

Dr. SALAJA. S, M.E., Ph.D.

Department of Computer Science and Engineering

Karunya Nagar,

Coimbatore -641114, India

Phone: +91 9444117657

Email: salaja_cse@karunya.edu

blessingsalaja@gmail.com

ORCID ID: orcid.org/0000-0001-9851-6205

Scopus ID: 46161690400

Web of Science ID: AAM-8122-2020



Last 5 Year Publications

Journals

1. Renu Mary Daniel, Elijah Blessing Rajsingh, Salaja Silas, “ **An efficient eCK secure identity based Two Party Authenticated Key Agreement scheme with security against active adversaries**”, (2020) Information and Computation, art. no. 104630, DOI: 10.1016/j.ic.2020.104630. (Elsevier Publisher)
2. Titus Issac, Salaja Silas, Elijah Blessing Rajsingh, “**Investigative prototyping a tissue P system for solving distributed task assignment problem in heterogeneous wireless sensor network**”, (2020) Journal of King Saud University - Computer and Information Sciences, DOI: 10.1016/j.jksuci.2020.06.008
3. Titus Issac, Salaja Silas, Elijah Blessing Rajsingh, “**Prototyping a Scalable P-system-Inspired Dynamic Task Assignment Algorithm for a Centralized Heterogeneous Wireless Sensor Network**”, (2020) Arabian Journal for Science and Engineering, Springer. DOI: 10.1007/s13369-020-04700-6 (Springer Publisher)
4. Deva Priya I., Vidya Priya Darcini, S., Salaja Silas, “**Improved heart disease diagnostic iot model using machine learning techniques**”, (2020) International Journal of Scientific and Technology Research, 9 (2), pp. 4442-4446.
5. Renu Mary Daniel, Elijah Blessing Rajsingh, Salaja Silas, “**An efficient eCK secure certificateless authenticated key agreement scheme with security against public key replacement attacks**”, (2019) Journal of Information Security and Applications, 47, pp. 156-172. DOI: 10.1016/j.jisa.2019.05.003. (Elsevier Publisher)

6. Salaja Silas, Elijah Blessing Rajsingh, "A Novel Patient Friendly IT Enabled Framework for Selection of Desired Health Care Provider", International Journal of Medical Engineering and Informatics, Volume 11, Issue 1, 2019, Pages 14-40. (Inderscience Publisher)
7. Renu Mary Daniel, Elijah Blessing Rajsingh, Salaja Silas, "A forward secure signcryption scheme with ciphertext authentication for e-payment systems using conic curve cryptography", Journal of King Saud University - Computer and Information Sciences, 2018, ISSN 1319-1578, <https://doi.org/10.1016/j.jksuci.2018.02.004>.
8. Renu Mary Daniel, Elijah Blessing Rajsingh, Salaja Silas, "Analysis of hierarchical identity based encryption schemes and its applicability to computing environments", Journal of Information Security and Applications, Volume 36, October 2017, Pages 20-31, ISSN 2214-2126. (Elsevier Publisher)
9. Renu Mary Daniel, Elijah Blessing Rajsingh, Salaja Silas, "Deriving Practical Applicability of Hierarchical Identity Based Encryption in Massively Multiplayer Online Role Playing Games", Procedia Computer Science, Elsevier, Vol 93, pp. 839-846, 2016. (Elsevier Publisher)
10. Salaja Silas, Elijah Blessing Rajsingh, "Performance Analysis on algorithms for selection of desired healthcare Services", Perspectives in Science, Elsevier, vol. 8, pp.107-109, September 2016. (Elsevier Publisher)
11. Immanuel John Raja Jebadurai, Elijah Blessing Rajsingh, Getzi Jeba Leelipushpam, Salaja Silas "EDIS: An effective method for detection and isolation of sinkhole attacks in mobile ad hoc networks", International Journal of Wireless and Mobile Computing, , Vol 11(3), pp.171-181, 2016. (Inderscience Publisher)
12. Titus Issac, Salaja Silas, Elijah Blessing Rajsingh, "Investigations on task and role assignment protocols in wireless sensor network", Journal of Theoretical and Applied Information Technology, vol.89 issue 1, pp.210-219, 2016.

Book Chapters

1. Renu Mary Daniel, Elijah Blessing Rajsingh, Salaja Silas, Sharmila Anand John Francis, "An Efficient Provably Secure Identity-Based Authenticated Key Agreement Scheme for Intervehicular Ad Hoc Networks", *The Cognitive Approach in Cloud Computing and Internet of Things Technologies for Surveillance*

Tracking Systems, Intelligent Data-Centric Systems, pp.17-36, 2020. (Elsevier Publisher)

2. Titus Issac, Salaja Silas, Elijah Blessing Rajsingh, “**Dynamic and static system modeling with simulation of an eco-friendly smart lighting system**”, *Systems Simulation and Modeling for Cloud Computing and Big Data Applications, Advances in ubiquitous sensing applications for healthcare*, pp 81-97, 2020. (Elsevier Publisher)
3. Titus Issac, Salaja Silas, Elijah Blessing Rajsingh, Sharmila Anand John Francis, “**Dynamic Self-Aware Task Assignment Algorithm for an Internet of Things-Based Wireless Surveillance System**”, *The Cognitive Approach in Cloud Computing and Internet of Things Technologies for Surveillance Tracking Systems, Intelligent Data-Centric Systems*, pp. 37-50, 2020. (Elsevier Publisher)
4. Deva Priya Isravel, Salaja Silas, Elijah Blessing Rajsingh, “**Reliable Surveillance Tracking System based on Software Defined Internet of Things**”, *The Cognitive Approach in Cloud Computing and Internet of Things Technologies for Surveillance Tracking Systems, Intelligent Data-Centric Systems*, pp. 1-16, 2020. (Elsevier Publisher)
5. Issac, Titus, Salaja Silas, and Elijah Blessing Rajsingh. "Modelling a Deep Learning-Based Wireless Sensor Network Task Assignment Algorithm: An Investigative Approach." *Deep Learning Strategies for Security Enhancement in Wireless Sensor Networks*. IGI Global, 2020. 84-109.
6. Renu Mary Daniel, Elijah Blessing Rajsingh, Salaja Silas, " **An Efficient Forward Secure Authenticated Encryption Scheme with Ciphertext authentication based on Two Hard Problems**", *Advances in Intelligent Systems and Computing*, Vol. 645, pp. 123-133, 2018. (Springer Verlag Publisher)

Conferences

1. Joyce Beryl Princess P., Salaja Silas, Elijah Blessing Rajsingh, “ **Classification of Road Accidents Using SVM and KNN**”, (2021) *Advances in Intelligent Systems and Computing*, 1133, pp. 27-41. DOI: 10.1007/978-981-15-3514-7_3. (Springer)
2. Deva Priya, I., Salaja Silas, Elijah Blessing Rajsingh, “ **Sdn-based traffic management for personalized ambient assisted living healthcare system**”, (2021) *Advances in Intelligent Systems and Computing*, 1167, pp. 379-388. DOI: 10.1007/978-981-15-5285-4_38. (Springer)

3. Titus Issac, Salaja Silas, Elijah Blessing Rajsingh, "**System modeling and simulation of an outdoor illumination system using a multi-layer feed-forward neural network**", (2021) Advances in Intelligent Systems and Computing, 1167, pp. 495-507. DOI:(Springer)
4. Joyce Beryl Princess P., Salaja Silas, Elijah Blessing Rajsingh, "**Performance comparison of machine learning models for classification of traffic injury severity from imbalanced accident dataset**", (2021) Advances in Intelligent Systems and Computing, 1167, pp. 361-369. DOI: 10.1007/978-981-15-5285-4_36. (Springer)
5. Joyce Beryl Princess P., Salaja Silas, Elijah Blessing Rajsingh, "**Machine learning approach for identification of accident severity from accident images using hybrid features**", (2020) 2020 International Conference for Emerging Technology, art. no. 9154079, DOI: 10.1109/INCET49848.2020.9154079
6. Vidya Priya Darcini, S., Deva Priya I., Salaja Silas, "**A Comprehensive Review on the Emerging IoT-Cloud based Technologies for Smart Healthcare**", 2020 6th International Conference on Advanced Computing and Communication Systems, ICACCS 2020, art. no. 9074457, pp. 606-611. DOI: 10.1109/ICACCS48705.2020.9074457
7. Joyce Beryl Princess, P., Salaja Silas, Elijah Blessing Rajsingh, "**Performance Analysis of Feature Detection and Description (FDD) Methods on Accident Images**", (2020) Communications in Computer and Information Science, 1240 CCIS, pp. 384-396. DOI: 10.1007/978-981-15-6315-7_32. (Springer)
8. Joyce Beryl Princess, P., Salaja Silas, Elijah Blessing Rajsingh, "**Performance Analysis of Edge Detection Algorithms for Object Detection in Accident Images**", (2019) 2019 Global Conference for Advancement in Technology, DOI: 10.1109/GCAT47503.2019.8978438
9. Titus Issac, Salaja Silas, Elijah Blessing Rajsingh, "**Investigations on PSO based task assignment algorithms for heterogeneous wireless sensor network**", (2019) 2nd International Conference on Signal Processing and Communication, ICSPC 2019 - Proceedings, art. no. 8976850, pp. 89-93. DOI: 10.1109/ICSPC46172.2019.8976850
10. Prabakaran, P., Isravel, D.P., Salaja Silas, "**A Review of SDN-Based Next Generation Smart Networks**", (2019) 2019 Proceedings of the 3rd International

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11. Deva Priya, I., Salaja Silas, **"Preferential Multi-Attribute Rank based Forwarding Node Selection in Software Defined Networks"**, (2019) 2019 Proceedings of the 3rd International Conference on Computing and Communications Technologies, ICCCT 2019, art. no. 8824798, pp. 73-79. DOI: 10.1109/ICCCT2.2019.8824798
12. Titus Issac, Salaja Silas, Elijah Blessing Rajsingh, **"Luminaire-aware dynamic illumination role assignment scheme for a safe and green smart city"**, (2019) 2019 Proceedings of the 3rd International Conference on Computing and Communications Technologies, ICCCT 2019, art. no. 8824914, pp. 94-98. DOI: 10.1109/ICCCT2.2019.8824914
13. Deva Priya, I., Salaja Silas, **"A Survey on Research Challenges and Applications in Empowering the SDN-Based Internet of Things"**, (2019) Advances in Intelligent Systems and Computing, 750, pp. 457-467. DOI: 10.1007/978-981-13-1882-5_39. (Springer)
14. Titus Issac, Salaja Silas, Elijah Blessing Rajsingh, **"Investigations on System Modeling Simulations for Solving Heterogeneous WSN Task Assignment Problem using Multilayer Feed Forward Neural Networks"**, (2019) Materials Today: Proceedings, 24, pp. 2439-2448. DOI: 10.1016/j.matpr.2020.03.774 (Elsevier)
15. Titus Issac, Salaja Silas, Elijah Blessing Rajsingh, **"Luminaire Aware Centralized Outdoor Illumination Role Assignment Scheme: A Smart City Perspective"**, (2019) Advances in Intelligent Systems and Computing, 750, pp. 443-456. DOI: 10.1007/978-981-13-1882-5_38 (Springer)
16. Elavarasi, R., Salaja Silas, **"Survey on job scheduling in fog computing"**, Proceedings of the International Conference on Trends in Electronics and Informatics, ICOEI 2019, 2019-April, pp. 580-583.
17. Kavitha, T., Salaja Silas, **"A survey on energy harvesting routing protocol for WSN"**, Proceedings of the International Conference on Trends in Electronics and Informatics, ICOEI 2019, art. no. 8862780, pp. 572-575, DOI: 10.1109/ICOEI.2019.8862780
18. Thompson K. Thomas, Salaja Silas, **"An Analysis on Selection of Cloud Vendors Based on Subjective and Objective Parameters"**, Proceedings of the 2nd International Conference on Inventive Systems and Control, 19-20 January 2018, Coimbatore, IEEE, ISBN: 978-1-5386-0807-4.

19. Salaja Silas, Elijah Blessing Rajsingh, Titus Issac, "**WASF - Weighted Average based Subjective Feedback System for E-Healthcare Services**", 2nd International Conference on Next Generation Computing Technologies", 14th – 16th October 2016.
20. Girish Neelakanta Iyer, Salaja Silas, Ganesh Neelakanta Iyer " **An optimized cloud based big data processing mechanism using selforganizing map in hadoop environments** " International conference on Green Computing and Internet of Things, October 2015, Delhi, India, IEEE ISBN: 978-1-4673-7909-0.
21. Girish Neelakanta Iyer, Salaja Silas, "**A Comprehensive Survey on Data-Intensive Computing and MapReduce Paradigm in Cloud Computing environments**", Proceedings of Informatics and Communication Technologies for Societal Development, 2015, pp 85-93.
22. Titus.I, Elijah Blessing Rajsingh, Salaja Silas,"**E-Health Navigator: A tool for selection of desired health care services**", Advances in Computer Science and Information Technology, Proceedings of International Academic Conference on Theoretical and Applied Aspects of Computational Science, E-Learning, Information and Communication Engineering", Vol.2, Issue.10, October - December 2015, pp. 54-58, ISSN: 2393 9907.