

Peer reviewed Publications:

Journal Publications

1. Jayashree Patil & Nandini Sidal, Comparative study of Intelligent Computing Technologies in VANET for Delay Sensitive Applications, Global Transitions Proceeding, **Elsevier Journal**, Feb 2021.
2. Jayashree Patil & Nandini Sidal, Big Data Analytics for Vehicular Edge Networks, Springer Book: Cloud Computing Enabled Big-Data Analytics in Wireless Ad-Hoc Networks, April 2021.
3. Jayashree Patil, Nandini Sidal, Edge Enabled Identification of Vehicle Emergency Situation using Data Aggregation and Filtering Approach, International Journal of Advanced Science & Technology, June 2020
4. Uttam Patil & Nandini Sidal, Study of the Fractal Nature of Evapotranspiration Time Series from Agricultural Regions of Northern Karnataka", International Journal of Intelligent Systems Technologies and Applications, Inderscienc, October 2020
5. Sridevi N & Nandini Sidal, "Semantic Directory for Cloud Services", EAI Endorsed Transaction on Scalable Information,
6. Ajay A & Nandini Sidal, "Selection of Securities for High Frequency Pairs Trading using Machine Learning", Journal of Financial Markets and Portfolio Management- Springer publications, (Submitted - August, 2018).
7. Manjula R & Nandini Sidal, "A Proposed Contextual Model for Big Data Analysis Using Advanced Analytics", Conference proceedings - Advances in Intelligent Systems and Computing, vol 654. Springer, Singapore
8. Jayashree P & Nandini Sidal, "Performance Analysis of Communication Standards in Vehicular Cloud Networks", 2018, Fourth International Conference on Computing Communication Control and Automation (ICCUBEA)
9. Ajay A & Nandini Sidal, "Framework for predictive Analytics with complex event processing", Journal of Data Mining and Management, Volume 2, Issue 3, 2017.
10. Ajay A & Nandini Sidal, Framework to Process High Frequency Trading using Complex Event Processing", Processing", International Journal of Knowledge-Based Computer Systems, Volume 05, Issue 01, 2017
11. Manjula & Nandini Sidal , Big Data and Analytics – A Journey Through Basic Concepts to Research Issues., LNCS, Springer AISC Series.
12. Manjula & Nandini Sidal, "Scalable First Story Detection using Storm for Twitter Data", was presented at IEEE 2014 International Conference on Advances in Engineering and Technology research, August 2014, Kanpur, India.
13. Manjula & Nandini Sidal, "Trend projection using Predictive Analytics", Journal of computer applications (IJCA) July 2014.
14. Nandini Sidal & Sreedevi R. Nagarmunoli, Agent-Based Aggregation of Cloud Services - A Research Agenda, Tutorial paper Proc. of Int. Conf. on Advances in Communication, Network, and Computing 2013
15. Nandini Sidal, Uttam V. Patil & Pankaja Patil, Grading and quality testing of food grains using neural network, International Journal of Research in Engineering and Technology, 2013; 2(11) 545–549
16. Nandini Sidal, Sunil Kumar S. M, "Automated Bidding in English Auctions using Cognitive Agents in Mobile E-commerce", International Journal of Information and Education Technology (IJJET), Vol. 2, No. 2, April 2012.
17. Nandini Sidal, Sunilkumar S. M , "Intelligent Agent-Based Model for Auction Service Discovery in Mobile E-commerce". International Journal of E-Business Research (IJEER), Vol. 8, No.1, 2012.
18. Nandini Sidal, Sunilkumar S. M , "Cognitive Agent-based Identification of Relevant Auctions", iBusiness Journal, Vol. 3, 2011, pp. 192-202.
19. Nandini Sidal, Sunilkumar S. M , "BDI Agent-based Final Price Prediction for English Auctions in Mobile E-Commerce", International Journal of World Review of Business Research, Vol. 1, No. 4, 2011.
20. Nandini Sidal, Sunilkumar S. M , "Service Discovery Techniques in Mobile E-Commerce", in

Encyclopedia of E-Business Development and Management in the Global Economy, In Lee, Ed. Pennsylvania: IGI Publishers, 2009, pp. 812-823.

21. Nandini Sidnal, Sunilkumar S. M, "Issues in m-commerce", Chapter Contribution to IGI Global book project, titled Research and Development in E-Business through Service-Oriented Solutions, Publisher: IGI Hershey, USA.

Presentations in International Conferences:

1. Invited to speak at a webinar on AI – "AI Boosting Fourth Industrial Revolution", July 7, 2021
2. Invited lecture on BlockChain Concepts at KLE College of Engineering and Technology, Bangalore, India, 2020.
3. Conducted PD session on "Active Cyber Attacks ", at ATMC, Sydney Campus, Nov 2019
4. Nandini Sidnal, "Blended Learning at MIT", On Invitation at Third conference on Digital Campus and Blended learning", Melbourne, 23/07/2019.
5. Nandini Sidnal, Sunilkumar S. M, "Service Discovery using Software Agents in Semantic Web "in International Conference on Control Automation, Robotics and Vision (ICARCV), Singapore, Dec 7-10, 2010.
6. Nandini Sidnal, Sunilkumar S. M, Context-Aware Mobile Commerce Using Agent Technology" proceedings of 14th International Conference on Advanced Computing and Communications, 20-23 December 2006 (ADCOM 2006) and is available in IEEE-Explore.
7. Manjula R, Nandini S, "A Survey on Unstructured Text Analytics Approaches for Qualitative Evaluation of Resumes", Presented in International Conference on Emerging Trends in Engineering Science., Belgaum, India.
8. Manjula R, Nandini S, "Scalable First Story Detection using Storm for Twitter Data", was presented at IEEE 2014 International Conference on Advances in Engineering and Technology research, August 2014, Kanpur, India.
9. Sridevi N, Nandini Sidnal, "Agent-Based Aggregation of Cloud Services – A Research Agenda", Tutorial paper Proc. of Int. Conf. on Advances in Communication, Network, and Computing 2013.
10. Nandini Sidnal, Narasimhan Ayachit Learner Centric Evaluation in India: a case study in 1st Global Conference "The Value of Knowledge, February 2007 Sydney, Australia.
11. Nandini Sidnal, K V Balaveera Reddy, Satellite-Based Technical Education: Reaching the Rural Areas, at ICORG 2006, National Institute of Rural Development, June 5-8 2006, Hyderabad.

Post Graduate Research supervision

Capstone Project outcomes Publications:

1. Abhinandan Patil, Nandini Sidnal "Code Cover: Code cover Enhancement", ACM SIGSOFT Software Engineering Notes, Vol 39, Issue 1, Jan 2014.
2. "Intelligent Scheduling in Health Care Domain", International Journal of Computer Science, Issues, Vol. 8, Issue 5, Sept. 2011.
3. Ravi, Nandini Sidnal "Multi-Agent Service Discovery and Distributed Computing using Jade", International Journal of Computational Intelligence Research, Vol. 7, Number 1, 2011, pp. 109-123.
4. Uma P, Nandini Sidnal, "Secure sharing of personal health records in the Cloud Environment", Best Paper Award, National Conference on Advances in Communication and Signal Processing 2014, St. Joseph Engineering College, Mangalore, India.
5. Nirupama P, Nandini Sidnal, "Bidding Strategy in Simultaneous English Auctions using Game Theory", International Conference on Advances in Computing (ICAdC-2012), MSRIT, Bangalore.

6. Sharda K, Nandini Sidnal, "Experimental Evaluation of Performance Gain of Multi-Core System Through OpenMP", Annual International Conference on Infocomm Technologies in Competitive Strategies, ICT 2010, Singapore.
7. Vaishali K, Nandini Sidnal, "An Intelligent Multi-Agent System for Adaptive E-learning", 2009 International Conference on Computer Engineering and Applications (ICCEA 2009) Manila, Philippines.

Research supervision -

Completed supervision of research thesis with the following titles:

1. Strengthening Mobile based services for Agriculture using Soft Computing (Final thesis Submitted)- Uttam Patil completed
2. Text Analytics for Query Auto-completion Process using semantics. Vidya Dandagi - Completed Colloquium
3. Semantic Model for Big Data Analysis using advanced analytics (Final thesis will be submitted by October 2019) - Manjula Ramannavar - Submitted Thesis for Defence
4. Enhancing Performance of VANET using cloud and Edge Technology for emergency services – Jayashree Patil – Submitted Thesis for Defence

Awards and Prizes:

1. Best paper award for "Big Data and Analytics – A Journey through Basic Concepts to Research Issues", at International Conference on Soft Computing System, Tamilnadu, India, April 2015.
2. Best Paper award for "Parallel and distributed computing using mobile agents", at Asia Pacific conference on Parallel and Distributed Computing Technologies VIT, Vellore, India, 13-15 Dec 2004.
3. Best Project award at REC Coimbatore National Conference on "Software Agents and Embedded systems", NCSAES, Sri Ramakrishna Engineering College, Coimbatore, Tamilnadu, India, 11-12 July 2003.
4. First prize in "Prathiba" National level paper presentation at Goa College of Engg, Faramagudi, Goa, India, 2003.
5. Book Publications:
 - Cognitive Computing for Bidding in E-Auctions, Scholar's Press.
 - C Programming Laboratory Hand Book for Beginners by Wiley publications.

Professional Body Membership and services

- Reviewer for International Journals: Elsevier, Inderscience publications, ECR, IJCI, JECI, IGI publications, IEEE Transactions on services computing.
- Member: Australian Computer Society (ACS)-to be renewed.
- Member, Computer Society of India (CSI) Gold Member No.: 11500744.
- Member International Association of Computer Science and Information Technology. (IACSIT) Member No.: 80344281.
- Member Indian Society of Technical Education (ISTE) Member No.: LM19040.