613.
- 2016 **(2)** Surendra Singh, Sachin Tripathi, Suvadip Batabyal, "*Secured Dynamic Scheduling Algorithm for Real-Time Applications on Grid*", International Conference on Information Systems Security, Springer, 16 December 2016, pp. 283-300.
- (3)** Jeevan Kumar, Sachin Tripathi and Rajesh Kumar Tiwari, "*Routing Protocol for Wireless sensor networks Using Swarm intelligence- ACO with ECP SOA*", 2016, International Conference on Information Technology, IEEE.
- (4)** Sudha Shanker Prasad, Jitendra Kumar, Dinesh Kumar Prabhakar, and Sachin Tripathi, "*Sentiment Mining: An approach for Bengali and Tamil Tweets*", Proceedings of Ninth International Conference on Contemporary Computing (IC3), IEEE, 2016.
- (5)** Kamlesh Rana, Sachin Tripathi and Ram Shringar Raw, "*Analysis of expected delay of LAR protocol for VANETs*", Proceedings of 3rd International Conference on Computing for Sustainable Global Development (INDIACom), IEEE, 2016.
- (6)** Rajesh Purkait and Sachin Tripathi, "*Network condition and application based vehicular ad-hoc network*", Proceedings of Fifth International Conference on Computing, Communications and Informatics (ICACCI-2016), IEEE, 2016, Jaipur, Rajasthan-302031, India.
- (7)** Santosh Kumar Das and Sachin Tripathi, "*Energy Efficient Routing Protocol for MANET Using Vague Set*", Proceedings of Fifth International Conference on Soft Computing for Problem Solving, Springer, 2016, pp. 235-245, IIT Roorkee, SAHARANPUR-247001, U.P.
- (8)** Tapas Kumar Mishra and Sachin Tripathi, "*Node Application and Time based Fairness in Ad-Hoc Networks: An Integrated Approach*", Proceedings of 3rd International Conference on Advanced Computing, Networking and Informatics, Springer, 2016, pp. 231-238, Bhubaneswar, India.
- (9)** Ajay Kumar Yadav and Sachin Tripathi, "*A Tree Based Multicast Routing Protocol Using Reliable Neighbor Node for Wireless Mobile Ad-Hoc Networks*", Proceedings of the 4th International Conference on Frontiers in Intelligent Computing: Theory and Applications (FICTA) 2015, Springer, 2016, pp. 455-465, NIT Durgapur, India.

- (10) Ajay Kumar Yadav and Sachin Tripathi, "*Design of efficient multicast routing protocol using limited flooding mechanism*", Proceedings of the International Conference on Microelectronics, Computing and Communications (MicroCom), IEEE, 2016, pp. 1-6, NIT Durgapur, India.
- (11) Soumen Nayak, Chiranjeev Kumar and Sachin Tripathi, "*Effectiveness of prioritization of test cases based on Faults*", Proceedings of the Recent Advances in Information Technology (RAIT-2016), IEEE, 2016, IIT(ISM), Dhanbad, India.
- 2015 (12) Priyanka Jaiswal, Abhimanyu Kumar and Sachin Tripathi, "*Design of Queue-Based Group Key Agreement Protocol Using Elliptic Curve Cryptography*", Proceedings of Second International Conference on Information systems Design and Intelligent Applications (INDIA - 2015), Springer, 2015, pp. 167-176, University of Kalyani, Kalyani-741235, West Bengal, India.
- (13) Santosh Kumar Das and Sachin Tripathi, "*Energy efficient routing protocol for manet based on vague set measurement technique*", Proceedings of Second International Symposium on Computer Vision and the Internet (VisionNet-15), Procedia Computer Science, Elsevier, Scopus and by Thomson Reuters, 2015, pp. 348-355, SCMS Group of Institutions, Kerala-682024, India.
- (14) Tapas Kumar Mishra and Sachin Tripathi, "*Explicit Throughput and Buffer Notification based congestion control: A cross layer approach*", Proceedings of Eighth International Conference on Contemporary Computing (IC3), IEEE, 2015, pp. 493-497, Jaypee Institute of Information Technology (JIIT), Noida-201309, India.
- (15) Abhimanyu Kumar, Sachin Tripathi and Priyanka Jaiswal, "*Design of efficient ID-based group key agreement protocol suited for Pay-TV application*", Proceedings of 4th International Conference on Advances in Computing, Communications and Informatics (ICACCI), IEEE, 2015, pp. 1940-1944, SCMS Group of Institutions, Kerala-682024, India.
- (16) Santosh Kumar Das and Sachin Tripathi, "*Fuzzy based energy efficient multicast routing for ad-hoc network*", Proceedings of International conference on Computer, Communication, Control and Information Technology, IEEE, Feb 07-08, 2015, pp. 01-05, Adisaptagram, Hooghly-712121, West Bengal, India.
- (17) Santosh Kumar Das and Sachin Tripathi, "*Design of fuzzy based intelligent energy efficient routing protocol for WANET*", Proceedings of International conference on Computer, Communication, Control and Information Technology, IEEE, Feb 07-08, 2015, pp. 01-04, Adisaptagram, Hooghly-712121, West Bengal, India.
- (18) Ajay Kumar Yadav and Sachin Tripathi, "*Load balanced multicast routing protocol for wireless mobile ad-hoc network*", Proceedings of International conference on Computer, Communication, Control and Information Technology, IEEE, Feb 07-08, 2015, pp. 01-06, Adisaptagram, Hooghly-712121, West Bengal, India.
- (19) Santosh Kumar Das and Sachin Tripathi, "*Intelligent energy competency multipath routing in WANET*", Proceedings of Second International Conference on Information systems Design and Intelligent Applications (INDIA - 2015), Springer, 2015, pp. 535-543, University of Kalyani, Kalyani-741235, West Bengal, India.

- (20) Rajesh Purkait and Sachin Tripathi, "Fuzzy based unequal energy aware clustering with multi-hop routing in wireless sensor network", Proceedings of IEEE Workshop on Computational Intelligence: Theories, Applications and Future Directions (IEEE WCI 2015), IEEE, Dec 14-17, 2015, pp. 01-10, IIT Kanpur, India.
- (21) Tapas Kumar Mishra and Sachin Tripathi, "Integrated FRTCP: Fair and Reliable Transmission Control Protocol for Ad Hoc Networks", Proceedings of Fifth International Conference on Communication Systems and Network Technologies (CSNT-2015), IEEE.
- 2014 (22) Abhimanyu Kumar, Sachin Tripathi and Priyanka Jaiswal, "A pairing free certificateless group key agreement protocol with constant round", Proceedings of ICACNI-2014, Published in Smart Innovation, Systems and Technologies, Springer, Vol-2, June 24-26, 2014, pp. 341-349, Kolkata, W.B., India.
- (23) Tapas Kumar Mishra and Sachin Tripathi, "Fair and Reliable Transmission Control Protocol for Adhoc Networks", Proceedings of 4th International Conference on Advances in Computing and Communications (ICACC-2014), IEEE, August 2014, pp. 339-342, Kochi, Kerala, India.
- (24) Priyanka Jaiswal, Abhimanyu Kumar and Sachin Tripathi, "Design of secure group key agreement protocol using elliptic curve cryptography", Proceedings of International Conference on High Performance Computing and Applications (ICHPCA), 2014, IEEE, pp. 01-06.
- 2012 (25) Tanmay Ghorai and Sachin Tripathi, "Ternary Tree Based Group Key Generation using Elliptic Curve DiffieHellmann", Proceedings of International Conference on Recent Trends in Communication Engineering and Network Technologies, 03-04 December 2012.
- (26) Sumitra Kisan and Sachin Tripathi, "Removal of Digital Envelopes in SET Protocol using Diffie Hellmann Key Exchange Algorithm", Proceedings of the World Congress on Engineering, Vol-1, 04-06 July 2012, London, U.K.
- 2011 (27) Sachin Tripathi, G.P.Biswas and Sumitra Kisan, "Cryptographic keys Generation using Identity", Proceedings of 3rd International conference on Advances in Recent Technologies in Communication and Computing(ARTCOM), 14-15 Sep. 2011, pp. 148-151, Bangalore,India.
- 2009 (28) Sachin Tripathi and G.P.Biswas, "Design of an Efficient Ternary Tree Based Group Key Agreement Protocol For Dynamic Groups", Proceedings of First International Communication Systems and Networks and Workshops, IEEE, Jan-2009, pp. 01-06, Bangalore,India.
- (29) Sachin Tripathi and G.P.Biswas, "An Authentication Scheme for Group and Channel Based IP Multicasting", Proceedings of IEEE International Advance Computing Conference (IACC-2009), IEEE, March 2009, pp. 1354-1358, Patiala, India.
- 2008 (30) Sachin Tripathi and G.P.Biswas, "Modification of Channel Based IP Multicasting to Support Many to Many Communications", Proceedings of International Conference on Internet Computing (ICOMP-08), July 2008, pp. 195-199, Las Vegas, Nevada, USA.

- 2007 **(31)** Sachin Tripathi and Amit Anand, "*Minimization of Forwarding Information Base Memory Cost in EXPRESS support*", Proceeding of 2nd International Conference on Advance Computing & Communication Technologies (ICACCT-2007), November 2007, pp. 91-93, Panipat, India.
- (32)** Sachin Tripathi and Ravi Shankar Prasad Gupta, "*Enhancement of Multicast Transport Protocol for Improved Reliability*", Proceeding of 2nd International Conference on Advance Computing & Communication Technologies (ICACCT-2007), November 2007, pp. 94-98, Panipat, India.

National Conferences

- 2007 **(1)** Sachin Tripathi and Koteswararao Kondepu, "*Hybrid Model for Prediction of Longevity of IPv4 Address Space*", Proceeding of National Seminar on Recent Advances on Information Technology (RAIT-2007), February 2007, pp. 98-103, ISM, Dhanbad, Jharkhand-826 004, India..
- 2006 **(2)** Sachin Tripathi and G.P.Biswas and A. Chattopadhyay, "*Internet Standard Multicasting: Its Development & Application*", Proceedings of National Seminar on Advances in Computer and Information Technology (ACIT-2006), March 2006, pp. 32.