




University Faculty Details Page on DU Web-site

Title	Prof.	First Name	Punam	Last Name	Bedi	Photograph
Designation		Professor, Department of Computer Science Offg. Director, Delhi University Computer Centre				
Address		Department of Computer Science, University of Delhi, Delhi – 110007				
Phone No	Office	+91-11-27667138, 91-11-27667059, 91-11-27667591				
Residence						
Mobile		+919899125785				
Email		director@ducc.du.ac.in ; pbedi@cs.du.ac.in ; punambedi@gmail.com				
Web-Page		http://people.du.ac.in/~pbedi/				
Educational Qualification						
Degree		Institution			Year	
Ph.D.		Ph.D., Department of Computer Science, University of Delhi.			1999	
M.Phil. / M.Tech.		M.Tech. (Computer Science), Indian Institute of Technology Delhi.			1986	
PG		M.Sc. (Mathematics), Indian Institute of Technology Delhi.			1984	
UG		B.Sc. (Mathematics), Miranda House, University of Delhi.			1982	
Any other qualification						
Career Profile						
<p>14th March, 2017 – till date: Professor, Department of Computer Science, University of Delhi, India.</p> <p>17th January, 2002 – 13th March, 2007: Associate Professor / Reader, Department of Computer Science, University of Delhi, India.</p> <p>14th March, 1999 - 16th January, 2002: Reader, Deshbandhu College, Department of Computer Science, University of Delhi, India.</p> <p>1st January, 1987- 13th March, 1999: Lecturer / Sr. Lecturer/ Lecturer (Reader's Grade), Department of Computer Science, Deshbandhu College, University of Delhi, India.</p>						

Administrative Assignments
<p>20th Oct., 2017 – till date : Officiating Director, Delhi University Computer Centre.</p> <p>26th June, 2009- 23rd Oct. 2009: Acting Director, Delhi University Computer Centre, University of Delhi.</p> <p>21st Oct. 2005 – 20th Oct. 2008: Head, Department of Computer Science, University of Delhi.</p>
Area of Interests / Specialization
<p>Artificial Intelligence, Web Intelligence, Semantic Web, Intelligent Information Systems, Intelligent Software Engineering, Intelligent Agents, Intelligent User Interfaces, Fuzzy Logic, Genetic Algorithms, Knowledge Representation, Ontologies, Software Engineering , Software Reliability, Requirement Engineering, Trust, Information Retrieval, Personalization, Steganography, Steganalysis</p>
Subject Taught
<p>Undergraduate Programming Fundamentals, Data Structures, Operating Systems, Computer Networks, Software Engineering, Data Base Systems, Computer System Architecture.</p> <p>Postgraduate Artificial Intelligence, Software engineering, Computer System Architecture, Data Structures and File processing, Decision Making using Multi-agent systems, Special Topics in Artificial Intelligence (Multi-agent systems), Neural Networks, Data Communication and Computer Networks, Numerical Computing, Digital Image Processing.</p>
Research Guidance
<p><i>Supervision of awarded doctoral dissertations</i></p> <p>Banati, Hema. 2006. Determining web usability – A pragmatic approach. University of Delhi.</p> <p>Harmeet Kaur. 2007. Trust based decentralized recommender systems. University of Delhi.</p> <p>Gaur, Vibha. 2008. Refining quality requirements to meet users’ expectations. University of Delhi.</p> <p>Marwaha, Sudeep. 2008. Temporal extension to ontologies for semantic web enabled systems. University of Delhi.</p> <p>Chawla, Suruchi. 2011. Information Retrieval using Information Scent and Agents, University of Delhi.</p> <p>Sharma, Ravish. 2012. Recommending Solutions for Complex Systems based on Ant Colony Metaphor. University of Delhi.</p> <p>Thukral, Anjali. 2013. Retrieving and Organizing Web Resources Semantically for Informal e-Mentoring. University of Delhi (Supervisors: Dr. Punam Bedi and Dr. Hema Banati).</p>

Bansal, Roli. 2013. Computationally Intelligent Watermarking for Securing Fingerprint Images. University of Delhi (Supervisors: Dr. Punam Bedi and Dr. Priti Sehgal).

Sharma, Richa. 2013. Adaptive Content Sequencing Incorporating Social Opinion in an e-Learning Environment. University of Delhi (Supervisors: Dr. Punam Bedi and Dr. Hema Banati).

Vats, Aakanksha. 2014. Mobile Process Groups based Trustworthy Coordination in Ad-hoc Network. University of Delhi.

Gupta, Bhavna. 2014. Trust-based Multiagent Service Recommender System. University of Delhi (Supervisors: Dr. Punam Bedi and Dr. Harmeet Kaur).

Vasishtha, Pooja. 2014. Trust and Argumentation based Recommender Systems. University of Delhi.

Agrawal, Sumit. 2014. Context-Aware Trust Based Mobile Recommender System. University of Delhi.

Supervision of Doctoral Dissertations, Thesis submitted

Gautam, Anjali. Matrix Factorization Based Recommender System for Large-Scale Data. University of Delhi

Supervision of doctoral dissertations, under progress

Bhasin, Veenu. Information Hiding. University of Delhi (Date of Registration Feb. 2012).

Jindal Vinita. Artificial Intelligence. University of Delhi (Date of Registration June 2013).

Chhavi Sharma, Artificial Intelligence. University of Delhi (Date of Registration Oct 2013).

Richa, Artificial Intelligence. University of Delhi (Date of Registration Dec 2013).

Singhal, Anuradha, Information Hiding. University of Delhi (Date of Registration June 2014).

Taneja, S. B., Artificial Intelligence. University of Delhi (Date of Registration Oct 2015).

Khurana, Purnima, ***Artificial Intelligence***. University of Delhi (Date of Registration Oct 2017).

Publications Profile

Book Chapters

Bedi, Punam, Vandana Gandotra and Archana Singhal. (2013). Innovative Strategies for Secure Software Development, Chapter 13, in Designing, Engineering, and Analyzing Reliable and Efficient Software: 217-237. IGI-Global.

Bedi, Punam and Sumit Kr, Agarwal. (2013). Aspect-Oriented Recommender System, Chapter 4 in Designing, Engineering, and Analyzing Reliable and Efficient Software: 55-72. IGI-Global.

Bedi, Punam, Roli Bansal and Priti Sehgal (2014). Securing Biometrics using Watermarking, Chapter 4 Research Developments in Biometrics and Video Processing Techniques:65-89, IGI Global.

Bedi, Punam and Pooja Vashisth. (2013). Using Trust and Argumentation in Multi-Agent Recommender Systems. Chapter 14 in Managing Trust in Cyberspace :315-338. CRC Press, Taylor & Francis Group .

Aakansha and Punam Bedi. (2013). Trustworthy Group Coordination in Ad-hoc Networks. Chapter 6 in Managing Trust in Cyberspace: 113-130. CRC Press, Taylor & Francis Group.

Bedi, Punam, Harmeet Kaur, and Bhavna Gupta. (2013). Framework for Selection of Trustworthy Service Providers. Chapter 15 in Managing Trust in Cyberspace:339-359. CRC Press, Taylor & Francis Group.

Research paper published in Refereed /Peer Reviewed Journals

Jindal, Vinita, Punam Bedi. (2018). An Improved Hybrid Ant Particle Optimization (IHAPO) algorithm for reducing travel time in VANETs, Applied Soft Computing, Available online 27 December 2017, ISSN 1568-4946, <https://doi.org/10.1016/j.asoc.2017.12.038>.

Bisht, Sanjay, H.S. Bharati, S.B. Taneja, and Punam Bedi. (2018). Command Agent Belief Architecture to support Commander Decision Making in Military Simulation, Defence Science Journal, 68(1): 46-53 (impact factor 0.500).

Kumari, Tulika, Punam Bedi. (2017). A Comprehensive Study of Shilling Attacks in Recommender Systems, IJCSI International Journal of Computer Science Issues, 14(4): 44-50, July 2017, ISSN (Print): 1694-0814 | ISSN (Online): 1694-0784.

Jindal, Vinita, Punam Bedi. (2017). Reducing Waiting Time with Parallel Preemptive Algorithm in VANETs, Vehicular Communications, 7:58-65, 2017, Elsevier. (Impact Factor: 5.108, UGC Reference List No. - 35543).

Jindal, Vinita, Punam Bedi. (2017). Preemptive MACO (MACO-P) Algorithm for Reducing Travel Time in VANETs, Applied Artificial Intelligence, 31 (2): 174-196, Taylor and Francis (Impact Factor: 0.652, UGC Reference List No. - 15917).

Sharma, Chhavi, Punam Bedi. (2017). CCFRS - Community based Collaborative Filtering Recommender System, ISTA 2016, Journal of Intelligent and Fuzzy Systems, 32(4):2987-2995, IOS Press, Netherlands (Impact Factor: 1.261, UGC Reference List No. - 30259).

Gautam, Anjali, Punam Bedi. (2017). ISTA 2016, Developing Content-Based Recommender System Using Hadoop Map Reduce, Journal of Intelligent and Fuzzy Systems, 32(4):2997-3008, IOS Press, Netherlands (Impact Factor: 1.261, UGC Reference List No. - 30259).

Vasishth, Pooja, Punam Bedi. (2017). A Fuzzy Hybrid Recommender System, Journal of Intelligent and Fuzzy Systems, 32 (6): 3945–3960, IOS Press. (Impact Factor: 1.261, UGC Reference List No. -30259).

Jindal, Vinita, Punam Bedi. (2016). High Performance Adaptive Traffic Control for Efficient Response in Vehicular Ad Hoc Networks, International Journal of Computational Science and Engineering, InderScience Publishers (In Press, UGC Reference List No. -2764).

Bedi, Punam, Sumit Agarwal, Richa Singh. (2016). Trust and reputation based multi-agent recommender system, International Journal of Computational Science and Engineering, InderScience Publishers (In Press, UGC Reference List No. -2764).

Chawla, S., Srivastava, S., & Bedi, P. (2016). Goals and scenarios based web requirements engineering. Computer Systems Science and Engineering, 31(1), 33-51.

Jindal, Vinita, Punam Bedi. (2016). Vehicular Ad-Hoc Networks- Introduction, Standards, Routing Protocols and Challenges. International Journal of Computer Science Issues (IJCSI). 13(2): 44-55, 2016, ISSN: 1694-0814.

Jindal, Vinita, Punam Bedi. (2016). Reducing travel time in VANETs using MACO with CUDA on GPU, Journal of Network and Innovative Computing (JNIC). 4(1): 200-208, 2016, ISSN: 2160-2174.

Sharma, Neeraj Kumar , Vibha Gaur, Punam Bedi. (2016). Safeguarding Buyers with Attack-Resilient Reputation Parameters. Journal of Theoretical and Applied Electronic Commerce Research (JTAER), 11(1): 46-66, 2016, ISSN 0718–1876 (UGC Reference List No. -11367).

Bedi, Punam, Chhavi Sharma. (2016). Community Detection in Social Networks, Wiley interdisciplinary Reviews: Data Mining and Knowledge Discovery, 6 (3): 115 – 135 (Impact factor 2.111, UGC Reference List No. -32986).

Bedi, Punam, Pooja Vashisth. Deepak Chandoliya and Bipin Kumar Yadav. (2015). Argumentation Enabled Interest-Based Personalized Recommender System, Journal of Experimental and Theoretical Artificial Intelligence (JETAI), 27(2): 199–226, 2015, Taylor and Francis (Impact factor 1.384, UGC Reference List No. -7493).

Chawla, Shailey, Sangeeta Srivastava and Punam Bedi. (2015). Improving the quality of web applications with web specific goal driven requirements engineering, International Journal of System Assurance Engineering and Management, Vol. 6: pp. 1-13, Springer.

Chawla, Shailey, Sangeeta Srivastava and Punam Bedi. (2015). A Qualitative Forward Reasoning Approach for Evaluation of WebGRL Diagrams, Journal of Information and Systems Management, 5(1):1-15.

Bedi, Punam and Ravish Sharma. (2015). AbFR: Ant based Friends Recommendation in Social Tagging Systems, International Journal of Swarm Intelligence, 1(4) : 321-343. InderScience.

Bedi, Punam and Pooja Vashisth. (2014). Empowering Recommender Systems using Trust and Argumentation, Information Sciences, 279: 569-586, Elsevier (impact factor 3.893, 5-year impact factor

4.832, UGC Reference List No. -21128).

Dixit V. S., Harita Mehta and Punam Bedi. (2014). A Proposed Framework for Group Based Multi Criteria Recommendations, *Applied Artificial Intelligence* 28:917–956, 2014, Taylor & Francis (Impact factor 0.652, UGC Reference List No. -15917).

Bhasin, Veenu and Punam Bedi. (2014). Steganalysis of Colored JPEG Images using Ensemble of Extreme Learning Machines, *International Journal on Recent Trends in Engineering & Technology (IJRTET)*, 11(1):63-74, July 2014.(UGC Reference List No. - 48133).

Mishra, Anurag, Charu Agarwal, Arpita Sharma and Punam Bedi. (2014). Optimized Gray-scale Image Watermarking using DWT-SVD and Firefly Algorithm. *Expert Systems and Applications*. 41(17): 7858–7867. Elsevier (Impact factor 2.203, 5-year impact factor 3.928, UGC Reference List No. -29150).

Sharma, Neeraj Kumar, Vibha Gaur and Punam Bedi. (2014). Improving Trustworthiness in E-Market Using Attack Resilient Reputation Modeling, *International Journal of Intelligent Information Technologies (IJIT)*, 10(3), 57-82, July-September 2014, IGI Global.

Aakanksha, Ravish Sharma, Punam Bedi. (2014). Trusted and load-balanced Ant-based Routing in Mobile Ad-hoc Networks, *International Journal of Artificial Intelligence and Soft Computing (IJASIS)*, 4(2/3):195-211. Inderscience (UGC Reference List No. -49129).

Shailey Chawla, Sangeeta Srivastava, Punam Bedi (2014). Evaluation of Web-specific Goal Oriented Requirements Language Models with Quantitative Reasoning, *ACM SIGSOFT Software Engineering Notes*, 39(2):1-9, March 2014. USA: ACM Digital Library (UGC Reference List No. - 46814).

Sharma, Meera, Punam Bedi and V. B. Singh. (2014). An Empirical Evaluation of Cross Project Priority Prediction, *International Journal of Systems Assurance Engineering and Management*. 5(4):651-663, Springer.

Gaur, Vibha, Anuja Soni, Punam Bedi and S.K. Muttoo. (2014). Comparative Analysis Of ANFIS And ANN For Evaluating Inter-Agent Dependency Requirements, *(IJCSIM)*, 6 : 23- 34. (UGC Reference List No. - 2771).

Marwaha, Preeti, Hema Banati and Punam Bedi. (2014). BPEL-TC : Orchestration of Temporally Customized Web Services, *International Journal of Computer Information Systems and Industrial Management (IJCSIM)*, 6 : 270 - 278 .

Mehta, Harita, V. S. Dixit and Punam Bedi. (2014).Refinement of Group Recommendations Using User Preferences and Item Attributes, *International Journal of Computer Information Systems and industrial Applications*, 6 : 515-527.

Sharma, Neeraj Kumar, Vibha Gaur and Punam Bedi. (2014). A Dynamic Personalised Product Pricing Strategy using Multiple Attributes in Agent Mediated e-market – A Neural Approach, *Int. Journal of*

Information and Decision Sciences (IJIDS) ,6(1) : 46-69. UK: Inderscience (UGC Reference List No. -22941).

Bedi, Punam, Harmeet Kaur and Bhavna Gupta. (2014). Trust based Access Control for Collaborative Systems, Journal of Experimental and Theoretical Artificial Intelligence (JETAI), 26(1):109-126, Taylor and Francis (Impact factor. 1.384). (UGC Reference List No. -7493).

Marwaha, Preeti, Hema Banati and Punam Bedi. (2013) WSDL-TC : Temporal Customization of Web Services. Journal of Network and Innovative Computing (JNIC), 1(1):234-247.

Mehta, Harita, Punam Dixit. (2013). Group Recommendation for Mitigating New User Problem: a modified OCRG, Journal of Network and Innovative Computing(JNIC). 1(1), 99-108, Dynamic Publishers inc., USA.

Bedi, Punam, Vandana Gandotra, Archana Singhal, Himanshi Narang and Sumit Sharma. (2013). Threat-Oriented Security Framework in Risk Management using Multi-Agent System, Software: Practice and Experience. 2013; 43:1013–1038, Wiley (Impact factor. 1.008).

Marwaha, Preeti, Hema Banati and Punam Bedi. (2013). FORMALIZING BPEL-TC THROUGH Π -CALCULUS, International Journal of Web & Semantic Technology (IJWesT) Vol.4, No.3:11-21. July 2013

Sharma, Richa, Hema Banati and. Punam Bedi. (2013). Stigmergic Agent based Adaptive Content Sequencing in an e-Learning Environment, International Journal of Advanced Intelligence Paradigms (IJAIIP), Vol.5, No.1/2:59 – 82. Inderscience. (UGC Reference List No. -2498).

Singh, Jasmeet and Punam Bedi. (2013). Map Construction and Localization using Lego Mindstorms NXT, Journal of Automation, Mobile Robotics and Intelligent Systems, Vol 7, No. 3 :22-30 (UGC Reference List No. -21544).

Bedi, Punam and Sumit Agarwal. (2013). SRPRS : Situation-Aware Reputation Based Proactive Recommender System, Journal of Information Assurance and Security, Volume8 (2013):220-229 (UGC Reference List No. -43355).

Bedi, Punam and Pooja Vashisth. (2013). Integrating Trust in Argumentation Based Recommender Systems, Journal of Information Assurance and Security Volume8 (2013):177-188 (UGC Reference List No. -43355).

Gandotra, Vandana, Archana Singhal, Punam Bedi. (2013). Mitigating Multi-Threats Optimally in Proactive Threat Management, ACM SIGSOFT Software Engineering Notes, 38(1):1-7, January 2013. USA: ACM Digital Library (UGC Reference List No. -46814).

Gupta, Bhavna, Punam Bedi and Harmeet Kaur Negi. (2013). An Agent based Reputation System for Unreliable Grid Environment, International Journal of Modeling and Optimization, 3(1) : 74-79.

Bedi, Punam, Roli Bansal and Priti Sehgal. (2013). Using PSO in a Spatial Image Hiding Scheme with distortion tolerance. *International Journal of Computers & Electrical Engineering, Special Issue on Recent Developments in Computing and Communications*, 39(2): 640-654, Elsevier (Impact factor 0.837, 5-year impact factor 0.733).

Dixit, V. S., Punam Bedi and Harita Mehta. (2013). Generation of Web Recommendations Using Implicit User Feedback and Normalized Mutual Information, *International Journal of Knowledge and Web Intelligence (IJKWI)*, Vol.4, No.2/3 : 113-141. Inderscience (UGC Reference List No. -43410).

Bedi, Punam, Anjali Thukral and Hema Banati, (2013). Focused Crawling of Tagged Web Resources using Ontology. *International Journal of Computers & Electrical Engineering, Special Issue on Recent Developments in Computing and Communications*. 39(2): 613-628, Elsevier (Impact factor 0.837, 5-year impact factor 0.733).

Goel, Samiksha, Arpita Sharma and Punam Bedi. (2013). Novel approaches for classification based on Cuckoo Search Strategy, *International Journal of Hybrid intelligent Systems (IJHIS)*, 10(3): 107–116, USA : IOS Press (UGC Reference List No. -43401).

Bedi, Punam, Aakanksha and Richa Sharma. (2013). Trust and Context View based Knowledge Sharing in MANets, *International Journal on Trust Management in Computing and Communications (IJTMCC)*, 1(1):85-103. UK:Inderscience (UGC Reference List No. -43423).

Bedi, Punam, Harmeet Kaur and Bhavna Gupta. (2013). A reputation based Service Provider Selection System for delegation of Job by Farmers, Special Issue on "Applications of Artificial Intelligence in Agriculture", *Journal of the Indian Society of Agricultural Statistics (JISAS)*, 67(1):23-32.

Marwaha, Sudeep, Punam Bedi and V. K. Yadav. (2013). Disease and Pests Identification in Maize- A Multilingual Scenario, Special Issue on "Applications of Artificial Intelligence in Agriculture", *Journal of the Indian Society of Agricultural Statistics (JISAS)*. 67(1):107-120.

Bedi, Punam, Sumit Kr. Agarwal. (2013). Aspect-Oriented Trust Based Mobile Recommender System, *International Journal of Computer Information Systems and Industrial Management (IJCISIM)*, Volume 5, 354-364.

Roli, Bansal, Priti Sehgal and Punam Bedi. (2012). Securing fingerprint images through PSO based robust facial watermarking. *International Journal of Information Security and Privacy (IJISP)*, 6(2), 34-52, 2012, IGI Global.

Sharma, Richa, Hema Banati and Punam Bedi. (2012). Building Socially-aware e-Learning Systems through Knowledge management, *International Journal of Knowledge Management (IJKM)*, 8(3): 1-27, IGI Global ().

Bedi, Punam and Ravish Sharma. (2012). Trust based Recommender System using Ant Colony for Trust Computation, *Expert Systems with Applications*. 39(1): 1183–1190. Elsevier (Impact factor 2.981, 5-year impact factor 2.879, UGC Reference List No. -29150).

Bedi, Punam, Karima Qayumi and Tejinder Kaur. (2012). Home Security Surveillance System using Multi-Robot System, *International Journal of Computer Applications in Technology (IJCAT)*, 45(4): 272-279,

2012, UK:Inderscience.

Bansal, Roli, Priti Sehgal and Punam Bedi. (2012). Securing fingerprint images using PSO based wavelet domain watermarking, *Information Security Journal: A Global Perspective*, 21(2): 88–101, 2012, Taylor and Francis.

Bedi, Punam, Anjali Thukral, Hema Banati, Abhishek Behl, Varun Mendiratta. (2011). A Multithreaded Semantic Focused Crawler, *Journal of Computer Science and Technology*, 27(6): 1233-1242 Nov. 2012. Springer (Impact factor 0.564, 5-year impact factor 0.498). <http://link.springer.com/article/10.1007%2Fs11390-012-1299-8>

Thukral, Anjali, Banati, Hema and Bedi, Punam. (2011). Ranking Tagged Resources Using Social Semantic Relevance. *International Journal of Information Retrieval Research (IJIRR)*, 1(3), 15-34. IGI Global. <http://www.igi-global.com/bookstore/article.aspx?titleid=64169>

Mehta, Harita, Shveta Kundra Bhatia, Punam Bedi and V. S. Dixit. (2011). Collaborative Personalized Web Recommender System using Entropy based Similarity Measure, *IJCSI International Journal of Computer Science Issues*. 8(6): 231-240.

Gaur, Vibha, Neeraj Kumar Sharma and Punam Bedi. (2011). A Dynamic Model for Sharing Reputation of Sellers among Buyers for Enhancing Trust in Agent Mediated e-market, *IJCSI International Journal of Computer Science Issues*. 8(6): 142 - 152.

Gandotra, Vandana, Archana Singhal and Punam Bedi. (2011). Layered Security Architecture for Threat Management using Multi-Agent System. *ACM SIGSOFT Software Engineering Notes*, 36(5), September 2011, USA: ACM Digital Library.

Gandotra, Vandana, Archana Singhal and Punam Bedi. (2011). MASPTA-O: Multi-Agent System Planning to Avoid Threats Optimally, *Information Security Journal: A Global Perspective*, 20(6): 290-310. Taylor and Francis.

Sharma, Richa, Hema Banati and Punam Bedi. (2011). Analyzing User Interaction to Design an Intelligent e-Learning Environment. *IJEL - International Journal on E-Learning*. 10 (4): 441–460.

Bansal, Roli, Priti Sehgal and Punam Bedi. (2011). Minutiae Extraction from Fingerprint Images - a Review, *IJCSI International Journal of Computer Science Issues*. 8(5): 74-85.

Goel, Samiksha, Arpita Sharma, Punam Bedi and V. K. Panchal. (2011). Decision Gap within Swarm in Natural Terrain Feature Identification, *International Journal of Computer Science and Security (IJCSS)*, 1(3). CSC press.

Bedi, Punam and Pooja Vashisth. (2011). Interest Based Recommendations with Argumentation. *Journal of Artificial Intelligence*. 4(2): 119-142.

Bedi, Punam, Vandana Gandotra, Archana Singhal, Himanshi Narang and Sumit Sharma. (2011). An Optimal Approach for Avoiding Threats, *European Journal of Scientific Research*. 55(4):527-537. European Journals Inc.

Gaur, Vibha Neeraj Kumar Sharma and Punam Bedi. (2011). A Dynamic Reinforcement Learning Strategy

for Seller Agents in e-market, International Journal on Recent Trends in Engineering & Technology. 5(1): 25-31. ACEEE.

Thukral, Anjali, Punam Bedi and Hema Banati. (2011). Architecture to organize social semantic relevant web resources in a knowledgebase, International Journal of e-Education, e-Business, e-Management and e-Learning (IJEEEE). 1(1): 45-51. Singapore: International Association of Computer Science and Information Technology Press (IACSIT).

Bedi Punam and Suruchi Chawla. (2011). High Scent Web Page Recommendation using Fuzzy Rough Set Attribute Reduction, J.F. Peters et al. (Eds.): Transactions on Rough Sets XIV, LNCS 6600: 18--36. Berlin Heidelberg: Springer-Verlag.

Bedi, Punam, A K Sinha, Sumit Agarwal, Ambrish Awasthi, Gaurav Prasad and Devinder Saini. (2010). Influence of Terrain on Modern Tactical Combat – A case study of Trust Based Recommender System. Special Issue on Machine Learning & Pattern Recognition of Defence Science Journal, 60(4): 405-411 (impact factor 0.500).

Bedi, Punam and Suruchi Chawla. (2010). Agent based Information Retrieval System using Information Scent. Journal of Artificial Intelligence. 3(4): 220-238.

Gupta, Bhavna, Harmeet Kaur and Punam Bedi. (2010). A reputation based service provider selection system for farmers, Journal of Information Assurance and Security. 5(2010):508-515.

Bansal, Roli, Priti Sehgal and Punam Bedi. (2010). Effective Morphological Extraction of True Fingerprint Minutiae based on the Hit or Miss Transform, International Journal of Biometrics and Bioinformatics (IJBB). 4(1):1-16.

Bedi, Punam, Harmeet Kaur, Bhavna Gupta, Jyotsna Talreja and Mansi Sood. (2009). A Website Recommender System based on Analysis of User's Access Log. Journal of Intelligent Systems, Special Issue on Recent Advances in Artificial Intelligence. 18(4).

Bedi, Punam, Ravish Sharma and Harmeet Kaur. (2009). Recommender system based on collaborative behavior of ants. Journal of Artificial Intelligence. 2(2): 40-55.

Bedi, Punam and Vibha Gaur. (2008). Trust based prioritization of quality attributes. The International Arab Journal of Information Technology. 5(3):223-229 (impact factor 0.127).

Marwaha, Sudeep and Punam Bedi. (2007). Temporal extension to OWL ontologies. International Journal of Information Technology. 4(1):53-60.

Bedi, Punam and Vibha Gaur. (2007). Evaluating trust in agent-mediated e-commerce. International Journal of Technology, Knowledge and Society. 3(3): 65-74.

Bedi, Punam and Vibha Gaur. (2007). Establishing quality requirements of multi-agent projects. Information Technology Journal. 6(5):490-496.

Bedi, Punam and Suruchi Chawla. (2007). Improving information retrieval precision using Query log mining and information scent. Information Technology Journal. 6(4):584-588.

Bedi, Punam and Vibha Gaur. (2007). Trust based quantification of quality for multiagent systems. Information Technology Journal. 6(3):414-423.

Banati, Hema and Punam Bedi. (2006). Trust dimension to usability. Journal of Technology, Knowledge and Society. 2(4):75-82.

Bedi, Punam and Harmeet Kaur. (2006). Trust based personalized recommender system. INFOCOMP Journal of Computer Science. 5(1):19-26.

Bedi, Punam and Hema Banati. (2006). Trust aware usability. Special issue on Website Evaluations of Journal of Information Technology and Tourism. 8(3):215-226.

Banati, Hema, Punam Bedi and P S Grover. (2006). Evaluating web usability from the `user's perspective. Journal of Computer Science. 2(4):314-317.

Bedi, Punam and HemaBanati. (2006). Assessing user trust to improve web usability. Journal of Computer Science. 2(3):283-287.

Sharma, K D, Punam Bedi and Saroj Kaushik. (1995). FSQL- frame_ oriented structured query language. Journal of Information Science and Technology. 4(2):142-168.

Bedi, Punam, K D Sharma and Saroj Kaushik. (1993). Time dimension to frame systems. Journal of Information Science and Technology. 2(3):212-228.

Research papers Published in Peer Reviewed Conferences

Punam Bedi, Richa, Sumit Kumar Agarwal and Veenu Bhasin. (2016). ELM Based Imputation-Boosted Proactive Recommender Systems. In proceedings ICACCI 2016 - International Conference on Advances in Computing, Communications and Informatics , Jaipur, India, Sept. 21-24, 2016: 80-85. USA: IEEE Xplore.

Anjali Gautam, Parila Chaudhary, Kunal Sindhwani and Punam Bedi. (2016). CBCARS: Content Boosted Context-Aware Recommendations Using Tensor Factorization, In proceedings ICACCI 2016 - International Conference on Advances in Computing, Communications and Informatics , Jaipur, India, Sept. 21-24, 2016: 86-92. USA: IEEE Xplore.

Anuradha Singhal, Punam Bedi. (2016). Local Binary Pattern Operator based Steganography in Wavelet Domain, In proceedings ICACCI 2016 - International Conference on Advances in Computing, Communications and Informatics , Jaipur, India, Sept. 21-24, 2016: 831-836. USA: IEEE Xplore.

Vinita Jindal, Vishwaraj Sharma and Punam Bedi. (2016). A preemptive Hybrid Ant Particle Optimization (HAPO-P) algorithm for Smart Transportation, In proceedings ICACCI 2016 - International Conference on Advances in Computing, Communications and Informatics , Jaipur, India, Sept. 21-24, 2016: 1362-1368. USA: IEEE Xplore.

Richa and Punam Bedi. (2016). Parallel Context Aware Recommender System using GPU and JcUDA, In proceedings ICACCI 2016 - International Conference on Advances in Computing, Communications and Informatics , Jaipur, India, Sept. 21-24, 2016: 1388-1394. USA: IEEE Xplore.

Punam Bedi, Veenu Bhasin and Tarun Yadav. (2016). 2L-DWTS - Steganography technique based on second level DWT, In proceedings ICACCI 2016 - International Conference on Advances in Computing, Communications and Informatics , Jaipur, India, Sept. 21-24, 2016: 1548-1553. USA: IEEE Xplore.

Bhasin, Veenu, Punam Bedi, Neha Singh and Charu Aggarwal. (2016). FS-EHS: Harmony Search based Feature Selection Algorithm for Steganalysis using ELM In proceedings IBICA 2015 - 6th International Conference on Innovations in Bio-Inspired Computing and Applications, 16-18 December 2015, pp. 393-402, Springer International Publishing, Switzerland, 2016, Print ISBN: 978-3-319-28030-1, Online ISBN: 978-3-319-28031-8.

Jindal, Vinita, Punam Bedi. (2016). Reducing travel time in VANETs with parallel implementation of MACO (Modified ACO). In proceedings IBICA 2015 - 6th International Conference on Innovations in Bio-Inspired Computing and Applications, 16-18 December 2015, pp. 383 - 392, Springer International Publishing, Switzerland, 2016, Print ISBN: 978-3-319-28030-1, Online ISBN: 978-3-319-28031-8.

Bedi, Punam, Vinita Jindal, Ruchika Garg, Heena Dhankani. (2015). A preemptive approach to reduce average queue length in VANETs. In proceedings ICACCI 2015 – 4th International Conference on Advances in Computing, Communications and Informatics. 10 - 13 August 2015, pp. 2089 – 2095, IEEE, Print ISBN: 978-1-4799-8791-7, Online ISBN: 978-1-4799-8792-4.

Bedi, Punam, Richa. (2015). User Interest Expansion using Spreading activation for Generating Recommendations. In proceedings ICACCI 2015 - 4th International Conference on Advances in Computing, Communications and Informatics. 10 - 13 August 2015, pp. 2089 – 2095, IEEE, Print ISBN: 978-1-4799-8791-7, Online ISBN: 978-1-4799-8792-4.

Gautam, Anjali, Punam Bedi. (2015). MR-VSM: Map Reduce based Vector Space Model for User Profiling - An Empirical Study on News Data. In proceedings ICACCI 2015 - 4th International Conference on Advances in Computing, Communications and Informatics., 10 - 13 August 2015, pp. 2089 – 2095, IEEE, Print ISBN: 978-1-4799-8791-7, Online ISBN: 978-1-4799-8792-4.

Bedi, Punam, Chhavi Sharma, Pooja Vashisth, Deepika Goel, Muskan Dhanda. (2015). Handling cold start problem in Recommender systems by using Interaction based social proximity factor. In proceedings ICACCI 2015 – 4th International Conference on Advances in Computing, Communications and Informatics. 10 - 13 August 2015, pp. 2089 – 2095, IEEE, Print ISBN: 978-1-4799-8791-7, Online ISBN: 978-1-4799-8792-4.

Jindal, Vinita, Heena Dhankani, Ruchika Garg, Punam Bedi. (2015). MACO: Modified ACO for reducing travel time in VANETs. In proceedings WCI 2015 – 3rd International Symposium on Women in Computing and Informatics, 10 - 13 August 2015, India. ACM Digital Library. Print ISBN No. 978-1-4503-3361-0.

Bhasin, Veenu, Punam Bedi, Aakarshi Goel, Sukanya Gupta. (2015). StegTrack: Tracking images with hidden content. In proceedings WCI 2015 – 3rd International Symposium on Women in Computing and Informatics, 10 - 13 August 2015, India. ACM Digital Library. Print ISBN No. 978-1-4503-3361-0.

Singhal, Anuradha, Punam Bedi. (2015). Steganography using Cuckoo Optimized Wavelet Coefficients. In proceedings WCI 2015 – 3rd International Symposium on Women in Computing and Informatics, 10 - 13 August 2015, India. ACM Digital Library. Print ISBN No. 978-1-4503-3361-0.

Gautam Anjali, Tulika, Radhika Dhingra and Punam Bedi. (2015). Use of NoSQL Database for Handling Semi Structured Data: An Empirical Study of News RSS Feeds. In proceedings ERCICA 2015 – 3rd International Conference On Emerging Research In Computing, Information, Communication And Applications, July 31- Aug 01, 2015, Bangalore, India. Springer.

Bedi, Punam, Vinita Jindal, Heena Dhankani and Ruchika Garg. (2015). ATSOT: Adaptive Traffic Signal Using mOTes. In proceedings DNIS 2015 - 10th International Workshop- Databases in Networked Information Systems, Aizu, Japan, March 23-25, 2015. LNCS 8999: 152-171. Springer.

Bedi, Punam, Sumit Kr. Agarwal, Pooja Vashisth, Samrath Sharma and Tushar Aggarwal. (2014). Online Tweet Recommendation using Extreme Learning Machine. In proceedings RecSysChallenge '14 - 2014 Recommender Systems Challenge, October 10 2014, Foster City, CA, USA: 62-65. USA: ACM.

Bedi, Punam Bedi, Anjali Gautam, Richa and Chhavi Sharma. (2014). Using Novelty Score of Unseen items to Handle Popularity Bias in Recommender Systems. In proceedings IC3I - International Conference on Contemporary Computing and Informatics, November 27 – 29, 2014, Mysore, India: 934-939. USA: IEEE Xplore.

Bedi, Punam, Shikha Agarwal, Archana Singhal, Ena Jain and Gunjan Gupta. (2014). A Novel Semantic Clustering Approach for Reasonable Diversity in News Recommendations. In proceedings ICCIDM - International Conference on computational Intelligence in Data Mining, Odisha, India. Computational Intelligence in Data Mining - Volume 1, Smart Innovation, Systems and Technologies Volume 31, 2015, pp 437-445, Springer.

Bedi, Punam, Sumit Agrawal, Samarth Sharma and Harshita Joshi. (2014). SAPRS: Situation-Aware Proactive Recommender System with Explanations. In proceedings ICACCI 2014 - International Conference on Advances in Computing, Communications and Informatics , Noida, India, September 24 – 27, 2014 : 277-283. USA: IEEE Xplore.

Bedi, Punam, Veenu Bhasin and Anuradha Singhal. (2014). Feature Selection for Steganalysis based on modified Stochastic Diffusion Search with Fisher Score as separability measure. In proceedings ICACCI 2014 - International Conference on Advances in Computing, Communications and Informatics , Noida, India, September 24 – 27, 2014 : 2323-2330. USA: IEEE Xplore.

Bedi, Punam and Vinita Jindal. (2014). Use of Big Data Technology in Vehicular Ad-hoc Networks. In proceedings ICACCI 2014 - International Conference on Advances in Computing, Communications and Informatics , Noida, India, September 24 – 27, 2014 : 1677-1683. USA: IEEE Xplore.

Bedi, Punam, Vinita Jindal and Anjali Gautam. (2014). Beginning with Big Data Simplified, In proceedings ICDMIC 2014 - International Conference on Data Mining and Intelligent Computing, September 5-6, 2014, Delhi India : 1-7. USA: IEEE Xplore.

Bedi, Punam, Veenu Bhasin, Natasha Mittal and Trisha Chatterjee. (2014). FS-SDS: Feature Selection for JPEG Steganalysis using Stochastic Diffusion Search, Special session on Soft Computing in SMC2014: IEEE Int. Conf. on Systems, Man, and Cybernetics, October 5-8, 2014, San Diego, CA, USA : 3797 – 3802.

USA: IEEE Xplore.

Shikha Agarwal, Archana Singhal, Punam Bedi, Ena Jain and Gunjan Gupta. 2014. Proactive Predictions to Handle Issues in Recommendations. In proceedings IACC 2014 - 4th IEEE International Advanced Computing Conference, Gurgaon, India, Feb. 21-22, 2014: 555-560. USA: IEEE Xplore.

Bedi, Punam, Sumit Kumar Agarwal, Vinita Jindal and Richa. (2014). MARST: Multi-Agent Recommender System for e-Tourism using Reputation Based Collaborative Filtering, In proceedings DNIS 2014 - 9th International Workshop- Databases in Networked Information Systems, Aizu, Japan, March 24-26, 2014, LNCS 8381: 189–201.

Bhasin, Veenu, Punam Bedi, Archi and Sakshi Jindal. (2013). Steganalysis of Colored JPEG Images, In proceedings ARTcom 2013 - Advances in Recent Technologies in Communication and Computing, Sept. 19-20, 2013, Bangalore, India:288-296. Elsevier.

K K Chaturvedi, P Bedi, S Mishra and , V B Singh. (2013). An Empirical Validation of the complexity of code changes and bugs in predicting the release time of open source software, 13th In proceedings CSE 2013 - 16th IEEE International Conference on Computational Science and Engineering, Sydney, Australia, Dec. 3-5, 2013: 1201-1206. USA: IEEE Xplore.

Marwaha, Preeti, Hema Banati and Punam Bedi. (2013). UDDI Extensions for Temporally Customized Web Services. In proceedings CIMTA- 2013 - 1st International Conference on Computational Intelligence: Modeling, Techniques and Applications, Procedia Technology 10 (2013): 184 – 190). Elsevier.

Bhasin, Veenu and Punam Bedi. (2013). Multi-class JPEG Steganalysis Using Extreme Learning Machine, In proceedings ICACCI 2013 - International Conference on Advances in Computing, Communications and Informatics, Mysore, India : 1948-1952. USA: IEEE Xplore.

Mehta, Harita, V. S. Dixit and. Punam Bedi (2013). Weighted Difference Entropy based Similarity Measure at Two levels in a Recommendation Framework, In proceedings ICACCI 2013 - International Conference on Advances in Computing, Communications and Informatics (ICACCI), Mysore, India : 2076-2083. USA: IEEE Xplore.

Bhasin, Veenu and Punam Bedi. (2013). Steganalysis for JPEG Images Using Extreme Learning Machine, Special session on Soft Computing in SMC2013: IEEE Int. Conf. on Systems, Man, and Cybernetics, Manchester, UK, Oct 13-16 :1361-1366. USA: IEEE Xplore.

Bedi, Punam, Pooja Vashisth, Purnima Khurana and Preeti. (2013). Modeling User Preferences in a Hybrid Recommender System using Type-2 Fuzzy Sets. In proceedings FUZZ-IEEE 2013 - The 2013 IEEE International Conference on Fuzzy Systems, July 7 – 10, 2013, Hyderabad, India: 1-8. USA: IEEE Xplore.

Bansal, Roli, Veenu Bhasin, Priti Sehgal and Punam Bedi. (2013). Multi-Agent System for Intelligent Watermarking of Fingerprint Images. In proceedings FUZZ-IEEE 2013 - The 2013 IEEE International Conference on Fuzzy Systems, July 7 – 10, 2013, Hyderabad, India: 1-8. USA: IEEE Xplore.

Sharma, Neeraj Kumar, Vibha Gaur and Punam Bedi. (2013). Distributed Multi-agent Reputation Framework for Interactions in e-market, In proceedings FUZZ-IEEE 2013 - The 2013 IEEE International

Conference on Fuzzy Systems, July 7 – 10, 2013, Hyderabad, India: 1-8. USA: IEEE Xplore.

Bedi, Punam and Sumit Agarwal. (2012). A Situation-Aware Proactive Recommender System, In proceedings HIS 2012 - 12th International Conference on Hybrid Intelligent Systems, December 04-07, 2012, Pune, India: 85-89. USA: IEEE Xplore.

Bansal, Roli, Priti Sehgal and Punam Bedi. (2012). Intelligent Wavelet Domain Watermarking of Fingerprint Images, In proceedings HIS 2012 - 12th International Conference on Hybrid Intelligent Systems, December 04-07, 2012, Pune, India: 90-95. USA: IEEE Xplore.

Bedi, Punam, Bhavna Gupta and. Harmeet Kaur. (2012). Predicting Attribute based User Trustworthiness for Access Control of Resources, In proceedings HIS 2012 - 12th International Conference on Hybrid Intelligent Systems, December 04-07, 2012, Pune, India: 294-299. USA: IEEE Xplore.

Banati, Hema, Bedi, Punam and Preeti Marwaha. (2012). Extending BPEL for WSDL-Temporal based Web Services, In proceedings HIS 2012 - 12th International Conference on Hybrid Intelligent Systems, December 04-07, 2012, Pune, India: 484-489. USA: IEEE Xplore.

Banati, Hema, Bedi, Punam and Preeti Marwaha. (2012). WSDL-TC: Collaborative Customization of Web Services, In proceedings ISDA 2012 - 12th International Conference on Intelligent System Design and Applications, November 27-29, 2012, Kochi, India: 692-697. USA: IEEE Xplore.

Sharma, Meera, Punam Bedi, K. K. Chaturvedi and V. B. Singh. (2012). Predicting the Priority of a Reported Bug using Machine Learning Techniques and Cross-Project Validation, In proceedings ISDA 2012 - 12th International Conference on Intelligent System Design and Applications, November 27-29, 2012, Kochi, India: 539-545. USA: IEEE Xplore.

Agarwal, Shikha, Singhal Archana and Punam Bedi. (2012). Classification of RSS Feed News Items using Ontology, In proceedings ISDA 2012 - 12th International Conference on Intelligent System Design and Applications, November 27-29, 2012, Kochi, India: 491- 496. USA: IEEE Xplore.

Sharma, Richa, Savita M. Datta, Hema Banati and Punam Bedi. (2012). An Opinion-based Framework for Designing Socially-aware e-Learning Systems, In proceedings ISDA 2012 - 12th International Conference on Intelligent System Design and Applications, November 27-29, 2012, Kochi, India:431-436. USA: IEEE Xplore.

Aakanksha and Punam Bedi. (2012). Mobile Process Groups based Device/Service Discovery and Interoperability in MANets, In proceedings ISDA 2012 - 12th International Conference on Intelligent System Design and Applications, November 27-29, 2012, Kochi, India: 466-471. USA: IEEE Xplore.

Mehta, Harita, V. S. Dixit and. Punam Bedi (2012). Refinement of Recommendations Based on User Preferences, In proceedings ISDA 2012 - 12th International Conference on Intelligent System Design and Applications, November 27-29, 2012, Kochi, India: 515-520. USA: IEEE Xplore.

Thukral, Anjali, Savita Datta, Hema Banati and Punam Bedi. (2012). Informal eLearning using Multi Agent Systems, In proceedings ISDA 2012 - 12th International Conference on Intelligent System Design and Applications, November 27-29, 2012, Kochi, India:213-217. USA: IEEE Xplore.

Vashisth, Pooja, Deepak Chandoliya, Bipin Kumar Yadav and Punam Bedi. Trust Enabled Argumentation Based Recommender System, In proceedings ISDA 2012 - 12th International Conference on Intelligent System Design and Applications, November 27-29, 2012, Kochi, India: 137-142. USA: IEEE Xplore.

Mehta, Harita, Punam Bedi and V. S. Dixit. (2012). OCRG: A Proposed Recommender for Mitigating New User Problem, In proceedings WICT 2012- International Conference on World Congress on Information and Communication Technologies, October 30 – November 02, 2012, Trivandrum, India: 515-519. USA: IEEE Xplore.

Banati, Hema, Bedi, Punam and Preeti Marwaha. (2012). WSDL-Temporal: An Approach for Change Management in Web Services, In proceedings URKE 2012 - International Conference on Uncertainty Reasoning and Knowledge Engineering, August 14-15, 2012, Jakarta, Indonesia: 44-49. USA: IEEE Xplore.

Agarwal, Shikha, Singhal Archana and Punam Bedi. (2012). IPTC based Ontological Representation of Educational News RSS Feeds, In proceedings ITC 2012 – 3rd International Conference on Recent Trends in Information, Telecommunication and Computing, Aug 03-04, 2012, Bangalore, India, Lecture Notes in Electrical Engineering Volume 150 : 353-359, 2013.

Bansal, Roli, Priti Sehgal and Punam Bedi. (2012). Securing fingerprint Images using a Hybrid Technique, In proceedings ICACCI 2012 - International Conference on Advances in Computing, Communications and Informatics, 3 - 5 August, 2012, Chennai, India : 557-565. USA: ACM.

Bedi, Punam, Harmeet Kaur and Bhavna Gupta. (2012). Trustworthy Service Provider Selection in Cloud Computing Environment, In proceedings CSNT 2012 - The International Conference on Communication Systems and Network Technologies, 10-14 May, 2012, Rajkot, India : 714-719. USA: IEEE Computer Society.

Bedi, Punam, Roli Bansal and Priti Sehgal. (2012). Multimodal Biometric Authentication using PSO based Watermarking. In proceedings C3IT - 2nd International Conference on Computer, Communication, Control and Information Technology, Procedia Technology 4 (2012) : 612 – 618, Elsevier.

Gandotra, Vandana, Archana Singhal, Punam Bedi. (2012). Threat-Oriented Security Framework: A Proactive Approach in Risk Management, In proceedings C3IT - 2nd International Conference on Computer, Communication, Control and Information Technology, Procedia Technology 4 (2012) : 487 – 494, Elsevier.

Bedi, Punam, Bhavna Gupta and Harmeet Kaur. (2012). Access Control on Grid Resources Using Radial Basis Function Neural Network, In proceedings C3IT - 2nd International Conference on Computer, Communication, Control and Information Technology, Procedia Technology 4 (2012) : 336 – 341, Elsevier.

Bedi, Punam and Pooja Vashisth. (2011). A Fuzzy Trust Model for Argumentation-Based Recommender Systems, In proceedings SocProS 2011 - International Conference on Soft Computing for Problem Solving, December 20-22, 2011, Kusum Deep et. al.(Eds.) AISC130: 493 - 502. Berlin Heidelberg: Springer-Verlag.

Aakansha, Ravish Sharma, Punam Bedi. (2011). MPG_AbTR: Ant based Trusted Routing in MANets Using Mobile Process Groups, In proceedings SocProS 2011 - International Conference on Soft Computing for Problem Solving, December 20-22, 2011, Vol.1, Kusum Deep et. al.(Eds.) AISC130: 367 - 376. Berlin Heidelberg: Springer-Verlag.

Sharma, Richa, Hema Banati and. Punam Bedi. (2011). Adaptive Content Sequencing for e-Learning Courses using Ant Colony Optimization, In proceedings SocProS 2011 - International Conference on Soft Computing for Problem Solving, December 20-22, 2011, Vol.2, Kusum Deep et. al.(Eds.) AISC131 : 579 - 590. Berlin Heidelberg: Springer-Verlag.

Vashisth, Pooja, Sumit Agarwal, Bimlesh Wadhwa and Punam Bedi. (2011). Capturing User Preferences through Interactive Visualization to Improve Recommendations. In proceedings WCIT 2011- World Conference on Information Technology, November 23-27, 2011, Antalya, Turkey, Procedia Computer Science, Elsevier (Accepted).

Goel, Samiksha, Arpita Sharma and Punam Bedi. (2011). Cuckoo Search Clustering Algorithm: A novel strategy of biomimicry. In proceedings WICT 2011- International Conference on World Congress on Information and Communication Technologies, December 11-14, 2011, Mumbai, India : 920-925. USA: IEEE Xplore.

Gupta, Bhavna, Harmeet Kaur and Punam Bedi. (2011). Predicting Grid User Trustworthiness using Neural Networks. In proceedings WICT 2011- International Conference on World Congress on Information and Communication Technologies, December 11-14, 2011, Mumbai, India : 731-736. USA: IEEE Xplore.

Vashisth, Pooja and Punam Bedi. (2011). Interest-Based Personalized Recommender System. In proceedings WICT 2011- International Conference on World Congress on Information and Communication Technologies, December 11-14, 2011, Mumbai, India: 245-250. USA: IEEE Xplore.

Bedi, Punam and Sumit Agarwal. (2011). Aspect-Oriented Mobility-Aware Recommender System. In proceedings WICT 2011- International Conference on World Congress on Information and Communication Technologies, December 11-14, 2011, Mumbai, India: 191-196. USA: IEEE Xplore.

Bedi, Punam and Pooja Vashisth. (2011). Improving recommendation by exchanging meta-information In proceedings CICN 2011 -International Conference on Computational Intelligence and Communication Systems, October 7-9, Gwalior, India: 448-453. USA: IEEE Xplore.

Aakansha, Punam Bedi. (2011). MPG-STAR: Mobile Process Groups Based Secured and trusted routing for MANets. In proceedings CICN 2011 -International Conference on Computational Intelligence and Communication Systems, October 7-9, Gwalior, India: 549-553. USA: IEEE Xplore.

Bedi, Punam and Sumit Agarwal. (2011). Preference Learning in Aspect Oriented Recommender System In proceedings CICN 2011 -International Conference on Computational Intelligence and Communication Systems, October 7-9, Gwalior, India: 611-615. USA: IEEE Xplore.

Sharma, Richa, Hema Banati and. Punam Bedi. (2011). Incorporating Social Opinion in Content Selection for an e-Learning Course, The 6th International Conference on Computer Science & Education (ICCSE 2011), August 03-05, 2011, Singapore, 1027 – 1032. USA: IEEE Xplore.

Chawla, Shailey, Sangeeta Srivastava and Punam Bedi. (2011). Goal Oriented Requirements Engineering Framework for Web Applications, In proceedings IC3 2011 - International Conference on Contemporary Computing, S. Aluru et. al.(Eds.) CCIS 168 : 229-241. . Berlin Heidelberg: Springer-Verlag.

Anjali Thukral, Varun Mendiratta, Abhishek Behl, Hema Banati, Punam Bedi. (2011). FCHC: A social semantic focused crawler, In proceedings ACC 2011 - The first International Conference on Advances in Computing and Communications, A. Abraham et al. (Eds.)Part III, CCIS 192: 273-283. Berlin Heidelberg: Springer-Verlag.

Punam Bedi, Roli Bansal and Priti Sehgal. (2011). Using PSO in Image Hiding Scheme based on LSB Substitution, In proceedings ACC 2011 - The first International Conference on Advances in Computing and Communications, A. Abraham et al. (Eds.)Part III, CCIS 192: 259--268. Berlin Heidelberg: Springer-Verlag.

Bedi, Punam and Pooja Vashisth. (2011). Interest-Based Repair of Conflicting Requirements using Argumentation, In proceedings CSNT 2011 - The International Conference on Communication Systems and Network Technologies, June 03- 05, Jammu, India : 718-722. USA: IEEE Computer Society.

Bedi, Punam, Sumit Agarwal. (2011). AORS: Aspect-oriented Recommender System, In proceedings CSNT 2011 - The International Conference on Communication Systems and Network Technologies, June 03- 05, Jammu, India : 709-713 USA: IEEE Computer Society.

Gupta, Bhavna, Harmeet Kaur, Namita and Punam Bedi. (2011). Trust based Access control for Grid Resources, In proceedings CSNT 2011 - The International Conference on Communication Systems and Network Technologies, June 03- 05, Jammu, India : 678-682. USA: IEEE Computer Society.

Sharma, Richa, Hema Banati and. Punam Bedi. (2011). Social Support Based Multi-Agent Framework for Designing an e-Learning Course, In proceedings ICCSN 2011 - 2011 IEEE International Conference on Communication Software and Networks, 160-164. USA: IEEE Xplore.

Gandotra, Vandana, Archana Singhal, Punam Bedi, (2011). Cross Threats Evaluation and Control in Proactive Risk Management, In proceedings ESEP 2011 - International Conference on Energy Systems and Electrical Power, 9-10 December 2011, Singapore, Energy Procedia 13 (2011): 4253 - 4262, Elsevier.

Bedi, Punam and Pooja Vashisth. (2011). Social–Cognitive Trust Integrated in Agents for E-Commerce, In proceedings IC4E 2011 - 2nd International Conference on e-Education, e-Business, e-Management and E-Learning, January 7-9, 2011, Mumbai, India, 68-74. USA: IEEE Xplore.

Thukral, A., Bedi, P., and Hema Banati. (2011). Automatic Organization of Web Resources in Ontologies for Learning Purpose. In proceedings IC4E 2011 - 2nd International Conference on e-Education, e-Business, e-Management and E-Learning, January 7-9, 2011, Mumbai, India, 38-44. USA: IEEE Xplore.

Bedi, Punam and Pooja Vashisth. (2011). Extending Speech-Act based Communication to Enable Argumentation in Cognitive Agents, ICAC3 2011, S. Unnikrishnan, S. Surve, and D. Bhoir (Eds.): ICAC3 2011, CCIS 125 : 25–40, 2011. Berlin Heidelberg: Springer-Verlag.

Bajaj, Ruchika, Punam Bedi and Saibal K. Pal. (2010). Best Hiding Capacity Scheme for Variable Length Messages Using Particle Swarm Optimization, In Proceedings SEMCCO 2010, LNCS 6466: 230–237, Berlin

Heidelberg: Springer-Verlag.

Bedi, Punam, Rajni Singh and Kaur Taranpreet Matharu. (2010). Use of Robot for Ensuring Security in a Closed Region, ICCIC 2010 - IEEE International Conference on Computational Intelligence and Computing Research, December 28-29, 2010, Coimbatore, India, 1-4. USA: IEEE Xplore.

Bedi, Punam, Preksha Gupta and Mukesh Jain. (2010). Web Based Monitoring System using Robot, INTERACT 2010 (Accepted for Publications).

Bedi, Punam and Pooja Vashisth. (2010). Designing Cognitive Agents for Argumentation based Negotiation in Electronic Trading, ICACCT 2010 -4th International Conference on Advanced Computing & Communication Technologies, 492-497, The Computer Society Chapter, IEEE Delhi Section.

Sharma, Ravish and Punam Bedi. (2010). Adaptive Link Sequence Recommendation Based On Ant Colony Metaphor. In proceedings ACS 2010 - International Conference on Advances in Computer Science: 232-236. ACEEE.

Gaur, Vibha, Neeraj Sharma and Punam Bedi. (2010). Evaluating Reputation Systems for Agent Mediated e-Commerce. In proceedings ACS 2010 - International Conference on Advances in Computer Science: 220-224. ACEEE.

Aakansha, Punam Bedi. (2010). MPG-TAR: Mobile Process Groups Based Trust Aware Routing Protocol for MANETs. In proceedings ARTcom 2010 - Advances in Recent Technologies in Communication and Computing, October 16-17, 2010, Kottayam, India, 131-135. USA: IEEE Xplore and IEEE CS Digital Library.

Bedi, Punam, Hema Banati and Anjali Thukral. (2010). Social Semantic Retrieval and Ranking of eResources. In proceedings ARTcom 2010 - Advances in Recent Technologies in Communication and Computing, October 16-17, 2010, Kottayam, India, 343-347. USA: IEEE Xplore and IEEE CS Digital Library.

Bedi, Punam and Pooja Vashisth. (2010). Negotiation using Argumentation for Location based E-commerce in a Multi Agent Society. In proceedings ICAI'10 - The 2010 International Conference on Artificial Intelligence, WORLDCOMP'10, July 12-15, 2010, Las Vegas, 444-450. USA: CSREA Press.

Gandotra, Vandana, Archana Singhal and Punam Bedi. (2010). A step towards secure software system using fuzzy logic. In proceedings ICCET'10 - the 2nd International Conference on Computer Engineering and Technology, April 16-18, 2010, Chengdu, China, 427-432. USA: IEEE Press and IEEE Xplore. http://ieeexplore.ieee.org/xpl/freeabs_all.jsp?arnumber=5486061

Gaur, Vibha, Anuja Soni and Punam Bedi. (2010). An agent-oriented approach to requirements engineering. In proceedings 2010 IEEE 2nd International Advance Computing Conference, February 19-20, 2010, India, 449-454. USA: IEEE Press and IEEE Xplore.

Gaur, Vibha, Anuja Soni and Punam Bedi. (2010). An application of multi-person decision-making model for negotiating and prioritizing requirements in agent-oriented paradigm. In proceedings DSDE'10 - International Conference on Data Storage and Data Engineering, February 9-10, 2010, Bangalore, India, 164-168. USA: IEEE Press and IEEE Xplore.

Bedi, Punam, Hema Banati and Richa Sharma. (2010). Designing an intelligent e-learning environment by user interaction analysis. In proceedings IHCI'10 - Second IEEE International Conference on Intelligent

Human Computer Interaction, 16-18 January, 2010, IIT Allahabad, 372-377 .Berlin Heidelberg: Springer-Verlag.

Bedi, Punam and Suruchi Chawla. (2009). Use of fuzzy rough set attribute reduction in high scent web page recommendations. In proceedings RSFDGr'09 -12th International Conference on Rough Sets, Fuzzy Sets, Data Mining and Granular Computing (LNAI 5908), December 15-18, 2009, Delhi, 192–200. Berlin Heidelberg: Springer-Verlag.

Talreja Jyotsna, Mansi Sood, Harmeet Kaur, Punam Bedi and Bhavna Gupta. (2009). Using web mining to generate recommendations - A website recommender. In proceedings IICAI'09 - 4th Indian International Conference on Artificial Intelligence, December 16-18, 2009, Tumkur, 333-349.

Marwaha, Sudeep, Punam Bedi, Ranjan Yadav and Nikhil Malik. (2009). Diseases & pests identification in crops - A semantic web approach. In proceedings IICAI'09 - 4th Indian International Conference on Artificial Intelligence, December 16-18, 2009, Tumkur, 1057-1076.

Gupta, Bhavna, Punam Bedi and Harmeet Kaur Negi. (2009). Trust based personalized ecommerce system for farmers. In proceedings IICAI'09-4th Indian International Conference on Artificial Intelligence,December 16-18, 2009, Tumkur, 1085-1093.

Bedi, Punam, Hema Banati and Anjali Thukral. (2009). Use of ontology for reusing web repositories for elearning, In proceedings CISSE'09 - International Joint Conferences on Computer, Information, and Systems Sciences, and Engineering, December 4-12, 2009, University of Bridgeport, USA. Berlin Heidelberg: Springer-Verlag.

Aakansha, Punam Bedi. (2009). A self-organizing self-healing on demand loop-free path routing protocol using mobile process groups for MANet. In proceedings ARTcom 2009 - Advances in Recent Technologies in Communications and Computing, October 27-28, 2009, Kottayam, India. 396-400. USA: IEEE Xplore and IEEE CS Digital Library.

Gandotra, Vandana, Archana Singhal and Punam Bedi. (2009). Threat mitigation, monitoring and management plan: An advance concept in risk management. In proceedings ARTcom 2009 - Advances in Recent Technologies in Communications and Computing, October 27-28, 2009, Kottayam, India. 719-723. USA: IEEE CS and ACM Digital Library.
<http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5328897&isnumber=5327740>
<http://portal.acm.org/citation.cfm?id=1673341>

Sharma, Ravish and Punam Bedi. (2009). Personalized tag recommendations to enhance users' perception. In proceedings ARTcom 2009 - Advances in Recent Technologies in Communications and Computing, October 27-28, 2009, Kottayam, 944-947. USA: IEEE Xplore and IEEE CS Digital Library.

Bedi, Punam, Vandana Gandotra, Archana Singhal, Vandita Vats and Neha Mishra. (2009). Avoiding threats using multi agent system planning for web based systems. In proceedings ICCCI'09 - First International Conference on Computational Collective Intelligence-Semantic Web, Social Networks and Multiagent Systems (LNAI 5796), October 5-7, 2009, Wroclaw, 709–719. Berlin Heidelberg: Springer-Verlag. <http://www.springerlink.com/content/q8443v63763wnwtl/>

Gandotra,Vandana, Archana Singhal and Punam Bedi. (2009). Identifying security requirements using hybrid technique. In proceedings ICSEA'09 - Fourth International Conference on Software Engineering

Advances, September 20-25, 2009, Portugal. 407-412. USA: IEEE Computer Society. <http://www.computer.org/portal/web/csdl/doi/10.1109/ICSEA.2009.65>

Bansal, Roli, Priti Sehgal and Punam Bedi. (2009). Fingerprint image enhancement using type-2 fuzzy Sets. In proceedings FSKD'09 - the 6th IEEE International Conference on Fuzzy Systems and Knowledge Discovery, August 14-16, 2009, China. USA: IEEE Press.

Mehta, Shikha, Hema Banati, and Punam Bedi. (2009). BDI planning approach to distributed multiagent based semantic search engine. In proceedings DCAI'09 - International Symposium on Distributed Computing and Artificial Intelligence, The 10th International Work-Conference on Artificial Neural Networks (IWANN2009) (Biological Inspired Systems. Computational and Ambient Intelligence), June 10-12, 2009, Spain. 25–28. Berlin Heidelberg: Springer-Verlag.

Bansal, Roli, Priti Sehgal and Punam Bedi. (2008). A novel framework for enhancing images corrupted by impulse noise using type-II fuzzy sets. In proceedings FSKD'08 - IEEE International Conference on Fuzzy Systems and Knowledge Discovery, October 18-20, 2008, Jinan, China. 266-271. USA: IEEE Press

Chawla, Suruchi and Punam Bedi. (2008). Query expansion using information scent. In proceedings ITSIM '08 - International Symposium on Information technology, August 26-28, 2008, Kuala Lumpur, Malaysia. 1-8. USA: IEEE Press.

Chawla, Suruchi and Punam Bedi. (2008). Improving information retrieval precision by finding related queries with similar information need using information scent. In proceedings ICETET'08 – The 1st International Conference on Emerging Trends in Engineering and Technology, July16-18, 2008, Nagpur, 486-491. USA: IEEE computer society press.

Chawla, Suruchi and Punam Bedi. (2008). Finding hubs and authorities using information scent to improve the information retrieval precision. In proceedings ICAI'08 - The 2008 International Conference on Artificial Intelligence, WORLDCOMP'08, July 14-17, 2008, Las Vegas, USA: CSREA Press

Bedi, Punam, Saurabh Jain, Richa Gupta, Ravish Sharma and Archana Singhal. (2007). Towards self-organizing web sites. In proceedings ADCOM'07 - 15th International Conference on Advanced Computing & Communication, December 18-21, 2007, Guwahati, 283-288. USA: IEEE Computer Society Press.

Vats, Aakanksha and Punam Bedi. (2007). Load balancing on dynamic network using mobile process groups. In proceedings ADCOM'07-15th International Conference on Advanced Computing & Communication, December 18-21, 2007, Guwahati, 553–558. USA: IEEE Computer Society Press.

Marwaha, Sudeep, Mohit Gupta, Manisha Bansal and Punam Bedi. (2007). Semantic web enabled resource scheduler - An approach using temporal extensions to ontologies. In proceedings ICCIMA'07 - International Conference on Advances on Computational Intelligence and Multimedia Applications, December 13-15, 2007, Sivakasi, 103-109. USA: IEEE Computer Society Press.

Bedi, Punam, Neha Mehdiratta, Silky Dhand, Ravish Sharma and Archana Singhal. (2007). Avoiding traffic jam using ant colony optimization. In proceedings ICCIMA'07 - International Conference on Advances on Computational Intelligence and Multimedia Applications, December 13-15, 2007, Sivakasi, 61-67. USA: IEEE Computer Society Press.

Chawla, Suruchi and Punam Bedi. (2007). Personalized web search using information scent. In proceedings CISSE'07-International Joint Conferences on Computer, Information, and Systems Sciences, and Engineering, December 3-12, 2007, University Bridgeport, 483-488 .Netherlands: Springer.

Sharma, Ravish, Maulein Singh, Ramneet Makkar, Harmeet Kaur and Punam Bedi. (2007). Ant recommender: Recommender system inspired by ant colony. In proceedings ACVIT'07 - International Conference on Advances in Computer Vision and Information Technology, November 28-30, 2007, Aurangabad.

Bedi, Punam and Vibha Gaur. (2007). Refining quality requirements in agent mediated e-commerce from user's trust. In proceedings ACVIT'07 - International Conference on Advances in Computer Vision and Information Technology, November 28-30, 2007, Aurangabad.

Thukral, Anjali, Richa Sharma, Hema Banati and Punam Bedi. (2007). Modeling roles in E-learning - MoRel. In proceedings ACVIT'07 - International Conference on Advances in Computer Vision and Information Technology, November 28-30, 2007, Aurangabad.

Bedi, Punam and Vibha Gaur. (2007). Optimal partner selection model for cooperation. In proceedings IICAI'07-3rd Indian International Conference on Artificial Intelligence, December 17 - 19, 2007, Pune, India. 1297-1307.

Bansal, Roli, Priti Sehgal and Punam Bedi. (2007). A simplified fuzzy filter for impulse noise removal using thresholding. In proceedings WCECS 2007 - World Congress on Engineering and Computer Science 2007, October 24-26, 2007, San Francisco, USA: The International Association of Engineers.

Bedi, Punam and Vibha Gaur. (2007). Quantification of quality for multi-agent system - A clustering approach. In proceedings CISTM'07 - 5th Annual Conference on Information Science, Technology and Management, July 16-18, 2007, Hyderabad, 72-85.

Bedi, Punam and Sudeep Marwaha. (2007). Versioning OWL ontologies using temporal tags. In proceedings CESSE'07 - The XXI. International Conference on Computer, Electrical, and Systems Science, and Engineering, May 25-27, 2007, Vienna, 332-337. USA: World Academy of Sciences.

Bedi, Punam and Vibha Gaur. (2007). Exploring the interdependencies among communication, knowledgeability and performance of multi-agent systems. In proceedings WCE'07 – World Congress on Engineering, vol 1, July 2-4, 2007, London, 47-552. USA: The International Association of Engineers.

Bedi, Punam and Vibha Gaur. (2007). Prioritizing quality specifications of multi-agent systems. In proceedings WCE'07 - the 2007 International Conference of Information Engineering, July 2-4, 2007, London, 541-546. USA: The International Association of Engineers.

Sharma R., M. Bansal, M. Gupta, A. Singhal and P. Bedi. (2007). Particle Swarm Optimization. In proceedings OPTIMA 2007 - the National Conference on Mathematical Modeling, Optimization and their Applications: 271-275. INDIA: Narosa publishing company.

Marwaha, Sudeep, Mohit Gupta, Manisha Bansal and Punam Bedi. (2007). Semantic Web Enabled Resource Scheduler: A Case Study for Scheduling Academic Events. In proceedings OPTIMA 2007 - the National Conference on Mathematical Modeling, Optimization and their Applications: 34-39. INDIA:

Narosa publishing company.

Bedi, Punam and Vibha Gaur. (2007). Evaluating trust in agent-mediated e-commerce, Paper Presented at the Third International Conference on Technology, Knowledge and Society, January 9-12, 2007, Cambridge University, UK.

Bedi, Punam, Harmeet Kaur and Sudeep Marwaha. (2007). Trust based recommender system for the semantic web. In proceedings IJCAI'07 - International Joint Conference on Artificial Intelligence, January 9-12, 2007, Hyderabad, 2677- 2682. USA: AAAI Press.

Bedi, Punam and Sudeep Marwaha. (2006). Multi agent system for farmers: an approach using temporal ontologies. In proceedings International Conference on Statistics and Informatics in Agriculture Research, December 27-30, 2006, New Delhi, India.

Bedi, Punam and Vibha Gaur. (2006). Multi dimension quality model of MAS. In proceedings SERP'06– International Conference on Software Engineering Research and Practice, June 26-29, 2006, USA. 130-136. USA: CSREA Press.

Bedi, Punam and Harmeet Kaur. (2005). Using fuzzy clustering to determine trust based recommendations. In proceedings IICAI'05 – Indian International Conference on Artificial Intelligence, December 20-22, 2005, Pune, 2120-2136.

Banati, Hema and Punam Bedi. (2005). Trust dimension to usability, Paper Presented at the Second International Conference on Technology, Knowledge and Society, December 12-15, 2005, Hyderabad, India.

Bedi, Punam, and Hema Banati. (2005). Prioritizing web usability attributes using intuitionistic fuzzy sets. In proceedings SERP'05 – International Conference on Software Engineering Research and Practice, June 27-30, 2005, Las Vegas, 570-576. USA: CSREA Press.

Bedi, Punam and Harmeet Kaur. (2005). Trust based recommender system. In proceedings ICAI'05 – International Conference on Artificial Intelligence, June 27-30, 2005, Las Vegas, 798-801. USA: CSREA Press.

Bedi, Punam and Sudeep Marwaha. (2005). Framework for ontology based expert systems: disease and pests identification in crops – A case study. In proceedings ICAI'05 - International Conference on Artificial Intelligence, June 27-30, 2005, Las Vegas, 256-259. USA: CSREA Press.

Harmeet Kaur and Punam Bedi. (2005). Using fuzzy clustering to determine agent reputation. In proceedings DMIN'05 – International Conference on Data Mining, June 20-23, 2005, Las Vegas, 79-85. USA: CSREA Press.

Banati, Hema and Punam Bedi. (2005). HISE - An algorithmic approach to evolve a usable website. In proceedings HCI'05 - International Conference on Human-Computer Interaction, June 20-23, 2005, Las Vegas, 17-23. USA: CSREA Press.

Bedi, Punam and Harmeet Kaur. (2005). Clustering recommendations to compute agent reputation. In proceedings Conference on Intelligent Computing: Theory and Application, March 28 - April 1, 2005,

Florida, 131-137. USA: SPIE.

Bedi Punam and Kamal K Goyal. (2005). Estimating Reliability of Multi Agent System. In proceedings International Conference on Reliability, Statistics and Related Fields (ICRSRF), Jan.7-9, 2005, Indian Institute of Management Kozhikode, Kerala, India.

Bedi, Punam and Harmeet Kaur. (2004). Modeling agent reputation in uncertain environment. In proceedings ICCS'04 - International Conference on Cognitive Science, December 16-18, 2004. Allahabad, 258-263.

Bedi, Punam and Sudeep Marwaha. (2004). Designing ontologies from traditional taxonomies. In proceedings ICCS'04 - International Conference on Cognitive Science, December 16-18, 2004, Allahabad, 324-329.

Bedi, Punam and Harmeet Kaur. (2004). Fuzzy quantification of trust. In proceedings ICCS'04 - International Conference on Cognitive Systems, December 14-15, 2004, New Delhi.

Bedi, Punam, Harmeet Kaur and Ankit Malhotra. (2002). Fuzzy dimension to databases. In proceedings 37th Annual Convention of Computer Society of India, October 29-31, 2002, Bangalore.

Bedi,Punam, K D Sharma and Saroj Kaushik. (1998). Multimedia Dimension to Frame Systems, 7th International Conference on Intelligent Systems, Accepted for Presentation and Publications in ICIS'98, July 1-3, 1998, Paris, France.

Bedi, Punam, K D Sharma and Saroj Kaushik. (1998). Distributed Frame Systems, International Conference on Computers and their Applications, Accepted for Publications in CATA'98, March 25-27, 1998, USA.

Bedi, Punam, K D Sharma and Saroj Kaushik. (1993). Triggers in frames. In proceedings 4th International Computing Congress, December 15-18, 1993, Hyderabad, 178-185. India: Tata McGraw-Hill.

Bedi, Punam, K.D. Sharma and Saroj Kaushik. (1991). A frame system shell (FS-shell). In proceedings 26th Annual Convention of Computer Society of India, September 29- October2, 1991, Delhi, 283-297. India: Tata McGraw-Hill.

Conference Organization/ Presentations

Organization of a Conference

Member, Program Committee, 10th International Conference on Agents and Artificial Intelligence (ICAART 2018), Funchal, Madeira, Portugal January 16-18, 2018.

Chair, Publicity Committee, 5th International Conference on Big Data Analytics (BDA 2017), December 12-15, 2017, Hyderabad, India.

Member, Technical Program Committee, Symposium on Machine Learning and Metaheuristics Techniques and Applications for Dependable Distributed Systems (MADS'17), November 6-10, 2017,

Orlando, Florida, USA.

General Chair, Fifth International Symposium on Women in Computing and Informatics (WCI 2017) co-affiliated with Sixth International Conference on Advances in Computing, Communications and Informatics (ICACCI-2017), September 13-16, 2017. Manipal University, Karnataka, India.

Member, Program Committee, Sixth International Conference on Advances in Computing, Communications and Informatics (ICACCI-2017), September 13-16, 2017. Manipal University, Karnataka, India.

Special Session Co-Chair, Sixth International Conference on Advances in Computing, Communications and Informatics (ICACCI-2017), September 13-16, 2017. Manipal University, Karnataka, India.

Member, Technical Program Committee, International Conference on Deep Learning Technologies (ICDLT 2017)), June 2-4, 2017, Chengdu, China.

Member, Program Committee, 9th International Conference on Agents and Artificial Intelligence (ICAART 2017), Porto, Portugal February 24-26, 2017.

Member, National Advisory Committee, International Conference on Soft Computing: Theories and Applications December 28-30, 2016, Amity University Rajasthan, Jaipur, India.

Program Co-Chair, Fourth International Symposium on Women in Computing and Informatics (WCI 2016), September 21-24, 2016, LNMIIT, Jaipur, India.

Award Committee Co-Chair, Fifth International Conference on Advances in Computing, Communications and Informatics (ICACCI-2016), September 21-24, 2016. LNMIIT, Jaipur, India.

Program Co-Chair, Third International Symposium on Women in Computing and Informatics (WCI 2015), 10 - 13 August 2015, Kochi, Kerala, India.

Publication Chair, Third International Conference on Advances in Computing, Communications and Informatics (ICACCI-2014). GCET, Greater Noida, India, September 24-27, 2014.

Workshop Chair, ISDA 2012 - 12th International Conference on Intelligent System Design and Applications, November 27-29, 2012, Kochi, India.

Workshops and Special Sessions Chair, HIS 2012 – 12th International Conference on Hybrid Intelligent Systems, December 04-07, 2012, Pune, India

Tutorial Chair, The International Conference on Security in Computer Networks and Distributed Systems (SNDS-2012), Indian Institute of Information Technology and Management-Kerala (IIITM-K), Trivandrum, India, October 11-12, 2012.

Organizing Chair, International Conference on Information Systems Security (ICISS-2007), University of Delhi, Dec.16-20, 2007.

Coordinator, Workshop on Computational NeuroScience (CNS 2007), organized at Department of Computer Science in collaboration with National Brain Research Centre (NBRC), Manesar, and International Brain Research Organization (IBRO), Dec. 24-31, 2007.

Member, Organizing Committee, National Conference on Mathematical Modeling, Optimization and Their Applications, April 28 - 29, 2007.

Member, Organizing Committee, 13th International Conference on Management of Data (COMAD 2006), Indian Institute of Technology (IIT), Delhi, India, December 14-16, 2006.

Member, Organizing Committee, 10th International Database Engineering and Applications Symposium, Delhi, India, Dec 11-14, 2006.

Member, Organizing Committee, Workshop on Content Creation for e-Learning, South Campus, University of Delhi, August 25-27, 2006.

Member, Organizing Committee, VLDB Delhi Summer School on Frontiers in Database Technology, IIT Delhi, India, June 1-4, 2004.

Member, Organizing Committee, 2nd International Conference on Quality, Reliability and Information Technology, New Delhi, India, 2003

Participation as Paper/Poster Presenter

Bedi, Punam, Pooja Vashisth, Purnima Khurana and Preeti. (2013). Modeling User Preferences in a Hybrid Recommender System using Type-2 Fuzzy Sets. In proceedings FUZZ-IEEE 2013 - The 2013 IEEE International Conference on Fuzzy Systems, July 7 – 10, 2013, Hyderabad, India: 1-8. USA: IEEE Xplore.

Bansal, Roli, Veenu Bhasin, Priti Sehgal and Punam Bedi. (2013). Multi-Agent System for Intelligent Watermarking of Fingerprint Images. FUZZ-IEEE 2013 - The 2013 IEEE International Conference on Fuzzy Systems, July 7 – 10, 2013, Hyderabad, India: 1-8. USA: IEEE Xplore.

Sharma, Neeraj Kumar, Vibha Gaur and Punam Bedi. (2013). Distributed Multi-agent Reputation Framework for Interactions in e-market. FUZZ-IEEE 2013 - The 2013 IEEE International Conference on Fuzzy Systems, July 7 – 10, 2013, Hyderabad, India: 1-8. USA: IEEE Xplore.

Bedi, Punam and Vibha Gaur. 2007. Evaluating trust in agent-mediated e-commerce, Paper Presented at the Third International Conference on Technology, Knowledge and Society, January 9-12, 2007, Cambridge University, UK.

Bedi, Punam and Kamal K. Goyal. 2005. Estimating reliability of multi agent system, Paper Presented at the International Conference on Reliability, Statistics and Related Fields (ICRSRF), January 7-9, 2005,

Kerala, India.

Bedi, Punam and Sudeep Marwaha. 2006. Multi agent system for farmers: an approach using temporal ontologies. Paper Presented at the International Conference on Statistics and Informatics in Agriculture Research, December 27-30, 2006, New Delhi, India.

Banati, Hema and Punam Bedi. 2005. Trust dimension to usability, Paper Presented at the Second International Conference on Technology, Knowledge and Society, December 12-15, 2005, Hyderabad, India.

Research Projects (Major Grants/Research Collaboration)

Influence of Terrains on Modern Tactical Combats – A Recommender System Approach

Position: Principal Investigator
Funding Agency: DTRL, DRDO, New Delhi
Period: Dec2006- June2009
Research Grant: Rs.9.89Lac
Status: Completed

Multi-agent systems

Position: Principal Investigator
Funding Agency: University of Delhi
Period: 2007- 2008
Research Grant: Rs.1.0Lac
Status: Completed

Multi-agent systems design methodologies

Position: Principal Investigator
Funding Agency: University of Delhi
Period: 2008- 2009
Research Grant: Rs.1.5Lac
Status: Completed

Trust in multi-agent systems

Position: Principal Investigator
Funding Agency: University of Delhi
Period: 2009- 2010
Research Grant: Rs.1.0Lac
Status: Completed

Using Ant based trust to compute recommendations

Position: Principal Investigator
Funding Agency: University of Delhi
Period: 2010- 2011
Research Grant: Rs.1.0Lac
Status: Completed

Information hiding (Steganography) and Steganalysis in Images

Position: Principal Investigator
Funding Agency: University of Delhi
Period: 2011- 2012
Research Grant: Rs.1.2Lac
Status: Completed

Recommender system for trustworthy personalized eLearning

Position: Principal Investigator
Funding Agency: University of Delhi
Period: 2012- 2013
Research Grant: Rs.1.5Lac
Status: Completed

Trustworthy Pro-active Recommender System

Position: Principal Investigator
Funding Agency: University Grants Commission
Period: 2013- 2016
Research Grant: Rs.13,38,800/-
Status: Completed

Steganalysis of colored JPEG Images

Position: Principal Investigator
Funding Agency: University of Delhi
Period: 2013- 2014
Research Grant: Rs.2.5Lac
Status: Completed

Computationally Intelligent Image Steganalysis

Position: Principal Investigator
Funding Agency: University of Delhi
Period: 2014- 2015
Research Grant: Rs.1.2Lac
Status: Completed

Soft Computing Approach to Multi-Criteria Optimization Models for Component Selection in Designing Fault Tolerant Software Systems

Position: Joint Principal Investigator
along with Dr. P.C. Jha (O.R. Dept., DU)
Funding Agency: DST (DU-DST PURSE grant)
Period: 2014- 2018
Research Grant: Rs.6.12Lac
Status: Ongoing

Feature Selection for image Steganalysis

- Position: Principal Investigator
- Funding Agency: University of Delhi
- Period: 2015- 2016
- Research Grant: Rs.1.5Lac
- Status: Completed

Mentor for Innovation Projects, University of Delhi (2015-2016)

1. Groups based Co-ordination for information exchange in Ad-hoc Networks

- Principal Investigators:
 - Dr. Aakanksha, Department of Computer Science, SRCASW, DU
 - Ms. Tina Sachdeva, Department of Computer Science, SRCASW, DU
 - Ms. Neha Garg, Department of Instrumentation, SRCASW, DU

2. Study and Design of Framework for Cloud Implementation in Large University/ Higher Education

- Principal Investigators:
 - Mr. Bhavya Deep, Department of Computer Science, BCAS, DU
 - Mr. Vikas Tyagi, Department of Physics, BCAS, DU
 - Mr. Parveen, Department of Computer Science, BCAS, DU

Awards & Distinctions

Obtained Rank 1 in M.Sc.(Mathematics)

Obtained Rank 2 in M.Tech. (Computer Science)

Included in Marquis Who's Who in the World in 29th Edition of 2012

Included in Marquis Who's Who in Science and Engineering 2016-2017 (12th Edition)

Association With Professional Bodies

Editing

Associate Editor, International Journal on Trust Management in Computing and Communications (IJTMCC), Inder Science, UK.

Member, Editorial Board, International Journal of Computer Science: Theory, Technology and Applications (IJCS).

Member, Editorial Board, International Journal of Data Modelling and Knowledge Management, Bhopal, India.

Member, Editorial Board, Journal of the Indian Society of Agricultural Statistics (JISAS), ISSN 0019-6363.

Member, Editorial Board, Journal of Knowledge, Learning and Ontology Engineering (JKOLE), Artificial Intelligence Association of India.

Member, Editorial Board, Indian Science Abstracts 2008-2010.

Associate Editor, International Journal of Technology, *Knowledge and Society*, Vol. 3, 2007.

Associate Editor, International Journal of Technology, Knowledge and Society, Vol. 2, 2006.

Member, Editorial Board, Scientific Journals International, USA.

Reviewing

Reviewer, 2017 IEEE International Conference on Fuzzy Systems (FUZZ-IEEE 2017), Naples, Italy, July 9-12, 2017.

Reviewer, 2017 IEEE International Conference on Systems, Man, and Cybernetics, October 5–8, 2017, Banff Center, Banff, Canada.

Reviewer, IEEE International Conference on Systems, Man, and Cybernetics (SMC 2016), October 09-12, 2016, Budapest, Hungary.

Member, Technical Program Committee, International Conference on Contemporary Computing and Informatics (IC3I), December 14-17, 2016, Amity University, Noida, India.

Member, Program Committee, Fifth International Conference on Advances in Computing, Communications and Informatics (ICACCI-2016), September 21-24, 2016. LNMIIT, Jaipur, India.

Reviewer, IEEE International Conference on Fuzzy Systems (FUZZ-IEEE 2016), July 25-29, 2016, Vancouver, Canada.

Member, Program Committee, Fourth International Conference on Advances in Computing, Communications and Informatics (ICACCI-2015), August 10-13, 2015, Kochi, Kerala, India.

Member, International Program Committee, International Conference on Knowledge Engineering and Ontology Development - KEOD 2015, November, 12-14, 2015, Lisbon, Portugal.

Member, Program Committee, The 5th International Conference CONFLUENCE 2014 The Next Generation Information Technology Summit, September 25-26, 2014, Amity University Uttar Pradesh, India.

Member, Technical Program Committee, International Conference on Contemporary Computing and Informatics (IC3I), Sri Jaya Chamarajendra College of Engineering (SJCE), November 27-29, 2014, Mysore, India.

Member, Technical Program Committee, First International Conference on Networks & Soft Computing, (ICNSC-- 2014), Vignan's Foundation for Science, Technology & Research, August 19-20 2014, Guntur, Andhra Pradesh.

Member, Technical Program Committee, International Conference on "Computational Intelligence & Communication Technology (CICT-2015), ABES Engineering College, Feb. 13-14, 2015, Ghaziabad, India.

Member, International Program Committee, World Congress on Information and Communication Technologies (WICT 2014), December 8-11, 2014, Malacca, Malaysia.

Member, International Program Committee, The International Conference on Soft Computing and

Pattern Recognition (SoCPaR), August 11-14, 2014, Tunis, Tunisia.

Member, Program Committee, Fifth World Congress on Nature and Biologically Inspired Computing (NaBIC2014), July 30 - August 01, 2014, Porto, Portugal.

Member, Program Committee, The 6th International Conference on Computational Aspects of Social Networks (CASoN), July 30 - August 01, 2014, Porto, Portugal.

Member, Program Committee, 4th International Conference on Advances in Computing, Communication and Control (ICAC3'15), January 23-24, 2015, Mumbai, India.

Member, Program Committee, International Conference on Agents and Artificial Intelligence (ICAART 2015), January 10-12, 2015, Lisbon, Portugal.

Member, Program Committee, International Conference On Advances In Electronics, Computers And Communications (ICAEECC-14), October 10-11, 2014, Bengaluru, INDIA.

Member, International Program Committee, "International Conference on Knowledge Engineering and Ontology Development" - KEOD 2014, October, 21-24, 2014, Rome Italy.

Member, Program Committee, 2nd International Conference on Advanced Computing, Networking and Informatics (ICACNI 2014), June 24-26, 2014, Kolkata, India.

Member, Program Committee, The 5th FTRA International Conference on Creative Converged IT (CCIT 2014), April 9-12, 2014, Daejeon, Korea.

Member, Technical Program Committee, 3rd International Conference on Intelligent Machines (ICIM'2014), May 1-4, 2014, Tunis, Tunisia.

Member, International Program Committee, International Conference on Pervasive and Embedded Computing and Communication Systems - PECCS 2014, January 7 – 9, Lisbon, Portugal.

Member, Technical Program Committee, The 2nd International Conference on Information Systems & Computer Networks (ISCON 2014), March 1-2, 2014, GLA University, Mathura, India.

Member, Program Committee, International Conference on Agents and Artificial Intelligence (ICAART 2014), ESEO, March 6 – 8, 2014, Angers, Loire Valley, France.

Member, Program Committee, The 4th International Conference CONFLUENCE 2013 The Next Generation Information Technology Summit, September 26-27, 2013, Amity University Uttar Pradesh, India.

Member, Program Committee, The International Conference on Machine Intelligence Research and Advancement, ICMIRA-2013, December 21-23, 2012, Katra, Jammu, India.

Member, Technical Program Committee, track "Computing" of the International Conference on Mathematics and Computing (ICMC 2013), December 26-29, 2013, Haldia, India.

Member, Program Committee, DMSI 2013 - The 2013 International Conference on Advances in Data

Mining and Security Informatics, December 18-20, 2013, Tumkur (near Bangalore), India.

Member, Program Committee, IICAI 2013 - 6th Indian International Conference on Artificial Intelligence, December 18-20, 2013, Tumkur (near Bangalore), India.

Member, Program Committee, The International Conference on Machine Intelligence Research and Advancement, MIRA-2013, December 21-23, 2012, Katra, Jammu, India.

Member, Technical Committee, Second International Conference on Advances in Computing, Communications and Informatics (ICACCI-2013). August 22-25, 2013, Mysore, India.

Member, Program Committee, The International Conference on Communication Systems and Network Technologies (CSNT-2013), April 5-8, 2013, Gwalior, India.

Member, Program Committee, International Conference on Advances in Computing, Communication and Control (ICAC3'13), January 18 – 19, 2013, Mumbai, India.

Technical Committee Member and Track Chair, ISSET 2012 - The International Symposium on standards in Engineering and Technology to be held at Delhi Technological University from 4-6 October 2012.

Member, Technical Program Committee, special session on “Nature-inspired Algorithms for Service-Oriented Architectures and Cloud computing” at the Fourth World Congress on Nature and Biologically Inspired Computing (NaBIC2012) to be held at Mexico City, Mexico during November 05-09, 2012.

Member, Technical Program Committee, WTA 2012 - 8th International Symposium on Wireless sensor network Technologies and Applications for Smart Space, Jeju, November 22-25, 2012,

Reviewer, Interactive Learning Environments, Taylor & Francis Journal, 2012.

Reviewer, Human-centric Computing and Information Sciences, SpringerOpen Journal, 2012.

Member, Technical Program Committee, 2012 FTRA International Conference on Advanced IT, engineering and Management), July 10-12, 2012, Jeju, Korea.

Member, Technical Committee on Soft Computing of IEEE Systems, Man and Cybernetics Society.

Member, Technical Committee on Computational Collective Intelligence of IEEE Systems, Man and Cybernetics Society.

Member, Technical Committee on Computational Intelligence of IEEE Systems, Man and Cybernetics Society.

Member, Technical Program Committee, Seventh International Conference on “Bio-Inspired Computing: Theories and Application, 2012 (BIC-TA 2012)” is to be held at ABV-Indian Institute of Information Technology and Management Gwalior during December 14 - 16, 2012.

Member, Program Committee, National Conference on Computing For National Development (INDIAcom), 2012.

Member, Advisory Committee, International Conference on Information, Communication and Embedded Systems- (ICICES2012), S.A.Engineering College, Chennai, Tamilnadu, Feb. 2012.

Reviewer, Data and Knowledge Engineering Journal (DKE), elsevier.

Member, International Program Committee, World Congress on Information and Communication Technologies (WICT 2011), Mumbai, India, December 11-14, 2011.

Reviewer, International Journal of Semantic Web and Information Systems (IJSWIS).

Member, Program Committee, The tenth International Conference on Machine Learning and Applications (ICMLA'11), Honolulu Hawaii, USA, December 18-21, 2011.

Member, Program Committee, Indian International Conference on Artificial Intelligence, (IICAI 2011), Tumkur (near Bangalore), India, December 14-16, 2011.

Member, National Advisory Committee, International Conference on Information, Communication and Embedded Systems (ICICES) 2011, S.A. ENGG. COLLEGE, Chennai, India. Feb. 23-24, 2011.

Member, National Technical Committee, International Conference on Computer, Communication and Electrical Technology (ICCCET) 2011, National College of Engineering, Maruthakulam, Tirunelveli, Tamilnadu, India. March 18-19, 2011.

Member, International Programme Committee, The first International Conference on Advances in Computing and Communications (ACC-2011), Rajagiri School of Engineering and Technology (RSET), Kochi, Kerala, India, July 22-24, 2011.

Reviewer, Software: Practice and Experience, Wiley.

Reviewer, Neurocomputing, Elsevier.

Reviewer, The ninth International Conference on Machine Learning and Applications (ICMLA'10), Washington DC, USA, December 12-14, 2010.

Member, Technical Committee, International Conference on Methods and Models in Computing (ICM2C-2010), Jawaharlal Nehru University, Delhi, India, 2010.

Member, Program Committee, National Conference on Computing For National Development (INDIAcom), 2010.

Member, Technical Committee, International Conference on Methods and Models in Computing

(ICM2CS-2009), Jawaharlal Nehru University, Delhi, India, 2009.

Member, Program Committee, Indian International Conference on Artificial Intelligence, (IICAI 2009), Tumkur, December 16-18, 2009.

Member, Program Committee, National Conference on Computing For National Development (INDIAcom), 2009.

Member, Program Committee, International Conference on Agents and Artificial Intelligence (ICAART 2009), Porto, Portugal, January 19 – 21, 2009.

Member, Technical Committee, National Conference on Methods and Models in Computing (NCM2C-2008), Jawaharlal Nehru University, Delhi, India, 2008.

Member, Technical Program Committee, 7th International Conference on Advanced Language Processing and Web Information Technology (ALPIT 2008), Dalian, China, July 23 – 25, 2008.

Member, Main Track Program Committee, The 7th International Conference on Autonomous Agents and Multiagent Systems (AAMAS 2008), Estoril, Portugal, May 12-16, 2008.

Member, Program Committee, National Conference on Computing For National Development (INDIAcom), 2008.

Member, Technical Committee, National Conference on Methods and Models in Computing (NCM2C-2007), Jawaharlal Nehru University, Delhi, India, Dec 13-14, 2007.

Member, Program Committee, 11th International Database Engineering and Applications Symposium (IDEAS 2007), Banff, Canada, Sept. 2007.

Member, Technical Program Committee, 6th International Conference on Advanced Language Processing and Web Information Technology (ALPIT 2007), Huayang Plaza Hotel, Luoyang, China, Aug 22-24, 2007.

Member, Program Committee, National Conference on Computing For National Development (INDIAcom), Feb. 23–24, 2007.

Member, Technical Committee, National Conference on Methods and Models in Computing (NCM2C-2006), Jawaharlal Nehru University, Delhi, India, Dec 18-19, 2006.

Member, Program Committee, 10th International Database Engineering and Applications Symposium (IDEAS 2006), Delhi, India, Dec 11-14, 2006.

Member, Program Committee, ICAI'05 – The 2005 International Conference on Artificial Intelligence, Las

Vegas, Nevada, USA, 2005.

Member, Program Committee, SERP'05 – The 2005 International Conference on Software Engineering Research and Practice, Las Vegas, Nevada, USA, 2005.

Member, Advisory Committee for Ph.D. Students, Awarded

Vandana Gandotra (Supervisor: Dr. Archana Singhal)

Shikha Mehta (Supervisor: Dr. Hema Banati)

Monika Bajaj (Supervisor: Dr. Hema Banati)

Priti Marwaha (Supervisor: Dr. Hema Banati)

Anuja Soni (Supervisor: Dr. Vibha Gaur)

Neeraj Kumar Sharma (Supervisor: Dr. Vibha Gaur)

Harita Mehta (Supervisor: Dr. V. S. Dixit)

Shikha Agarwal nee Gupta (Supervisor: Dr. Archana Singhal)

Samiksha Goel (Supervisor: Dr. Arpita Sharma)

Charu Aggarwal (Supervisor: Dr. Arpita Sharma)

Shweta Kundra (Supervisor: Dr. V. S. Dixit)

K. K. Chaturvedi (Supervisor: Dr. V. B. Singh)

Shailly Chawla (Supervisor: Dr. Sangeeta Srivastava)

Meera Sharma (Supervisor; Dr. V. B. Singh)

Mr. Abhishek (Supervisors: Dr. S.K. Muttoo, Dr. S. K. Pal)

Member, Advisory Committee for Ph.D. Students, under progress

Mr. Rajan Gupta (Supervisors: Dr. S.K. Muttoo, Dr. S. K. Pal)

Ms. Nidhi Arora (Supervisor: Dr. Hema Banati)

Mr. Indranath Chatterjee (Supervisor ; Dr. Naveen Kumar)

Ms. Sonia (Supervisor ; Dr. Naveen Kumar)

Ms. Himani(Supervisor ; Dr. Naveen Kumar)

Ms. Tripti Agarwal (Supervisor: Dr. Archana Singhal)

Ms. Shikha (Supervisors: Dr. S.K. Muttoo)

Mr. Ravi (Supervisors: Dr. S.K. Muttoo)

Ms. Akanksha Bansal nee Chopra (Supervisor: Dr. V. S. Dixit)

Mr. Anjani Kumar Verma (Supervisor: Dr. V. S. Dixit)

Ms. Prerna Singh (Supervisor: Dr. Priti Sehgal)

Committees and Boards

Nodal Officer (GeM) for University of Delhi.

Nodal Officer (e-procurement) for University of Delhi.

Transparency Officer and Nodal Officer for RTI request & Appeal Management Information Systems (RTI-MIS) of the University of Delhi.

Member Internal Complaints Committee, University of Delhi, (2017-2020).

Member, Governing Body, Lady Shri Ram College for Women (2017-2018).

Member, Standing Committee, Non Collegiate Women Education Board (2009 – 2017).

Member, Academic Council, University of Delhi (2005-2008).

Member (Coordinator),Website Committee, University of Delhi (June 2009- July 2010).

Member, Committee for implementing Student Life Cycle Management, University of Delhi (2009-2012).

Member, Project Monitoring Committee for implementing Student Life Cycle Management, University of Delhi (2010).

Governor Chancellor's nominee on Selection Committee(s) of Maharshi Dayanand University, Rohtak for teaching posts in Computer Science (2008-2010).

Member, Governing Body, Delhi University Library System (2008 – 2010).

Member, Departmental Research Committee, Department of Computer Science, University of Delhi.

Member, Committee of Post-Graduate and Honours Courses, Department of Computer Science, University of Delhi.

Member, Committee of Under-Graduate Courses, Department of Computer Science, University of Delhi.

Member, Selection Committee for JRF, UGC South Campus, University of Delhi (2008).

Member, Standing Committee (New Courses), University of Delhi (2007).

Member, Steering Committee for automation of Examination Branch, University of Delhi (2007).

Member, Task force for formulating to interact with the Confederation of Indian Industry (CII) for formulating Vocational Courses, University of Delhi (2007).

Member, Board of Studies, Department of Computer Science, Jamia Millia Islamia(2006 – 2010)

Member, Committee of Courses, Department of Computer Science, University of Rajasthan(2006 – 2010).

Co-Chairman, Working Group on Computer Science, NSDL Project, NISCAIR, India (2006).

Member, Selection Committees for various colleges of University of Delhi.

Member, Committee for promotion under CAS for various colleges of University of Delhi.

Member, Selection Committee for Scientist B, DRDO

Member, Committee for promotion under CAS for DRDO.

Member, Selection Committee, Baba Gulam Shah Badshah University, Jammu (2006).

Member, Southern Region Minor Research Project Scrutiny Committee, UGC (2006).

Member, Selection Committee for selection of Scholars for Post-doctoral Fellowship and research Scholarships for Scholars and Researchers, Govt. of NCT of Delhi, Department of Information Technology, Delhi Secretariat, New Delhi (2006).

Expert, DPC under CAS, National Centre for Agricultural Economics and Policy Research, New Delhi (2006).

Member, Expert Committee for Design of MCA (revised) 5th semester elective courses, IGNOU (2006).

Member, Expert Committee, Distance Education Council, for evaluation of BCA programme &Self Instructional Study Material of JRN Rajasthan Vidyapeeth (Deemed) University, Udaipur, Rajasthan (2006).

Member, Expert Committee, Distance Education Council, for evaluation of PGDCA and M.Sc. Computer Science programme &Self Instructional Study Material of JRN Rajasthan Vidyapeeth (Deemed) University, Udaipur, Rajasthan (2006).

Memberships

Senior Member, Institute of Electrical and Electronics Engineers (IEEE).

Member, Computer Society, IEEE

Senior Member, Association of Computing Machinery (ACM).

Member, Association for Advancement of Artificial Intelligence (AAAI) (formerly known as American Association of Artificial Intelligence).

Life Member, Computer Society of India.

Member, World Academy of Science, Engineering and Technology.

Office Bearer

Co-Chairman, Working Group on Computer Science, NSDL Project, NISCAIR, India (2006).

Other Activities

M.Sc.(Computer Science) Projects Completed

Bhatia, Deepika, Saumya Bansal, Handling Sparsity in Recommender Systems, Major Project, M.Sc. Semester IV, 2016-2017.

Pandey, Aradhana, Garima Jain, Automated Planning for real time strategic games, Major Project, M.Sc. Semester IV, 2016-2017.

Agarwal, Aditi, Pooja Satija, Learning for real time strategic games, Major Project, M.Sc. Semester IV, 2016-2017.

Bhatia, Deepika, Saumya Bansal, Recommender System using Matrix Factorization, Minor Project, M.Sc. Semester III, 2016-2017.

Pandey, Aradhana, Garima Jain, Survey of real time strategic games for automated planning, Minor Project, M.Sc. Semester III, 2016-2017.

Agarwal, Aditi, Pooja Satija, Survey Of Real Time Strategic Games For Development Of Bot, Minor Project, M.Sc. Semester III, 2016-2017.

Yadav, Tarun, DWT based Image Steganography, Major Project, M.Sc. Semester IV, 2015-2016.

Chaudhary, Parila, Kunal Sindhvani, Matrix Factorization for Recommender Systems, Major Project, M.Sc. Semester IV, 2015-2016.

Yadav, Tarun, Image Steganalysis, Minor Project, M.Sc. Semester III, 2015-2016.

Chaudhary, Parila, Kunal Sindhvani, Recommender Systems, Minor Project, M.Sc. Semester III, 2015-2016.

Dhankani, Heena, Ruchika Garg, Optimization of traffic flow in VANETs, Major Project, M.Sc. Semester

IV, 2014-2015.

Dhingra, Radhika, Tulika, Generating Recommendations for Big Data, Major Project, M.Sc. Semester IV, 2014-2015.

Singh, Neha, Charu Aggarwal, Feature Selection for Image Steganalysis, Major Project, M.Sc. Semester IV, 2014-2015.

Goel, Deepika, Muskan Dhanda, Generating Recommendations for Twitter Users, Major Project, M.Sc. Semester IV, 2014-2015.

Nigam, Divya, Shivangi Rastogi, Context Aware Recommender System, Major Project, M.Sc. Semester IV, 2014-2015.

Dhankani, Heena, Ruchika Garg, Adaptive Traffic signal for VANETs, Minor Project, M.Sc. Semester III, 2014-2015.

Dhingra, Radhika, Tulika, Generating Recommendations for Big Data, Minor Project, M.Sc. Semester III, 2014-2015.

Singh, Neha, Charu Aggarwal, Image Steganalysis, Minor Project, M.Sc. Semester III, 2014-2015.

Goel, Deepika, Muskan Dhanda, Handling Cold Start Problem in Recommender Systems using Social Ties, Minor Project, M.Sc. Semester III, 2014-2015.

Nigam, Divya, Shivangi Rastogi, Context Aware Recommender System, Minor Project, M.Sc. Semester III, 2014-2015.

Goel, Aakarshi, Sukanya Gupta, Steganalysis of Colored Images, Major Project, M.Sc. Semester IV, 2013-2014.

Mittal, Natasha, Trisha Chatterjee, Feature Selection for Steganalysis, Major Project, M.Sc. Semester IV, 2013-2014.

Joshi, Harshita, Samarth Sharma, Pro-active Recommender System, Major Project, M.Sc. Semester IV, 2013-2014.

Gupta, Anjali, Tushar Agarwal, Pro-active Recommender System, Major Project, M.Sc. Semester IV, 2013-2014.

Jain, Ena, Gunjan Gupta, Semantic Expansion of Ontology based User Profiling, Major Project, M.Sc. Semester IV, 2013-2014.

Goel, Aakarshi, Sukanya Gupta, Steganalysis of Colored Images, Minor Project, M.Sc. Semester III, 2013-2014.

Mittal, Natasha, Trisha Chatterjee, Feature Selection for Steganalysis, Minor Project, M.Sc. Semester III,

2013-2014.

Joshi, Harshita, Samarth Sharma, Pro-active Recommender System, Minor Project, M.Sc. Semester III, 2013-2014.

Gupta, Anjali, Tushar Agarwal, Pro-active Recommender System, Minor Project, M.Sc. Semester III, 2013-2014.

Jain, Ena, Gunjan Gupta, Semantic Expansion of Ontology based User Profiling, Minor Project, M.Sc. Semester III, 2013-2014.

Gautam Pahuja, Swati Parmar, Usability and Aesthetics in USERS (University Student Examination Result System), Major Project, M.Sc. Semester IV, 2012-2013.

Vikrant Ghai, Bhavya Dhingra, Security Management for USERS (University Student Examination Result System), Major Project, M.Sc. Semester IV, 2012-2013.

Deepika Kamboj, Sunaina Kalucha, Database Design for USERS (University Student Examination Result System), Major Project, M.Sc. Semester IV, 2012-2013.

Sakshi, Archi, Steganalysis of JPEG Images, Major Project, M.Sc. Semester IV, 2012-2013.

Preeti, Purnima Khurana, Argumentation based Recommender System, Major Project, M.Sc. Semester IV, 2012-2013.

Gautam Pahuja, Swati Parmar, Usability and Aesthetics in USERS (University Student Examination Result System), Minor Project, M.Sc. Semester III, 2012-2013.

Vikrant Ghai, Bhavya Dhingra, Security Management for USERS (University Student Examination Result System), Minor Project, M.Sc. Semester III, 2012-2013.

Deepika Kamboj, Sunaina Kalucha, Database Design for USERS (University Student Examination Result System), Minor Project, M.Sc. Semester III, 2012-2013.

Sakshi, Archi, Steganalysis of Images, Minor Project, M.Sc. Semester III, 2012-2013.

Preeti, Purnima Khurana, Argumentation based Recommender System, Minor Project, M.Sc. Semester III, 2012-2013.

Sumit Sharma, Himanshi Narang, Secure Software Engineering, Major Project, M.Sc. Semester IV, 2011-2012.

Jasmeet Singh, Building Maps using Robots, Major Project, M.Sc. Semester IV, 2011-2012.

Deepak, Bipin, Argumentation in Recommender Systems, Major Project, M.Sc. Semester IV, 2011-2012.

Sneha, Manisha, Steganalysis in Images, Minor Project, Major Project, M.Sc. Semester IV, 2011-2012.

Shikha Sharma, Pooja Gupta, MASTER: Multi Agent System Technology for analyzing Examination Results, Major Project, M.Sc. Semester IV, 2011-2012.

Sumit Sharma, Himanshi Narang, Secure Software Engineering, Minor Project, M.Sc. Semester III, 2011-2012.

Jasmeet Singh, Multi-Robot System, Minor Project, M.Sc. Semester III, 2011-2012.

Deepak, Bipin, Argumentation in Recommender Systems, Minor Project, M.Sc. Semester III, 2011-2012.

Sneha, Manisha, Steganalysis in Images, Minor Project, M.Sc. Semester III, 2011-2012.

Shikha Sharma, Pooja Gupta, Agent Communication, Minor Project, M.Sc. Semester III, 2011-2012.

Abhishek Behl, Varun Mendiratta, Focussed Crawler, Major Project, M.Sc. Semester IV, 2010-2011.

Prachi Nagpal, Sumedha Upadhyaya, Adding semantics to web search, Major Project, M.Sc. Semester IV, 2010-2011.

Karima, Tejinder Kaur, Communication in Robots, Major Project, M.Sc. Semester IV, 2010-2011.

Anjani, Geetanjali Shivas, Steganalysis, Major Project, M.Sc. Semester IV, 2010-2011.

Abhishek Behl, Varun Mendiratta, Developing a Crawler, Minor Project, M.Sc. Semester III, 2010-2011.

Prachi Nagpal, Sumedha Upadhyaya, Exploring Functionality of a Search Engine, Minor Project, M.Sc. Semester III, 2010-2011.

Karima, Tejinder Kaur, Building Robots with LEGO NXT, Minor Project, M.Sc. Semester III, 2010-2011.

Anjani, Geetanjali Shivas, Steganography and Steganalysis, Minor Project, M.Sc. Semester III, 2010-2011.

Ruchika Bajaj, Shweta Jain, Finding best hiding capacity scheme for variable length messages, Major Project, M.Sc. Semester IV, 2009-2010.

Mukesh Jain, Preksha Gupta, A Web based Monitoring System using Robots, Major Project, M.Sc. Semester IV, 2009-2010.

Rajni Singh, Taranpreet Kaur, Use of Robots for ensuring Security in a closed region, Major Project, M.Sc. Semester IV, 2009-2010.

Isha Gupta, Shruti Mehra, Enhancing Expert System for Multilingual Scenario, Major Project, M.Sc. Semester IV, 2009-2010.

Ruchika Bajaj, Shweta Jain, Using AI techniques for Security, Minor Project, M.Sc. Semester III, 2009-2010.

Mukesh Jain, Preksha Gupta, Robotics and Multi-agent systems, Minor Project, M.Sc. Semester III,

2009-2010.

Rajni Singh, TaranpreetKaur, Understanding how robots take actions, Minor Project, M.Sc. Semester III, 2009-2010.

Isha Gupta, Shruti Mehra, Ontology-Based Expert Systems, Minor Project, M.Sc. Semester III, 2009-2010.

Deepak Bammi, Natasha Jain, *Ontology Extraction from Text*, Major Project, M.Sc. Semester IV, 2008-2009.

Neha Mishra, Vandita Vats, Avoiding Threats using MAS planning, Major Project, M.Sc. Semester IV, 2008-2009.

Nikhil Malik, Ranjan Yadav, Ontology based Expert System, Major Project, M.Sc. Semester IV, 2008-2009.

Deepak Bammi, Natasha Jain, Semantic Web Based e-learning, Minor Project, M.Sc. Semester III, 2008-2009.

Neha Mishra, Vandita Vats, Planning in Agents, Minor Project, M.Sc. Semester III, 2008-2009.

Nikhil Malik, Ranjan Yadav, Web based Ontology Editor, Minor Project, M.Sc. Semester III, 2008-2009.

Divya, Nidhi Misra, Solving Network Congestion using Swarm Intelligence: Simulation using a Network Simulator, Major Project, M.Sc. Semester IV, 2007-2008.

Jyotsna Talreja, Mansi Sood, Using Web Mining Techniques to Generate Recommendations: Website Recommender System, Major Project, M.Sc. Semester IV, 2007-2008.

Karan Gupta, Sandeep Bansal, Web Ontology Editor, Major Project, M.Sc. Semester IV, 2007-2008.

Shefali Bhargava, Shivani Sen, Acclimatizing the Learning Style of e-learning, Major Project, M.Sc. Semester IV, 2007-2008.

Payal Arora, Malvika Gaur, Fingerprint Image Enhancement Using Fuzzy Logic, Major Project, M.Sc. Semester IV, 2007-2008.

Divya, Nidhi Misra, Solving Network Congestion using Swarm Intelligence, Minor Project, M.Sc. Semester III, 2007-2008.

Jyotsna Talreja, Mansi Sood, Use of Web Mining Techniques for generating Recommendations, Minor Project, M.Sc. Semester III, 2007-2008.

Karan Gupta, Sandeep Bansal, Information Retrieval from Temporal Ontologies, Minor Project, M.Sc. Semester III, 2007-2008.

Shefali Bhargava, Shivani Sen, Personalizing e-contents, Minor Project, M.Sc. Semester III, 2007-2008.

Payal Arora, Malvika Gaur, Fingerprint Image Enhancement Techniques, Minor Project, M.Sc. Semester

III, 2007-2008.

Richa Gupta, Saurabh Jain, Towards Self-organizing Web Sites, Major Project, M.Sc. Semester IV, 2006-2007.

Neha Mehdiratta, Silky Dhand, ACO algorithm for dynamic TSP, Major Project, M.Sc. Semester IV, 2006-2007.

Maulein Singh, Ramneet Kakkar, Recommender System Using ACO, Major Project, M.Sc. Semester IV, 2006-2007.

Mohit Gupta, Manisha Bansal, Analyzing Information Retrieval from Ontologies, Major Project, M.Sc. Semester IV, 2006-2007.

Richa Gupta, Saurabh Jain, Web Session Clustering using ACO, Minor Project, M.Sc. Semester III, 2006-2007.

Neha Mehdiratta, Silky Dhand, ACO algorithm for TSP, Minor Project, M.Sc. Semester III, 2006-2007.

Maulein Singh, Ramneet Kakkar, Discovering classification rules using ACO, Minor Project, M.Sc. Semester III, 2006-2007.

Mohit Gupta, Manisha Bansal, Particle Swarm Optimization, Minor Project, M.Sc. Semester III, 2006-2007.

Baljeet Kaur, E-MDS: An Online Medical Diagnosis System, Major Project, M.Sc. Semester IV, 2005-2006.

Shikha Sablok, Expert System On The Web: A Case Study on Nutrition(ESN), Major Project, M.Sc. Semester IV, 2005-2006.

Renu, Information Retrieval From Ontologies, Major Project, M.Sc. Semester IV, 2005-2006.

Baljeet Kaur, Shikha Sablok, Expert Systems on the Web, Minor Project, M.Sc. Semester III, 2005-2006.

Renu, Exploring Web Intelligence, Minor Project, M.Sc. Semester III, 2005-2006.