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### *List of Publications.*

#### *Conference Publications.*

- 1. Saurav Ghosh**, N. Das, T. Sarkar. “A Hierarchical Multi-Radio Multi-Channel Assignment Approach in Wireless Mesh Network”. *Second International Conference on Advances in Communication Network and Computing (CNC 2011)*, Proceedings published by Springer-Verlag Berlin Heidelberg in the series Communications in Computer and Information Science (CCIS), vol. 142, pp. 487-491, 2011, Bangalore, India, March 10-11, 2011. doi: 10.1007/978-3-642-19542-6\_94. **Print ISBN:** 978-3-642-19541-9. **Online ISBN:** 978-3-642-19542-6. Available online on [www.springer.com](http://www.springer.com).
- 2. Saurav Ghosh**, C. Ghorai. “Evaluating the Performance of Modified DSR in presence of Noisy Links using QUALNET Network Simulator in MANET” Proc. of *International Conference on Control, Communication and Computer Technology (CCCT-2011)*, pp. 144-151, New Delhi, India, August 6-7, 2011. ISBN: 978-81-920913-9-6. Proc. of International Journal of Smart Sensors and Ad Hoc Networks (IJSSAN), Volume-1, Issue-2, 2011. ISSN No. 2248-9738.
- 3. I. Bhattacharya, Saurav Ghosh**, S. Kundu. “Maximizing Lifetime of Wireless Sensor Network through Extended LEACH Algorithm”. The Third International Workshop on Ad Hoc & Ubiquitous Computing (AUC- 3.0), Proceeding in : Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering (LNICST) Series, Springer-Verlag Berlin Heidelberg, pp. 377-386,

Bangalore, India, January 2-4, 2012. ISBN: 978-3-642-27316-2. ISSN: 1867-8211. doi: 10.1007/978-3-642-27317-9\_39. Available online on [www.springer.com](http://www.springer.com).

**4. Saurav Ghosh**, S. Gain, C. Ghorai. "Modified Efficient Zone Routing Protocol for MANET" in proc. of *National Technical Symposium on Advancements in Computing Technologies (NTSACT-2012)*, pp. 43-47, Department of Computer Science, Amrutvahini College of Engineering, Sangamner, Maharashtra, India, February 24-25, 2012. ISBN 978-1-4675-1444-6.

**5. Saurav Ghosh**, S. Gain, C. Ghorai. "Improved Zone Routing Protocol with Reliability and Security using QualNet Network Simulator" in proc. of *Second international Conference on Advances in Computing, Control and Communication (CCN)*, pp. 90-95, June 17, 2012, New Delhi, India. ISBN: 978-981-07-2579-2. doi: 10.3850/978-981-07-2579-2 CCN-499. ISI Thomson Indexed. Seek Digital Library URL: <http://seekdl.org/nm.php?pdf=ccn-12-20.pdf>

**6. S. Thepade, R.K Das, Saurav Ghosh.**"Image Classification Using Advanced Block Truncation Coding With Ternary Image Maps" in proc. of *Third International Conference on Advances in Computing, Communication and Control (ICAC3) 2013*, Mumbai, India, January 18-19, 2013. Proceedings published in: *Advances in Computing, Communication, and Control Communications in Computer and Information Science*, vol. 361, 2013, pp 500-509, Series ISSN: 1865-0929. doi: 10.1007/978-3-642-36321-4\_48. Print ISBN: 978-3-642-36320-7. Online ISBN: 978-3-642-36321-4. Available online on [www.springer.com](http://www.springer.com).

**7. H. B Kekre, S. Thepade, R.K Das, Saurav Ghosh,** "Multilevel Block Truncation Coding with Diverse Color Spaces for Image Classification" , *IEEE International Conference on Advances in Technology and Engineering, (ICATE 2013)*, January 23-25, 2013, Mumbai,India. Organized by SVKM's NMIMS, Mumbai, India. Print ISBN: 978-1-4673-5618-3 doi: 10.1109/ICAdeTE.2013.6524718. **INSPEC Accession Number:** 13539676. Proceedings in IEEE Explore Digital Library (Scopus indexed).

**8. S. Thepade, R.K Das, Saurav Ghosh.** "Performance comparison of feature vector extraction techniques in RGB color space using block truncation coding for content based image classification with discrete classifiers" in proc. of *IEEE Annual IEEE India Conference (INDICON2013)*, IIT Bombay, Mumbai 13-15 Dec. 2013. **INSPEC Accession Number:** 14062444, Electronic ISBN: 978-1-4799-2275-8, Print ISSN: 2325-940X, Electronic ISSN: 2325-9418. doi: 10.1109/INDCON.2013.6726053. Proceedings in IEEE Explore Digital Library (Scopus indexed).

**9. Saurav Ghosh**, S. Mondal, U. Biswas. "A Modified LEACH using ACO for data collection in WSN: LEACH-ACO." in *Proc. of Third International Conference on Computing and Systems 2016 (ICCS 2016)*, Department of Computer Science, University of Burdwan, Golapbag, Burdwan 713104, pp. 39-44, January 21-22, 2016. ISBN: 978-93-85777-13-4.

**10. Saurav Ghosh**, S. Mondal, U. Biswas. "Enhanced PEGASIS using Ant Colony Optimization for data gathering in WSN" in *Proc. of IEEE International Conference on Information Communication & Embedded Systems - 2016 (ICICES 2016)*, S.A. Engineering College, Poonamallee – Avadi Road, Veeraraghavapuram, Thiruverkadu, Chennai, 25-26, Feb, 2016. **INSPEC Accession Number:** 16159490, Electronic ISBN: 978-1-5090-2552-7, Print on Demand (PoD) ISBN: 978-1-5090-2553-4, doi: 10.1109/ICICES.2016.7518930. Proceedings in IEEE Explore Digital Library (Scopus indexed).

**11. Saurav Ghosh, S. Mondal, U. Biswas.** “A Dominating Set based modified LEACH using Ant Colony Optimization for data gathering in WSN” in *Proc. of IEEE International Conference on Advances in Electrical, Electronics, Information, Communication and Bioinformatics-2016 (AEEICB - 2016)*, Prathyusha Institute of Technology and Management (PITAM), Chennai, 27-28, Feb, 2016. INSPEC Accession Number: 16228116, Electronic ISBN: 978-1-4673-9745-2, Print on Demand (PoD) ISBN: 978-1-4673-9746-9, doi: 10.1109/AEEICB.2016.7538315. Proceedings in IEEE Explore Digital Library (Scopus indexed).

**12. Saurav Ghosh, S. Mondal, U. Biswas.** “Fuzzy C Means based Hierarchical Routing Protocol in WSN with Ant Colony Optimization” in *proc. of IEEE International Conference on Applied and Theoretical computing and Communication Technology 2016 (iCATccT- 2016)*, S.J.B Institute of Technology, Kengeri, Bengaluru, Karnataka, India, 21-23 July, 2016. ISBN: 978-1-5090-2398-1. INSPEC Accession Number: 16850839, Electronic ISBN: 978-1-5090-2399-8, USB ISBN: 978-1-5090-2398-1, Print on Demand(PoD) ISBN: 978-1-5090-2400-1, doi: 10.1109/ICATCCT.2016.7912021. Proceedings in IEEE Explore Digital Library (Scopus indexed).

**13. Saurav Ghosh, S. Mondal, U. Biswas.** “Efficient Data Gathering in WSN using Fuzzy C means and ant Colony Optimization” in *proc. of IEEE International Conference on Information Science 2016 (ICIS 2016)*, College of Engineering, Cherthala, Kerala, India, 12-13 August, 2016. INSPEC Accession Number: 16657417, Electronic ISBN: 978-1-5090-1987-8, Print on Demand (PoD) ISBN: 978-1-5090-1988-5, doi: 10.1109/INFOSCI.2016.7845337. Proceedings in IEEE Explore Digital Library (Scopus indexed).

**14. S. Mondal, Saurav Ghosh, U. Biswas.** “ACOHC: Ant Colony Optimization based Hierarchical Clustering in Wireless Sensor Network” in *proc. of IEEE International Conference on Emerging Technological Trends 2016 (ICETT 2016)*, Baseliros Mathews II, College of Engineering, Kollam, Kerala, India, 21-22 October, 2016. INSPEC Accession Number: 16726982, Electronic ISBN: 978-1-5090-3751-3, DVD ISBN: 978-1-5090-3750-6, Print on Demand(PoD) ISBN: 978-1-5090-3752-0, doi: 10.1109/ICETT.2016.7873737. Proceedings in IEEE Explore Digital Library (Scopus indexed).

**15. S. Mondal, Saurav Ghosh, P.Dutta, U.Biswas.** “Energy Efficient Data Gathering in Wireless Sensor Networks using Rough Fuzzy C Means and ACO”. *Springer International Conference on Industry, Interactive, Innovations in Science, Engineering and Technology 2016(ISSET-16)*, J.I.S College of Engineering, Kalyani, Nadia, India, October 25-26. Proceedings in Lecture Notes in Networks and Systems (LNNS) published by Springer. Print ISBN: 978-981-10-3952-2, Online ISBN : 978-981-10-3953-9, doi:10.1007/978-981-10-3953-9\_16. Available online on [www.springer.com](http://www.springer.com).

**16. S. Mondal, Saurav Ghosh, U. Biswas.** “A Dominating Set Based Data Gathering in Wireless Sensor Network using Fuzzy Logic and ACO”. *ACM International Conference on Informatics and Analytics (ICIA-16)*, Pondicherry Engineering College, Pondicherry, Article No. 75, 25 – 26 August, 2016. ISBN: 978-1-4503-4756-3. doi: 10.1145/2980258.2980415. Proceedings in ACM Digital Library (indexed in DBLP).

**17. S. Mondal, P.Dutta, Saurav Ghosh, U. Biswas.** “Energy Efficient Rough Fuzzy Set based Clustering and Cluster Head Selection for WSN” in *proc. of IEEE 2nd International Conference on Next Generation Computing Technologies 2016 (NGCT-2016)*, University of Energy and Petroleum Studies (UPES), Dehradun, India, 14-16 October 2016. ISBN: 978-5090-3257-0. INSPEC Accession Number: 16743877, Electronic ISBN: 978-1-5090-3257-0, DVD ISBN: 978-1-5090-3256-3, Print on

Demand(PoD) ISBN: 978-1-5090-3258-7, doi: 10.1109/NGCT.2016.7877456. Proceedings in IEEE Explore Digital Library (Scopus indexed).

**18.** R.K Das , **Saurav Ghosh** , D. Mukherjee. “Bayesian Estimator Based Weather Forecasting using WSN “ 2018 in proc. of *IEEE 3rd International Conference and Workshops on Recent Advances and Innovations in Engineering (ICRAIE)*, Jaipur, India, 22-25 Nov. 2018. Electronic ISBN: 978-1-5386-4525-3, Print on Demand(PoD) ISBN: 978-1-5386-4526-0, INSPEC Accession Number: 18655796. doi: 10.1109/ICRAIE.2018.8710410. Proceedings in IEEE Explore Digital Library (Scopus indexed).

**19.** S. Mondal , **Saurav Ghosh** , S. Khatua , R. Das, U. Biswas. “Cost Effective Algorithms for Participant Selection Problem in Mobile Crowd Sensing Environment” in proc. of *Fifth IEEE International Conference on Parallel, Distributed and Grid Computing (PDGC-2018)* , Solan Himachal Pradesh, India, 20-22 Dec. 2018. Electronic ISBN: 978-1-7281-0646-5. CD-ROM ISBN: 978-1-7281-0647-2. Print on Demand(PoD) ISBN: 978-1-7281-0648-9. Electronic ISSN: 2573-3079. Print on Demand(PoD) ISSN: 2573-3087. INSPEC Accession Number: 18792176. doi: 10.1109/PDGC.2018.8745988. Proceedings in IEEE Explore Digital Library (Scopus indexed).

**20.** D. Mukherjee, R. Das, S. Majumdar, **Saurav Ghosh**, S. Thepadee, A. Basu. “Energy Efficient Face Recognition in Mobile-Fog Environment”, in proc. of International Conference on Pervasive Computing Advances and Applications ( PerCAA 2019 ), Procedia Computer Science, Elsevier, vol. 152, 2019, Pages 274-281, Poornima University, Jaipur, January 8-10, 2019. doi: 10.1016/j.procs.2019.05.016. Available online on <https://www.sciencedirect.com>.

### ***Journal Publications:***

**1.** H.B. Kekre, S.Thepade, R.K.K Das, **Saurav Ghosh**. “Image Classification using Block Truncation Coding with Assorted Color Spaces”, *International Journal of Computer Applications (IJCA)*, pp. 9-14, Volume 44, No. 6, April 2012. Published by Foundation of Computer Science, New York, USA. ISSN: 0975-8887. ISBN: 973-93-80867-54-6. doi: 10.5120/6265-8418.

**2.** H.B. Kekre, S.Thepade, R.K.K Das, **Saurav Ghosh**. “Performance Boost of Block Truncation Coding based Image Classification using Bit Plane Slicing”. *International Journal of Computer Applications (IJCA)*, pp. 36-41, Volume 47, No. 15, June 2012. Published by Foundation of Computer Science, New York, USA. ISSN: 0975-8887 ISBN: 973-93-80868-98-1. doi: 10.5120/7268-0447.

**3.** **Saurav Ghosh**. “Performance Evaluation of Proactive, Reactive and Hybrid Routing Protocols considering Link SNR value ”, *International Journal of Computer Applications (IJCA)*, pp. 44-50, Volume 59, No. 19, December 2012. Published by Foundation of Computer Science, New York, USA. ISSN: 0975-8887. ISBN: 973-93-80871-09-1. doi: 10.5120/9804-4407.

**4.** S. Thepade, R.K Das, **Saurav Ghosh**. “A Novel Feature Extraction Technique Using Binarization of Bit Planes for Content Based Image Classification”. *Journal of Engineering*, vol. 2014, Article ID 439218, 13 pages, 2014. doi:10.1155/2014/439218, Hindawi Publishing Corporation (**ISI Web of Science Indexed**).

5. S. Thepade, R.K Das, **Saurav Ghosh**. “Feature Extraction with Ordered Mean Values for Content Based Image Classification”, *Journal of Advances in Computer Engineering*, vol. 2014, Article ID 454876, 15 pages, 2014, Hindawi Publishing Corporation. Emerging Sources Citation Index (ESCI), INSPEC Indexed, SCOPUS Indexed. doi:10.1155/2014/454876.
6. S. Thepade, R.K Das, **Saurav Ghosh**. “Content Based Image Classification with Thepade's Static and Dynamic Ternary Block Truncation Coding”, *International Journal of Engineering Research*, ISSN: 2319-6890 (online), 2347-5013 (print), vol. no.4, issue no.1, pp. 13-17, 2015. Innovative Research Publications , INSPEC Indexed.
7. S. Thepade, R.K Das, **Saurav Ghosh**. “Novel Technique in Block Truncation Coding Based Feature Extraction for Content Based Image Identification”. *Transactions on Computational Science*, (2015), Vol. XXV, 55-76, ISSN:1866-4741(online),1866-4733(print), Print ISBN: 978-3-662-47073-2 , Electronic ISBN: 978-3-662-47074-9, Springer Berlin Heidelberg, SCOPUS Indexed.
8. S. Thepade, R.K Das, **Saurav Ghosh**. “A Novel Feature Extraction Technique with Binarization of Significant Bit Information”, *International Journal of Imaging and Robotics*, (2015), vol. 15 (3), pp. 164-178, ISSN: 2231-525X, CESER Publications, SCOPUS indexed.
9. R.K Das, S. Thepade, **Saurav Ghosh**. “Content Based Image Recognition by Information Fusion with Multiview Features”, *International Journal of Information Technology and Computer Science*, (2015), vol. 10, pp. 61-73, MECS Publishers, doi: 10.5815/ijitcs.2015.10.08, INSPEC Indexed.
10. R.K Das, S. Thepade, **Saurav Ghosh**. “Novel Feature Extraction Technique for Content Based Image Recognition with Query Classification”, *International Journal of Computational Vision and Robotics*, Inderscience Publishers, vol. 7, issue 1-2, 2015. Print ISSN: 1752-9131, Online ISSN: 1752-914X. SCOPUS indexed. doi: 10.1504/IJCVR.2017.081240.
11. R.K Das, S. Thepade, **Saurav Ghosh**. “Multi Technique Amalgamation for Enhanced Information Identification with Content Based Image Data”. *SpringerPlus* (2015), 4: 479, doi : 10.1186/s40064-015-1515-4. Science Citation Indexed Expanded (SCI-E), SCOPUS. Impact Factor: 0.982 (Thomson Reuters JCR (2015)).
12. R.K Das, S. Thepade, **Saurav Ghosh**. “Framework for Content Based Image Identification with Standardized Multi View Features”. *ETRI Journal* (2016) vol. 38, no. 1, Feb. 2016, pp. 174-184. <http://dx.doi.org/10.4218/etrij.16.0115.0102>. Science Citation Indexed (SCI). Impact Factor: 0.809 (Thomson Reuters JCR (2016)).
13. R.K Das, S. Thepade, S. Bhattacharya, **Saurav Ghosh**, “Retrieval Architecture with Classified Query for Content Based Image Recognition,” *Journal of Applied Computational Intelligence and Soft Computing*, Hindawi Publishing Corporation, vol. 2016, Article ID 1861247, 9 pages, 2016. doi:10.1155/2016/1861247. Web of Science Indexed – Emerging Sources Citation Indexed (ESCI).
14. S. Thepade, R.K Das, **Saurav Ghosh**. “Block Truncation Coding with Color Clumps: A Novel Feature Extraction Technique for Content Based Image Classification”. *SADHANA: Academy Proceedings in Engineering Sciences*, Springer. September 2016, Volume 41, Issue 9, pp 939–958. doi:10.1007/s12046-016-0535-2. Science Citation Indexed Expanded (SCI-E), Scopus Indexed. Impact Factor: 0.349 (Thomson Reuters JCR (2016)).

**15.** S. Thepade, R.K Das, **Saurav Ghosh** "Decision Fusion Based Approach for Content Based Image Classification" Manuscript ID: IJICC-07-2016-0025, *International Journal of Intelligent Computing and Cybernetics*, Vol. 10 No. 3, pp. 310-331, 2017. ISSN: 1756-378X, SCOPUS Indexed. doi: 10.1108/IJICC-07-2016-0025.

**16.** R.Gupta, S. Chandra, **Saurav Ghosh**, S. Mondal. "An Intelligent and Power Efficient Biomedical Sensor Node for Wireless Cardiovascular Health Monitoring". IETE Journal of Research, 2019. Print ISSN: 0377-2063 Online ISSN: 0974-780X . Science Citation Index Expanded SCI-E, Impact Factor: 0.829 (Thomson Reuters). doi: 10.1080/03772063.2019.1611489.