Technical Collection   Researcher Profile

Winter 11-1-2022

Artificial Intelligence and Applications

Sanjay Singh Dr.

List of Publications

October 12, 2022

References

[1] T. Kashinath, T. Jain, Y. Agrawal, T. Anand, and S. Singh, "End-to-end table structure recognition and extraction in heterogeneous documents," *Applied Soft Computing*, vol. 123, p. 108942, 2022. [Online]. Available: https://www.sciencedirect.com/science/article/pii/S1568494622002897

[2] P. Surana, M. Yusuf, and S. Singh, "Severity classification of mental health related tweets," in *2021 IEEE International Conference on Distributed Computing, VLSI, Electrical Circuits and Robotics (DISCOVER)*, 2021, pp. 336–341.

[3] S. Kamath, A. Srivastava, P. Kamath, S. Singh, and M. S. Kumar, "Application aware multiple constraint optimal paths for transport network using sdn," *IEEE Transactions on Network and Service Management*, vol. 18, no. 4, pp. 4376–4390, 2021.

[4] K. Ramesh, G. Gupta, and S. Singh, "Evaluating gender bias in Hindi-English machine translation," in *Proceedings of the 3rd Workshop on Gender Bias in Natural Language Processing*. Online: Association for Computational Linguistics, Aug. 2021, pp. 16–23. [Online]. Available: https://aclanthology.org/2021.gebnlp-1.3

[5] S. G. Aithal, A. B. Rao, and S. Singh, "Automatic question-answer pairs generation and question similarity mechanism in question answering system," *Applied Intelligence*, vol. 51, no. 11, pp. 8484–8497, Nov 2021. [Online]. Available: https://doi.org/10.1007/s10489-021-02348-9

[6] S. Bhat and S. Singh, "One-class support vector machine for data streams," in *2020 IEEE REGION 10 CONFERENCE (TENCON)*, 2020, pp. 1130–1135.

[7] B. Gaur, G. S. Saluja, H. B. Sivakumar, and S. Singh, "Semi-supervised deep learning based named entity recognition model to parse education section of resumes," *Neural Computing and Applications*, vol. 33, pp. 5705–5718, June 2021. [Online]. Available: https://doi.org/10.1007/s00521-020-05351-2

[8] S. Kamath, S. Singh, and M. S. Kumar, "Multiclass queueing network modeling and traffic flow analysis for sdn-enabled mobile core networks with network slicing," *IEEE Access*, vol. 8, pp. 417–430, 2020.

[9] T. Anand, K. Ramesh, and S. Singh, "Out of the closet : Lexicon based sentiment analysis on tweets about homosexuality," in *TENCON 2019 - 2019 IEEE Region 10 Conference*, Kochi, India, Oct 2019, pp. 731–736.

[10] M. Ahmed, A. Sriram, and S. Singh, "Short term firm-specific stock forecasting with bdi framework," *Computational Economics*, vol. 55, no. 3, March 2020. [Online]. Available: https://doi.org/10.1007/s10614-019-09911-0

[11] N. Mehta, S. Pai, and S. Singh, "Automated 3d sign language caption generation for video," *Universal Access in the Information Society*, vol. 19, no. 4, pp. 725–738, Nov 2020.

[12] M. J. Bhuva and S. Singh, "Symmetric key-based authenticated encryption protocol," *Information Security Journal: A Global Perspective*, vol. 28, no. 1-2, pp. 35–45, 2019. [Online]. Available: https://doi.org/10.1080/19393555.2019.1629514

[13] R. Paithankar, A. Verma, M. Agnihotri, and S. Singh, "Meta-learner with sparsified backpropagation," in *2019 9th International Conference on Cloud Computing, Data Science Engineering (Confluence)*, Jan 2019, pp. 315–319.

[14] A. Haque, A. V. Ayyar, and S. Singh, "A meta data mining framework for botnet analysis," *International Journal of Computers and Applications*, vol. 41, no. 5, pp. 392–399, 2019. [Online]. Available: https://doi.org/10.1080/1206212X.2018.1442136

[15] S. Kamath, S. Singh, and M. S. Kumar, "Performance analysis of out-band openflow switch architecture: The single node case," in *2018 IEEE International Conference on Advanced Networks and Telecommunications Systems (ANTS)*, Dec 2018, pp. 1–5.

[16] A. Aithal and S. Singh, "Iot based driving risk assessment and warning system," in *2018 International Conference on Smart Systems and Inventive Technology (ICSSIT)*, Tirunelveli, India, Dec 2018, pp. 282–286.

[17] A. Haque, A. Ayyar, and S. Singh, "Chroot hardening through system calls modification," in *2018 8th International Conference on Cloud Computing, Data Science Engineering (Confluence)*, Jan 2018, pp. 491–496.

[18] J. Mehta, E. Ramnani, and S. Singh, "Face detection and tagging using deep learning," in *2018 International Conference on Computer, Communication, and Signal Processing (ICCCSP)*, Feb 2018, pp. 1–6.

[19] B. R. Ranoliya, N. Raghuwanshi, and S. Singh, "Chatbot for university related faqs," in *2017 International Conference on Advances in Computing, Communications and Informatics (ICACCI)*, Sept 2017, pp. 1525–1530.

[20] K. Brahmbhatt, A. R. Pai, and S. Singh, "Neural network approach for vision-based track navigation using low-powered computers on mavs," in *2017 International Conference on Advances in Computing, Communications and Informatics (ICACCI)*, Sept 2017, pp. 578–583.

[21] M. Gunturu, G. N. Shakarad, and S. Singh, "Fitness function to find game equilibria using genetic algorithms," in *2017 International Conference on Advances in Computing, Communications and Informatics (ICACCI)*, Sept 2017, pp. 1531–1534.

[22] M. Supriya and S. Singh, "Multi-modality face recognition: An information theoretic approach," in *2017 International Conference on Advances in Computing, Communications and Informatics (ICACCI)*, Sept 2017, pp. 1080–1084.

[23] S. Nanda, R. Gopakumar, and S. Singh, "Extracting quality relations from categorical data using modified qube algorithm," in *2017 International Conference on Advances in Computing, Communications and Informatics (ICACCI)*, Sept 2017, pp. 651–655.

[24] S. S. Padiyar and S. Singh, "Word based thematic game on indian mythology," in *2017 International Conference on Advances in Computing, Communications and Informatics (ICACCI)*, Sept 2017, pp. 1619–1623.

[25] M. S. Hegde and S. Singh, "Safe buzz: Adaptive security for multi-agents through situational awareness," *Int. J Autonomous and Adaptive Communication Systems*, vol. 10, no. 2, pp. 192–212, 2017.

[26] M. Dang and S. Singh, "Context based interesting tweet recommendation framework," in *International IEEE India Conference (INDICON)*, Banagalore, India, Dec 2016, pp. 1–5.

[27] A. Mehrotra, M. Sarreddy, and S. Singh, "Detection of fake twitter followers using graph centrality measures," in *International Conference on Contemporary Computing and Informatics*, Noida, India, Dec 2016, pp. 539–544.

[28] V. Mathur, Y. Stavrakas, and S. Singh, "Intelligence analysis of tay twitter bot," in *International Conference on Contemporary Computing and Informatics*, Noida, India, Dec 2016, pp. 257–262.

[29] A. Rohella and S. Singh, "Path independent real time points of interest detection in road networks," in *International Conference on Contemporary Computing and Informatics*, Noida, India, Dec 2016, pp. 686–691.

[30] R. Gupta, S. M. Fayaz, and S. Singh, "Identification of gene network motifs for cancer disease diagnosis," in *2016 IEEE Distributed Computing, VLSI, Electrical Circuits and Robotics (DISCOVER)*, Aug 2016, pp. 179–184.

[31] H. Qamar and S. Singh, "Mutual fund performance prediction," in *2016 IEEE Distributed Computing, VLSI, Electrical Circuits and Robotics (DISCOVER)*, Aug 2016, pp. 185–189.

[32] M. K. S. G. Krishna and S. Singh, "Identification of causal relationships among clinical variables for cancer diagnosis using multi-tenancy," in *2016 International Conference on Advances in Computing, Communications and Informatics (ICACCI)*, Sept 2016, pp. 1511–1516.

[33] S. Sharmal and S. Singh, "Unemployment rates forecasting using supervised neural networks," in *Proceedings of Sixth International Conference on Cloud Systems and Big Data Engineering (Confluence 2016)*. Noida, India: IEEE, Jan 2016, pp. 28–33.

[34] A. Kishore and S. Singh, "Natural language image descriptor," in *Proceedings of Third IEEE International Conference on Recent Advances in Intelligent Computational Systems*. Trivandrum, India: IEEE, Dec 2015, pp. 110–115.

[35] S. Jindal and S. Singh, "Image sentiment analysis using deep convolutional neural networks with domain specific fine tuning," in *Proceedings of IEEE International Conference on Information Processing (ICIP)*. Pune, India: IEEE, Dec 2015, pp. 1–5.

[36] A. Anusha and S. Singh, "Is that twitter hashtag worth reading," in *Proceedings of the Third International Symposium on Women in Computing and Informatics*, ser. WCI '15. New York, NY, USA: ACM, 2015, pp. 272–277. [Online]. Available: http://doi.acm.org/10.1145/2791405.2791526

[37] R. K. Ranjitha and S. Singh, "Is stack overflow overflowing with questions and tags," in *Proceedings of the Third International Symposium on Women in Computing and Informatics*, ser. WCI '15. New York, NY, USA: ACM, 2015, pp. 278–283. [Online]. Available: http://doi.acm.org/10.1145/2791405.2791537

[38] A. Haque and S. Singh, "Anti-scraping application development," in *Advances in Computing, Communications and Informatics (ICACCI), 2015 International Conference on*. IEEE, Aug 2015, pp. 869–874.

[39] B. Pradeep and S. Singh, "Three way authentication protocol for privacy preserving and ownership authentication transfer for ubiquitous computing," *WSEAS Transactions on communications*, vol. 13, no. 1, pp. 444–457, 2014. [Online]. Available: http://www.wseas.org/multimedia/journals/communications/2014/a545704-265.pdf

[40] M. Ahmed, A. Sriram, and S. Singh, "Towards a generic framework for short term firm-specific stock forecasting," in *Advances in Computing, Communications and Informatics (ICACCI, 2014) International Conference on*, Noida, India, Sept 2014, pp. 2681–2688. [Online]. Available: http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=6968411&isnumber=69

[41] A. Patil and S. Singh, "Differential private random forest," in *Advances in Computing, Communications and Informatics (ICACCI, 2014) International Conference on*, Noida, India, Sept 2014, pp. 2623–2630.

[42] V. Singh, P. Dahiya, and S. Singh, "Smart card based password authentication and user anonymity scheme using ecc and steganography," in *Advances in Computing, Communications and Informatics (ICACCI, 2014) International Conference on*, Noida, India, Sept 2014, pp. 1614–1621.

[43] R. Mishra, M. Zeeshaan, and S. Singh, "Two way concurrent buffer system without deadlock in various time models using timed automata," *International Journal of Computer Information Systems and Industrial Management Applications*, vol. 6, pp. 55–65, 2014. [Online]. Available: http://www.mirlabs.org/ijcisim/regular_papers_2014/IJCISIM_6.pdf

[44] A. Kumar and S. Singh, "Detection of user cluster with suspicious activity in online social networking sites," in *Advanced Computing, Networking and Security (ADCONS), 2013 2nd International Conference on*, Dec 2013, pp. 220–225.

[45] H. Jnanamurthy, C. Warty, and S. Singh, "Threat analysis and malicious user detection in reputation systems using mean bisector analysis and cosine similarity (mbacs)," in *India Conference (INDICON), 2013 Annual IEEE*, Dec 2013, pp. 1–6.

[46] M. S. Hegde and S. Singh, "Alert-bdi: Bdi model with adaptive alertness through situational awareness," in *Proceedings of Second International Conference on Advances in Computing, Communication and Informatics (ICACCI 2013)*, Mysore, India, August 2013, pp. 442–447. [Online]. Available: http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=6637212&isnumber=6637135

[47] J. HK and S. Singh, "Detection and filtering of collaborative malicious users in reputation system using quality repository approach," in *Proceedings of Second International Conference on Advances in Computing, Communication and Informatics (ICACCI 2013)*, Mysore, India, August 2013, pp. 466–471. [Online]. Available: http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=6637216&isnumber=6637135

[48] R. Gupta, A. Jain, S. Rana, and S. Singh, "Contextual information based recommender system using singular value decomposition," in *Proceedings of Second International Conference on Advances in Computing,*

Communication and Informatics (ICACCI 2013), Mysore, India, August 2013, pp. 2084–2089. [Online]. Available: http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=6637502&isnumber=6637135

[49] M. S. Hegde and S. Singh, "Aware-bdi: An extension of the bdi model incorporating situational awareness," in *Proceedings of the 2013 International Conference on Communication Systems and Network Technologies*, ser. CSNT '13. Washington, DC, USA: IEEE Computer Society, 2013, pp. 100–104. [Online]. Available: http://dx.doi.org/10.1109/CSNT.2013.30

[50] G. Khirbat, R. Gupta, and S. Singh, "Optimal neural network architecture for stock market forecasting," in *Proceedings of the 2013 International Conference on Communication Systems and Network Technologies*, ser. CSNT '13. Washington, DC, USA: IEEE Computer Society, 2013, pp. 557–561. [Online]. Available: http://dx.doi.org/10.1109/CSNT.2013.120

[51] R. Gupta, N. Garg, and S. Singh, "Stock market prediction accuracy analysis using kappa measure," in *Proceedings of the 2013 International Conference on Communication Systems and Network Technologies*, ser. CSNT '13. Washington, DC, USA: IEEE Computer Society, 2013, pp. 635–639. [Online]. Available: http://dx.doi.org/10.1109/CSNT.2013.136

[52] T. Jacob, M. Raman, and S. Singh, "Intrusion detection in zero knowledge system using model checking approach," in *Computer Networks & Communications (NetCom)*, ser. Lecture Notes in Electrical Engineering, N. Chaki, N. Meghanathan, and D. Nagamalai, Eds. Springer New York, 2013, vol. 131, pp. 453–465. [Online]. Available: http://dx.doi.org/10.1007/978-1-4614-6154-8_45

[53] B. H. Pradeep and S. Singh, "Ownership authentication transfer protocol for ubiquitous computing devices," in *Computer Communication and Informatics (ICCCI), 2013 International Conference on*, Jan. 2013, pp. 1 –6. [Online]. Available: http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=6466133&isnumber=6466095

[54] R. Gupta, G. Khirbat, and S. Singh, "A novel method to calculate CTR for sponsored search," Accepted for Publication in Proceedings of International Conference on Artificial Intelligence and Soft Computing (AISC 2013), 2013.

[55] R. Kulshreshtha, A. Kamboj, and S. Singh, "Decoding robustness performance comparison for qr and data matrix code," in *Proceedings of the Second International Conference on Computational Science, Engineering and Information Technology*, ser. CCSEIT '12. New York, NY, USA: ACM, 2012, pp. 722–731. [Online]. Available: http://doi.acm.org/10.1145/2393216.2393337

[56] A. Divya and S. Singh, "Differentiated qos with modified c/i based scheduling algorithm," in *Information and Communication Technologies (WICT), 2012 World Congress on*, 30 2012-nov. 2 2012, pp. 835 –840. [Online]. Available: http://ieeexplore.ieee.org/stamp/stamp.jsp?tp= &arnumber=6409191&isnumber=6409038

[57] P. Mundra, A. K. Maurya, and S. Singh, "Enhanced mining association rule algorithm with reduced time and space complexity," in *India Conference (INDICON), 2012 Annual IEEE*, dec. 2012, pp. 1105 –1110. [Online]. Available: http://ieeexplore.ieee.org/stamp/stamp.jsp? tp=&arnumber=6420782&isnumber=6420575

[58] A. Sinha, A. Ry, and S. Singh, "Modeling & verification of sliding window protocol with data loss and intruder detection using nusmv," in *Proceedings of the Second International Conference on Computational Science, Engineering and Information Technology*, ser. CCSEIT '12. New York, NY, USA: ACM, 2012, pp. 352–357. [Online]. Available: http://doi.acm.org/10.1145/2393216.2393276

[59] M. S. Hegde, H. Jnanamurthy, and S. Singh, "Formal verification of the extensible authentication protocol using spin," in *Proceedings of the Second International Conference on Computational Science, Engineering and Information Technology*, ser. CCSEIT '12. New York, NY, USA: ACM, 2012, pp. 365–371. [Online]. Available: http://doi.acm.org/10.1145/2393216.2393278

[60] B. Kaur, A. Saxena, and S. Singh, "Web opinion mining for social networking sites," in *Proceedings of the Second International Conference on Computational Science, Engineering and Information Technology*, ser. CCSEIT '12. New York, NY, USA: ACM, 2012, pp. 598–605. [Online]. Available: http://doi.acm.org/10.1145/2393216.2393316

[61] V. K. Santhalia and S. Singh, "Design and development of a desktop monitoring system," in *Proceedings of the Second International Conference on Computational Science, Engineering and Information Technology*, ser. CCSEIT '12. New York, NY, USA: ACM, October 2012, pp. 620–625. [Online]. Available: http://doi.acm.org/10.1145/2393216.2393319

[62] K. A. Sharath, H. V. Vishesh, and S. Singh, "Erroneous state detection in piecewise fifo system," in *Information and Communication Technologies (WICT), 2012 World Congress on*, 30 2012-nov. 2 2012, pp. 841 –845. [Online]. Available: http://ieeexplore.ieee.org/stamp/stamp.jsp?tp= &arnumber=6409192&isnumber=6409038

[63] R. Mishra, M. Zeeshaan, and S. Singh, "Modeling two way concurrent buffer system using timed automata in uppaal," in *Information and Communication Technologies (WICT), 2012 World Congress on*, 30 2012-nov. 2 2012, pp. 846 –851. [Online]. Available: http://ieeexplore.ieee. org/stamp/stamp.jsp?tp=&arnumber=6409193&isnumber=6409038

[64] M. S. Hegde, H. Jnanamurthy, and S. Singh, "Modeling and verification of extensible authentication protocol using spin model checker," *International Journal of Network Security and Its Applications (IJNSA)*, vol. 4, no. 6, pp. 81–98, November 2012. [Online]. Available: http://airccse.org/journal/nsa/1112nsa06.pdf

[65] A. Maurya, M. Choudhary, P. Ajeyaraj, and S. Singh, "Modeling and verification of fiat-shamir zero knowledge authentication protocol," in *Advances in Computer Science and Information Technology. Computer Science and Engineering*, ser. Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering, N. Meghanathan, N. Chaki, and D. Nagamalai, Eds., vol. 85. Bangalore, India: Springer Berlin Heidelberg, 2012, pp. 61–70. [Online]. Available: http://dx.doi.org/10.1007/978-3-642-27308-7_6

[66] K. Shetty, S. Bhat, and S. Singh, "Symbolic verification of web crawler functionality and its properties," in *Computer Communication and Informatics (ICCCI), 2012 International Conference on*, jan. 2012, pp. 1 –6. [Online]. Available: http://ieeexplore.ieee.org/stamp/stamp.jsp?tp= &arnumber=6158649&isnumber=6158648

[67] P. Hanumanthappa and S. Singh, "Privacy preserving and ownership authentication in ubiquitous computing devices using secure three way authentication," in *Innovations in Information Technology (IIT), 2012 International Conference on*, Al Ain, UAE, march 2012, pp. 107 –112. [Online]. Available: http://ieeexplore.ieee.org/stamp/stamp.jsp?tp= &arnumber=6207712&isnumber=6207707

[68] V. Vishal, S. Gugwad, and S. Singh, "Modeling and verification of agent based adaptive traffic signal using symbolic model verifier," *International Journal of Computer Applications*, vol. 53, no. 3, pp. 23–29, Sep 2012. [Online]. Available: http://www.ijcaonline.org/archives/volume53/ number3/8402-2321

[69] K. Shetty and S. Singh, "Cloud based application development for accessing restaurant information on mobile device using lbs," *International Journal of UbiComp (IJU)*, vol. 2, no. 4, pp. 37–49, Oct 2011. [Online]. Available: http://airccse.org/journal/iju/papers/2411iju04.pdf

[70] S. Shetty, S. K. H.S, M. B. Namala, and S. Singh, "Symbolic verification of a strength based multi-agent argumentation scheme," *International Journal of Artificial Intelligence & Applications (IJAIA)*, vol. 2, no. 2, pp. 129–139, April 2011. [Online]. Available: http: //airccse.org/journal/ijaia/papers/0411ijaia10.pdf

[71] S. Shetty, H. Kiran, M. Namala, and S. Singh, "Logical modeling and verification of a strength based multi-agent argumentation scheme using nusmv," in *Advances in Computer Science and Information*

Technology, ser. Communications in Computer and Information Science, N. Meghanathan, B. Kaushik, and D. Nagamalai, Eds., vol. 131. Springer Berlin Heidelberg, 2011, pp. 378–387. [Online]. Available: http://dx.doi.org/10.1007/978-3-642-17857-3_38

[72] V. Saralaya, J. Kishore, S. Reddy, R. Pai, and S. Singh, "Modeling and verification of chess game using nusmv," in *Advances in Computing and Communications*, ser. Communications in Computer and Information Science, A. Abraham, J. Lloret Mauri, J. Buford, J. Suzuki, and S. Thampi, Eds., vol. 191. Springer Berlin Heidelberg, 2011, pp. 460–470. [Online]. Available: http://dx.doi.org/10.1007/978-3-642-22714-1_47

[73] S. Pai, Y. Sharma, S. Kumar, R. Pai, and S. Singh, "Formal verification of oauth 2.0 using alloy framework," in *Communication Systems and Network Technologies (CSNT), 2011 International Conference on*, june 2011, pp. 655 –659. [Online]. Available: http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5966531&isnumber=5966391

[74] P. Mundra, S. Shukla, M. Sharma, R. Pai, and S. Singh, "Modeling and verification of kerberos protocol using symbolic model verifier," in *Communication Systems and Network Technologies (CSNT), 2011 International Conference on*, Jammu, India, june 2011, pp. 651 – 654. [Online]. Available: http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5966530&isnumber=5966391

[75] V. Saralaya, K. J.K., S. Reddy, and S. Singh, "Modeling and verification of server aided verification protocol using nusmv," in *Trends in Computer Science, Engineering and Information Technology*, ser. Communications in Computer and Information Science, D. Nagamalai, E. Renault, and M. Dhanuskodi, Eds., vol. 204. Springer Berlin Heidelberg, 2011, pp. 486–495. [Online]. Available: http://dx.doi.org/10.1007/978-3-642-24043-0_49

[76] P. Mundra, M. Sharma, S. Shukla, and S. Singh, "Modeling and verification of inter realm authentication in kerberos using symbolic model verifier," in *Trends in Computer Science, Engineering and Information Technology*, ser. Communications in Computer and Information Science, D. Nagamalai, E. Renault, and M. Dhanuskodi, Eds., vol. 204. TN, India: Springer Berlin Heidelberg, 2011, pp. 496–506. [Online]. Available: http://dx.doi.org/10.1007/978-3-642-24043-0_50

[77] C. Mouli and S. Singh, "Physical layer authentication in wired and wireless communication systems," in *Advances in Digital Image Processing and Information Technology*, ser. Communications in Computer and Information Science, D. Nagamalai, E. Renault, and M. Dhanuskodi, Eds., vol. 205. TN, India: Springer Berlin Heidelberg, 2011, pp. 291–304. [Online]. Available: http://dx.doi.org/10.1007/978-3-642-24055-3_30

[78] K. Shetty and S. Singh, "Cloud based application development for mobile devices for accessing lbs," in *Advances in Parallel Distributed*

Computing, ser. Communications in Computer and Information Science, D. Nagamalai, E. Renault, and M. Dhanuskodi, Eds., vol. 203. TN, India: Springer Berlin Heidelberg, 2011, pp. 532–543. [Online]. Available: http://dx.doi.org/10.1007/978-3-642-24037-9_53

[79] S. Singh, M. Kumar, and H. Mruthyunjaya, "Performance analysis of error control coding techniques for peak-to-average power ratio reduction of multicarrier signals," *International Journal of Information Processing (IJIP)*, vol. 4, no. 1, pp. 22–35, 2010.

[80] ——, "A generalized closed form relation for ber of qpsk/m-qam over fading channel," in *Proceedings of International Conference on Industrial and Information Systems (ICIIS)*, Surathkal, India, July-Aug 2010, pp. 161–165. [Online]. Available: http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5578716&isnumber=5578626

[81] A. Aryan and S. Singh, "Securing location privacy in augmented reality," in *Proceedings of International Conference on Industrial and Information Systems (ICIIS)*, Surathkal, India, July-Aug 2010, pp. 172–176. [Online]. Available: http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5578714&isnumber=5578626

[82] A. Lele, A. Kumar, R. H.M., and S. Singh, "Exact schedulability analysis of global multi-processor iuf scheduling using symbolic model checking," in *Proceedings of International Conference on Industrial and Information Systems (ICIIS)*, Surathkal, India, July-Aug 2010, pp. 281–285. [Online]. Available: http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5578694&isnumber=5578626

[83] A. Moily, G. Prasanna, K. S. Shetty, and S. Singh, "Model checking message exchange in location based services," in *Proceedings of International Conference on Computer and Communication Technology (ICCCT)*, Allahabad, India, Sep 2010, pp. 164–167. [Online]. Available: http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5640417&isnumber=5640373

[84] S. Adyanthaya, S. Rukmangada, A. Tiwari, and S. Singh, "Modeling freshness concept to overcome replay attack in kerberos protocol using nusmv," in *Proceedings of International Conference on Computer and Communication Technology (ICCCT)*, Allahabad, India, Sep 2010, pp. 125–129. [Online]. Available: http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5640425&isnumber=5640373

[85] A. Aryan and S. Singh, "Protecting location privacy in augmented reality using k-anonymization and pseudo-id," in *Proceedings of International Conference on Computer and Communication Technology (ICCCT)*, Allahabad, India, Sep 2010, pp. 119–124. [Online]. Available: http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5640424&isnumber=5640373

[86] S. Singh, M. Kumar, and H. Mruthyunjaya, "Reduction of peak-to-average ratio of an ofdm signal using scrambling coding," *International Journal of Computing Science and Communication Technologies (IJCSCT)*, vol. 1, no. 2, pp. 109–115, Jan 2009.

[87] S. Singh, M. S. Kumar, and H. S. Mruthyunjaya, "Effect of peak-to-average power ratio reduction on the multicarrier communication system performance parameters," *International Journal of Electrical, Computer, Energetic, Electronic and Communication Engineering*, vol. 3, no. 4, pp. 908 – 915, 2009.

[88] ——, "A performance comparison of golay and reed-muller coded ofdm signal for peak-to-average power ratio reduction," *International Journal of Electrical, Computer, Energetic, Electronic and Communication Engineering*, vol. 3, no. 4, pp. 999 – 1004, 2009.

[89] S. Singh, M. Kumar, and H. Mruthyunjaya, "Peak-to-average power ratio reduction performance comparision of golay and reed-muller coded ofdm signal," in *Proceedings of International Conference on Information Processing (ICIP)*, Bangalore, India, Aug 2009, pp. 238–247.

[90] P. Agarwal, A. Prerna Sharma, and S. Singh, "Design and development of an online voting system," in *Proceedings of International Conference on Information Processing (ICIP)*, Bangalore, India, Aug 2009, pp. 524–529.

[91] V. R. R and S. Singh, "Providing confidentiality to nemo in an efficient way using session key generation," in *Proceedings of International Conference on Information Processing (ICIP)*, Bangalore, India, Aug 2009, pp. 284–289.

[92] S. Singh, M. Kumar, and B. Satayanarayana, "Papr reduction of multicarrier signal using error control coding techniques," in *Proceeding on Resource Utilization and Intelligent System (INCRUIS)*, vol. 2, TN,India, Jan 2008, pp. 477–481.

[93] S. Singh, M. Kumar, and H. Mruthyunjaya, "Peak-to-average power ratio reduction of an ofdm signal using scrambling coding," in *Proceedings of International Conference on Advanced Computing and Communication Technologies (ICACCT)*, Panipat, India, Nov 2008.

[94] S. Singh and M. Kumar, "Multicarrier modulation system and its challenges," in *Proceedings of the international conference on ADvances in ELectronics and COmmunications (iconADELCO)*, TN, India, Feb 2007, pp. 711–720.

[95] N. Saldana, M. P. MM, and S. Singh, "Mobile device based social networking application," in *Proceedings of International Conference on Advances in Information and Communication Technology (ICICOT)*, Manipal, India, Dec 2007, pp. 422–425.

[96] S. Singh, A. Karnwal, N. Prasad, R. D'Souza, and A. Shenoy, "Fraud detection using neural networks," in *Proceedings, National Conference CISCON-06*, Manipal, India, Nov 2006.

[97] S. Singh, K. Shama, and U. Niranjan, "Wavelet based acoustic measures for pathological voice analysis," in *Proceedings of Indo-Australian Symposium on Biomaterials and Bioengineering*, Manipal, Inida, Feb 2004.