Dr. C.Sathiyakumar
Associate Professor,
School of Computer Science and Engineering,
Vellore Institute of Technology, Vellore – 632014.
Mobile +919894650401

EMAIL: **csathiyakumar@yahoo.com**

8. List of Publications

International Journals

1. **Sathiyakumar, C** & Duraiswamy, K 2014, 'Packet Reserving and Clogging Control via Routing Aware Packet Reserving Framework in MANET', World Academy of Science, Engineering and Technology, International Journal of Computer, Information, Systems and Control Engineering, vol. 8, no. 10, pp. 1657-1663. **[SJR: 0.125] [In SCOPUS from 2009-2011]**

2. **Sathiyakumar, C** & Duraiswamy, K 2014, 'Efficient Node Cooperation and Security in MANET using Closeness Technique', International Journal of Engineering and Technology, vol. 6, no. 2, pp. 754-763. **[SJR: 0.139][In SCOPUS from 2009-2016]**

3. **Sathiyakumar, C** & Duraiswamy, K 2013, 'A Hybrid Approach for Node Co-Operation Based Clustering in Mobile Ad Hoc Networks', Journal of Computer Science, vol. 9, no. 2, pp. 147-154. **[SCOPUS INDEXED, SJR: 0.189]**

4. **Sathiyakumar, C** & Duraiswamy, K 2012, 'A Secured Key Model for Efficient Node Clustering Based on Reputation and Ranking Model', European Journal of Scientific Research, vol. 74, no. 3, pp. 433-439. **[SJR: 0.15, IF 0.7] [In SCOPUS from 2006-2012]**

5. **Sathiyakumar, C** & Sandhiya, V 2012, 'Analysis of Blind Secure Biometric Verification Protocol', CiiT International Journal of Digital Image Processing, April 2012, **DOI: DIP042012009,** Print: ISSN 0974 – 9691 & Online: ISSN 0974 – 9586.

6. Krishnaveni, K & **Sathiyakumar, C** 2013, **'**An energy Efficiency Parameter for Mobile Ad Hoc Network', International Journal of Advanced and Innovative Research, vol. 2, no. 2, ISSN 2278 – 7844. **[IF 0.349]**

7. **Sathiyakumar**, **C**, Boopathi, K, Elavarasi, R & Rajapathy, P 2014, 'Secure Digital Watermarking Techniques Based Authentication', CiiT International Journal of Digital Image Processing, vol. 6, no. 2.

8. **Sathiyakumar**, **C** & Nandhini, M 2015, 'Appraisal of Robust Face-Name Graph Matching for Different Movie Frames', International Journal of Modern Computer Science (IJMCS), vol. 3, no. 4, pp. 62-66.

9. **Sathiyakumar, C** & Nandhini, M 2016, 'Global Face-Name Matching For Various Movie Frames Using ECGM', International Journal of Advanced Research in Management, Architecture, Technology & Engineering(IJARMATE), vol 2, spl. no. 2, pp. 181-188.

10. **Dr. Sathiyakumar, C,** Saranya, M, Selvarani, K & Vignesh, P, 'Image Recognition Methodology in Video', International journal of advanced research and innovative ideas in education, vol. 2, no. 4, pp. 184-188, 2017.

11. **Dr. Sathiyakumar, C,** Vinothini, R, Subitha, M, Suganya, M, 'Processing of Images to Predict Age and Weather Impact on Wood', International journal of advanced research and innovative ideas in education, vol. 2, no. 4, pp. 130-135, 2017.

12. Dr. Priya, V, **Dr. Sathiya Kumar, C,** Dr. Ramani Kannan, 2019 'Resource Scheduling Algorithm with Load Balancing for Cloud Service Provisioning', Applied Soft Computing, Elsevier, vol. 76, pp. 416-424. **(SCOPUS and SCI indexed IF : 5.472)**

13. S. Sudhakar, V. Vijayakumar, **C. Sathiya Kumar,** V. Priya, Logesh Ravi, V. Subramaniyaswamy, 2020, 'Unmanned Aerial Vehicle (UAV) based Forest Fire Detection and monitoring for reducing false alarms in forest-fires', Computer Communications, Elsevier, vol. 149, pp. 1-16. **(SCOPUS and SCI indexed IF : 2.816)**

14. **Sathiya Kumar,** C, Priya, V, Sriram, V.P., Sankar Ganesh, K. , Mani, D, Sudhakar, S., 2020, An efficient algorithm for quantum computing with quantum key distribution with secure communication, Journal of Engineering Science and Technology, vol. 15, no. 1, pp. 77-93. (**SCOPUS**)

International Conferences

1. R.Nallusamy, R, Duraiswamy, K, Muthukumar, DA & **Sathiyakumar, C** 2010, 'Energy efficient dynamic shortest path routing in wireless Ad hoc sensor networks using genetic algorithm', Proceeding of the IEEE International Conference on Wireless Communications and Sensor Computing (ICWCSC 2010), Chennai, India, pp. 1-5.

2. **C.Sathiyakumar**, C.Rajan, K.Geetha 'Survey of Routing Protocols for Mobile Ad Hoc Networks', in Proceedings of International Conference on innovative Computing Technologies (MKCE-ICICT) at M.Kumaraswamy College of Engineering, Karur, Tamil Nadu, India, 2010.

3. **C.Sathiyakumar**, V.Sandhiya, 'Analysis of Blind Secure Biometric Verification Protocol', in Proceedings of Engineering post Graduate research Conference (ENGGPOS - 2011) at Karpagam University, Coimbatore, Tamil Nadu, India, 15th Nov 2011.

4. **C.Sathiyakumar**, V.Sandhiya, 'CRYPTO – Biometric Protocol using Generic Classifier', in Proceedings of First International Conference on Computational Intellligence and its Application - (ICCIA - 2012) at Vivekanandha Institute of Engineering and Technology for Women, Tiruchengode, Tamil Nadu, India, 1 to 3rd Mar 2012.

5. **C.Sathiyakumar,** V.Sandhiya, 'Blind Secure Biometric Verification Protocol', in Proceedings of International Conference on Advances in Communications and

Computing (ICACC - 2012) at Tejaa Shakthi Institute of Technology for Women in Collaboration with Asian Institute of Technology, Banghok, Thailand, 9 and 10th Jan 2012.

6. **C.Sathiyakumar,** K.Om Prakash, 'Data Security on MANET using ECDSA', in Proceedings of International conference on 4G wireless Computer Networks(IC4GWCN), at Kamban Engineering College, Thiruvannamalai, Tamil Nadu, India, on 4 and 5th March 2011, pp 24.

7. **C.Sathiyakumar,** Boopathi, Elavarasi and Rajapathy, 'Secure Digital Watermarking Techniques Based Authentication', in Proceedings of International Research Conference on 'Innovative Research Skills', Aishwarya College of Engineering and Technology, Bhavani, Tamil Nadu, India, on 12th February 2014.

8. M.Nandhini, **C.Sathyakumar**, 'A Narrative Method for Movie Character Identification Based on Global Face Name Matching: A Survey', in Proceedings of the International Conference on Electrical, Electronics and Computer Engineering (ICEEECE-15), Vivekanandha College of Engineering for Women, Tiruchengode, Tamil Nadu, India, pp. 523-526, 2015.

9. M.Nandhini, **C.Sathyakumar**, 'Appraisal Of Robust Face-Name Graph Matching For Different Movie Frames', in Proceedings of the International Conference on Modelling, Simulation and Control (ICMSC - 2015), Karpagam College of Engineering, Coimbatore,Tamil Nadu, India, 15 to 16th Oct 2015, pp. 363-369, 2015.

10. **Sathiyakumar, C** & Nandhini, M 2016, 'Global Face-Name Matching For Various Movie Frames Using ECGM', Proceedings of the 2nd International Conference On Emerging Enhancements in Engineering and Technology(ICEEET'16), Indra Ganesan College of Engineering, Tiruchirappalli, Tamil Nadu, India, 18 to 19th Mar, 2016, pp. 1-8.

11. Shivang Raj, Saksham, Nikhil Patwari, **Sathiya Kumar C**, 2019, 'IoT based automated agriculture system in India', Proceedings of the 3rd International Conference on Trends in Electronics and Informatics (ICOEI 2019), SCAD College of Engineering and Technology, Tirunelveli, Tamil Nadu, India, 23 to 25th Apr, 2019.

National Conference

1. **C.Sathiyakumar**, 'Analysis of Applicative Indirect Routing Scheme for Mobile Ad Hoc Wireless Networks', in Proceedings of National Conference on Innovations in Computing Techniques at Mahendra College of Engineering.

2. **C.Sathiyakumar**, 'Analysis of Secure Data Transmission and Routing in a Mobile Ad hoc Networks', in Proceedings of National Conference on Software Engineering and Applications at Government College of Engineering Salem.

3. N.Nirmala, **C.Sathiyakumar**, 'Location Based Routing on Irregular Topologies with Mobile nodes', in Proceedings of National Conference on Emerging Trends in Advanced Computing, Sasurie College of Engineering, Feb 2008.

4. T.S.Sindhupriya, **C.Sathiyakumar**, 'Bayesian Competitive Consistent Labelling for People Surveillance', in Proceedings of National Conference on Recent Trends in Advanced Computing(NCRTAC '09) at SNS College of Technology, Coimbatore, 6th Oct 2008

5. **C.Sathiyakumar**, K.Geetha, 'Routing Protocols in Mobile Ad Hoc Networks', in Proceedings of National Conference on Recent Trends in Advanced Computing(NCRTAC '09) at SNS College of Technology, Coimbatore, pp. 6th Oct 2009

6. **C.Sathiyakumar**, Sandhiya, 'Analysis of Blind Secure Biometric Verification Protocol', in Proceedings of National Conference on Recent Trends in Application & Technology at Jaya Engineering College, Chennai, 30th sep 2011.

7. **C.Sathiyakumar**, K.Dhivya, S.Gokila and S.Mohan, 'Data Security Using Visual Cryptography', in Proceedings of National Conference on Innovation on Information Technology (NCIIT 2013) at Bannari Amman Institute of Technology, Coimbatore, 21 and 22 Feb 2013, pp. 58. **(DRDO)**.

8. **C.Sathiyakumar**, P.Gomathi, 'Broadcasting Problem in a Mobile Networks', in Proceedings of National Conference on Advancement in Electrical Power, Signal processing and Communication Network Systems(ESCON 2013) on 15 and 16th Mar 2013.

9. **C. Sathyakumar,** R.Sangeetha, A. Sundharameenatchi & B. Vinothkumar, 'Automation of Key Generation", in the Proceedings National Conference on Emerging Trends in Science, Engineering and Technology at Nehru Institute of Engineering & Technology, Coimbatore, Tamil Nadu, India on 04th Mar 2016.

10. **Dr. Sathiyakumar, C,** Saranya, M, Selvarani, K & Vignesh, P, 'Image Recognition Methodology in Video', in the Proceedings National Conference on Technological Advancements in Engineering at Sree Narayanaguru College of Engineering and Technology, Kerala,India on 25th Mar 2017.

11. **Dr. Sathiyakumar, C,** Vinothini, R, Subitha, M, Suganya, M, 'Processing of Images to Predict Age and Weather Impact on Wood', in the Proceedings National Conference on Technological Advancements in Engineering at Sree Narayanaguru College of Engineering and Technology, Kerala,India on 25th Mar 2017.