




University Faculty Details Page on DU Web-site

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Designation		Associate Professor				
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Residence						
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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						
17 th Jan, 2002 - till date: Associate Professor, Department of Computer Science, University of Delhi.						
26 th June, 2009- 23 rd Oct. 2009: Director. Delhi University Computer Centre, University of Delhi.						
21 st Oct. 2005 – 20 th Oct. 2008: Head, Department of Computer Science, University of Delhi.						
14 th March, 1999 – 16 th Jan, 2002: Reader, Deshbandhu College, Department of Computer Science, University of Delhi.						
1 st Jan, 1987 - 13 th March, 1999: Lecturer / Sr. Lecturer / Lecturer (Reader's Grade), Department of Computer Science, Deshbandhu College, University of Delhi.						

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

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, 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).

Anjali Gautam, Artificial Intelligence. University of Delhi (Date of Registration Jan 2014).

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

Bedi, Punam and Pooja Vashisth. (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 0.527).

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 3.969).

Bedi, Punam and Ravish Sharma. (2014). AbFR: Ant based Friends Recommendation in Social Tagging Systems, *International Journal of Swarm Intelligence*, UK:Inderscience, (In Press).

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 0.475).

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.

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 2.455).

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 (IJASCI)*, 4(2/3):195-211. UK:Inderscience.

Chawla, Shailey, 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.

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, International Journal of Computer Information Systems and Industrial Management (IJCISIM), 6: 23- 34.

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 (IJCISIM), 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: UK:Inderscience.

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. 0.317).

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 OCGR, 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 (IJAIP), Vol.5, No.1/2:59 – 82. Inderscience.

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.

Bedi, Punam and Sumit Agarwal. (2013). SRPRS : Situation-Aware Reputation Based Proactive Recommender System, Journal of Information Assurance and Security, Volume8 (2013):220-229.

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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.

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.

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.

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.

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.

Bansal Roli, 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.

Punam Bedi, 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>

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.

Thukral, A., Banati, H., & Bedi, P. (2011). Ranking Tagged Resources Using Social Semantic Relevance. *International Journal of 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 2.203, 5-year impact factor 2.455).

Thukral, A., Banati, H., & Bedi, P. (2011). Ranking Tagged Resources Using Social Semantic Relevance. *International Journal of Information Retrieval Research (IJRR)*, 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.

Punam Bedi, Karima Qayumi, Tejinder Kaur. (2012). Home Security Surveillance System using Multi-Robot System, *International Journal of Computer Applications in Technology (IJCAT)*, 45(4): 272-279, 2012, 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. <http://dx.doi.org/10.1080/19393555.2011.642066>

Gandotra, Vandana, Archana Singhal, 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. <http://dl.acm.org/citation.cfm?id=2020984&CFID=55736586&CFTOKEN=70042720>

Gandotra, Vandana, Archana Singhal, 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. <http://www.tandfonline.com/doi/abs/10.1080/19393555.2011.624159>

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.

Punam Bedi, Pooja Vashisth. (2011). Interest Based Recommendations with Argumentation. Journal of Artificial Intelligence. 4(2): 119-142 (SJR(2011) 0.041 SNIP(2011) 1.966).

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. (SJR(2011) 0.033 SNIP(2011) 0.493) http://www.eurojournals.com/EJSR_55_4_09.pdf

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 Scant 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 0.389).

Bedi, Punam and Suruchi Chawla. (2010). Agent based Information Retrieval System using Information Scant. Journal of Artificial Intelligence. 3(4): 220-238(SJR(2011) 0.026 SNIP(2011) 0.207).

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): 333-352 (SJR (2011) 0.026 SNIP (2011) 0.207).

Bedi, Punam, Ravish Sharma and Harmeet Kaur. (2009). Recommender system based on collaborative behavior of ants. Journal of Artificial Intelligence. 2(2): 40-55 (SJR(2011) 0.041 SNIP(2011) 1.966).

Marwaha, Sudeep and Punam Bedi. (2008). Temporal extension to OWL ontologies. International Journal of Information Technology. 4(1):53-60.

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), SJR(2011) 0.027 SNIP(2011) 0.338).

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 (SJR(2011) 0.038 SNIP(2011) 1.129).

Bedi, Punam and Suruchi Chawla. (2007). Improving information retrieval precision using Query log mining and information scent. Information Technology Journal. 6(4):584-588(SJR(2011) 0.038 SNIP(2011) 1.129).

Bedi, Punam and Vibha Gaur. (2007). Trust based quantification of quality for multiagent systems. Information Technology Journal. 6(3):414-423(SJR(2011) 0.038 SNIP(2011) 1.129).

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.

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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 Hema Banati. (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). FSQ- 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

Bedi, Punam, Richa. (2015). User Interest Expansion using Spreading activation for Generating Recommendations, Fourth International Conference on Advances in Computing, Communications and Informatics (ICACCI 2015), August 10-13, 2015 Kochi, Kerala, India. ieeexplore (Accepted).

Gautam, Anjali, Punam Bedi. (2015). MR-VSM: Map Reduce based Vector Space Model for User Profiling – An Empirical Study on News Data, Fourth International Conference on Advances in

Computing, Communications and Informatics (ICACCI 2015), August 10-13, 2015 Kochi, Kerala, India. ieeexplore (Accepted).

Bedi, Punam, Vinita Jindal, Ruchika Garg and Heena Dhankani. (2015). A preemptive approach to reduce average queue length in VANETs, Fourth International Conference on Advances in Computing, Communications and Informatics (ICACCI 2015), August 10-13, 2015 Kochi, Kerala, India. ieeexplore (Accepted).

Bedi, Punam, Chhavi Sharma, Pooja Vashisth, Deepika Goel and Muskan Dhanda. (2015). Handling cold start problem in Recommender systems by using Interaction based social proximity factor, Fourth International Conference on Advances in Computing, Communications and Informatics (ICACCI 2015), August 10-13, 2015 Kochi, Kerala, India. ieeexplore (Accepted).

Jindal, Vinita Jindal, Heena Dhankani, Ruchika Garg and Punam Bedi. (2015). MACO: Modified ACO for reducing travel time in VANETs, Third International Symposium on Women in Computing and Informatics (WCI-2015), August 10-13, 2015 Kochi, Kerala, India. ACM digital library (Accepted).

Singhal, Anuradha and Punam Bedi. (2015). Steganography using Cuckoo Optimized Wavelet Coefficients, Third International Symposium on Women in Computing and Informatics (WCI-2015), August 10-13, 2015 Kochi, Kerala, India. ACM digital library (Accepted).

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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.

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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.

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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.

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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- October 2, 1991, Delhi, 283-297. India: Tata McGraw-Hill.

Conference Organization/ Presentations

Organization of a Conference

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:	Ongoing
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:	Ongoing
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:	₹6.12Lac
Status:	Ongoing
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	
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

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)

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

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

Samiksha Goel (Supervisor: Dr. Arpita Sharma)

Charu Aggarwal (Supervisor: Dr. Arpita Sharma)

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

Shailly Chawla (Supervisor: Dr. Sangeeta Srivastava)

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

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

Mr. Abhishek (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)

Committees and Boards

Member, Standing Committee, Non Collegiate Women Education Board (2009 – 201).

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

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

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

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

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.