



Publication Details: Faculty Members

Academic Year: 2022-23

Department of CSE

(Artificial Intelligence and Machine Learning)

GOKARAJU RANGARAJU
INSTITUTE OF ENGINEERING AND TECHNOLOGY
(Autonomous)



**Gokaraju Rangaraju Institute of Engineering and Technology
(Autonomous)**

Department of CSE (Artificial Intelligence and Machine Learning)

Publication Details: Faculty Members

Academic Year: 2022-23

Academic Year	No. of Journal Publications (JP)			No. of Conference Proceedings (CP)		Total Year-Wise (JP & CP)	Patents
	SCI	SCOPUS	UGC	SCOPUS	UGC		
2022-2023 (July 22 to June 23)	2	5 & BC=2	1	25	-	35	-
Total (JP, CP, Patents)						35	-

*BC=Book Chapter

HoD – AIML



Gokaraju Rangaraju Institute of Engineering and Technology (Autonomous)

Department of CSE (Artificial Intelligence and Machine Learning)

Publication Details

Academic Year: 2022-23

SCI Publications

- [1] **E. Poornima**, “Fog Robotics-based Intelligence Transportation System using Line-of-sight Intelligent Transportation”, Multimedia Tools and Applications, vol. 1231, **March, 2023**, DOI: <https://doi.org/10.1007/s11042-023-15086-6>
- [2] **E. Poornima**, FTOR-Mod PSO: A Fault Tolerance and an Optimal Relay Node Selection Algorithm for Wireless Sensor Networks using Modified PSO, Knowledge-Based Systems, vol. 272, no. 110583, **April, 2023**, DOI: <https://doi.org/10.1016/j.knosys.2023.110583>.

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- [1] **E. Poornima**, Srinivasulu Sirisala, P. Dileeo Kumar Reddy, G. Ramesh, “A Generic Framework for Sharing Data Using Attribute based Cryptography in Hybrid Cloud”, International Journal of Intelligent Systems and Applications in Engineering (IJISAE), vol. 10, pp. 634-640, **December 2022**, ISSN: 2147-6799.
- [2] **G. Karuna**, “A Comparative Analysis of Machine Learning Algorithms for Prediction of Breast Cancer”, International Journal for Innovative Engineering and Management Research Elsevier SSRN, vol. 12, no. 1, pp. 185-191, **January 2023**.
- [3] **G. Karuna**, An Effective Feature Extraction Technique for COVID-19 Detection, International Journal for Innovative Engineering and Management Research Elsevier SSRN, vol. 12, no. 1, pp. 412-424, **January 2023**.
- [4] **G. Karuna**, “A Full-resolution Convolutional Network with a Dynamic Graph Cut Algorithm for Skin Cancer Classification and Detection,” Healthcare Analytics, vol. 3, no. 100154, **March, 2023**, ISSN 2772-4425.
- [5] Kireet Muppavaram, Aparna Shivampeta, Sudeepthi Govathoti, Deepthi Kamidi, **Kiran kumar Mamidi**, Manyam Thaile, “Investigation of Omnidirectional Vision and Privacy Protection in Omnidirectional Cameras,” SSRG International Journal of Electronics and

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- [1] **R. P. Ram Kumar**, Tarum Sri Sai Vadlapatla, Siddarda Azmeera, Adityaram Komaraneni, Abhishek Jula, “Performance Comparison of Depth Limited Search and A* Algorithm: A Case Study”, In proceedings of 4th International Conference on Design and Manufacturing Aspects for Sustainable Energy (ICMED-ICMPC 2023), E3S Web of Conferences, vol. 391, no. 01140, pp. 1-11, **June 2023**, DOI: <https://doi.org/10.1051/e3sconf/202339101140>
- [2] **R. P. Ram Kumar**, M. Sri Lakshmi, B. S. Ashwak, K. Rajeshwari, S. Md. Zaid, “Thyroid Disease Classification using Machine Learning Algorithms”, In proceedings of 4th International Conference on Design and Manufacturing Aspects for Sustainable Energy (ICMED-ICMPC 2023), E3S Web of Conferences, vol. 391, no. 01141, pp. 1-7, **June 2023**, DOI: <https://doi.org/10.1051/e3sconf/202339101141>
- [3] **M. Sreerama Murthy**, R. P. Ram Kumar, Billa Saikiran, Islavath Nagaraj, Tejesh Annavarapu, “Real Time Weather Monitoring System using IoT”, In proceedings of 4th International Conference on Design and Manufacturing Aspects for Sustainable Energy (ICMED-ICMPC 2023), E3S Web of Conferences, vol. 391, no. 01142, pp. 1-9, **June 2023**, DOI: <https://doi.org/10.1051/e3sconf/202339101142>
- [4] **A. Madhavi**, Dhruv Uniyal, Abhishek Jula, Tarun Sri Sai Vadlapatla, John Nikhil Bonam, “Smart Parking Assistant: Integrating Ultrasonic Sensors and IoT for Enhanced Driver Experience”, In proceedings of 4th International Conference on Design and Manufacturing Aspects for Sustainable Energy (ICMED-ICMPC 2023), E3S Web of Conferences, vol. 391, no. 01143, pp. 1-8, **June 2023**, DOI: <https://doi.org/10.1051/e3sconf/202339101143>
- [5] **P. Deepthi**, Siddarda Azmeera, Goggi Ruthvik Tarang, Adityaram Komaraneni Kashyap Koutilya, “Safe Driving Enabled Using IoT”, In proceedings of 4th International Conference on Design and Manufacturing Aspects for Sustainable Energy (ICMED-ICMPC 2023), E3S Web of Conferences, vol. 391, no. 01144, pp. 1-8, **June 2023**, DOI: <https://doi.org/10.1051/e3sconf/202339101144>
- [6] **G. Karuna**, R. P. Ram Kumar, Vadlapatla Tarun Sri Sai, Jula Abhishek, Mood Shashikanth, Burra Kashyap, “Motorcycle Crash Detection and Alert System using IoT”, In proceedings of 4th International Conference on Design and Manufacturing Aspects for Sustainable Energy (ICMED-ICMPC 2023) E3S Web of Conferences, vol. 391, no. 01145, pp. 1-10, **June 2023**, DOI: <https://doi.org/10.1051/e3sconf/202339101145>
- [7] **G. Karuna**, R. P. Ram Kumar, Steven Gopaldas, Vasista Parvathaneni, Teddu Lokesh, “Air Quality and Hazardous Gas Detection using IoT for Household and Industrial Areas”, In proceedings of 4th International Conference on Design and Manufacturing Aspects for Sustainable Energy (ICMED-ICMPC 2023) E3S Web of Conferences, vol. 391, no. 01146, pp. 1-9, **June 2023**, DOI: <https://doi.org/10.1051/e3sconf/202339101146>

- [8] **Polepaka Sanjeeva**, R. P. Ram Kumar, Komaraneni Adityaram, Adipudi Kashyap, Azmeera Siddarda, Goggi Ruthvik, “Soil Moisture Predictive Analysis using IoT and Machine Learning”, In proceedings of 4th International Conference on Design and Manufacturing Aspects for Sustainable Energy (ICMED-ICMPC 2023)E3S Web of Conferences, vol. 391, no. 01147, pp. 1-13, **June 2023**, DOI: <https://doi.org/10.1051/e3sconf/202339101147>
- [9] **Dr. G. Karuna**, Sohan Daliyet,D. Vijay Vardhan Reddy, “IoT-based Sun and Rain Detection System”, In proceedings of 4th International Conference on Design and Manufacturing Aspects for Sustainable Energy (ICMED-ICMPC 2023), E3S Web of Conferences, vol. 391, no. 01150, pp. 1-7, **June 2023**, DOI: <https://doi.org/10.1051/e3sconf/202339101150>
- [10] **E. Poornima**, R. P. Ram Kumar, Srujan Katukam, Vikas Varma Pericherla, Sukain Kumar Birelli, “A Real-Time IoT-based Model to Detect and Alert Security Guards Drowsiness”, In proceedings of 4th International Conference on Design and Manufacturing Aspects for Sustainable Energy (ICMED-ICMPC 2023),E3S Web of Conferences, vol. 391, no. 01151, pp. 1-5, **June 2023**, DOI: <https://doi.org/10.1051/e3sconf/202339101151>
- [11] **Sanjeeva Polepaka**, R. P. Ram Kumar, P. Likhith Kumar, Karthik Vajja, “Secure Home Calling Bell”, In proceedings of 4th International Conference on Design and Manufacturing Aspects for Sustainable Energy (ICMED-ICMPC 2023), E3S Web of Conferences, vol. 391, no. 01154, pp. 1-9, **June 2023**, DOI: <https://doi.org/10.1051/e3sconf/202339101154>
- [12] **K. Arun**, R. P. Ram Kumar, Abhiram Kappaganthu, Pruthvi Samindla, “Forest Fire Detection with GPS using IoT”, In proceedings of 4th International Conference on Design and Manufacturing Aspects for Sustainable Energy (ICMED-ICMPC 2023), E3S Web of Conferences, vol. 391, no. 01155, pp. 1-7, **June 2023**, DOI: <https://doi.org/10.1051/e3sconf/202339101155>
- [13] **M. Shamila**, Manasa Kumari, and Srigana Puikantham, “Identification of Soil Features Suitable for Barley, Maize And Sugarcane Cultivation using Precision Agriculture”, In proceedings of 4th International Conference on Design and Manufacturing Aspects for Sustainable Energy (ICMED-ICMPC 2023), E3S Web of Conferences, vol. 391, no. 01158, pp. 1-9, **June 2023**, DOI: <https://doi.org/10.1051/e3sconf/202339101158>
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- [15] **R. P. Ram Kumar**, Polepaka Sanjeeva, Deepshika Reddy, Amitha Reddy, “Smart Monitoring System For Physically Handicapped Infants Using IoT”, In proceedings of 4th International Conference on Design and Manufacturing Aspects for Sustainable Energy (ICMED-ICMPC 2023), E3S Web of Conferences, vol. 391, no. 01161, pp. 1-8, **June 2023**, DOI: <https://doi.org/10.1051/e3sconf/202339101161>
- [16] **Sanjeeva Polepaka**, R. P. Ram Kumar, Dukkipati Likithasree, Sabbineni Keerthika, “An Insight on IoT Architecture and its Application”, 2023 International Conference on

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- [17] **R. P. Ram Kumar**, Sanjeeva Polepaka, Dukkupati Likithasree, Sabbineni Keerthika, “An Investigation on CNN-based Lung Cancer Prediction Method”, 2023 International Conference on Computer Communication and Informatics (ICCCI), **January, 23-25, 2023**, Coimbatore, India, DOI: <https://doi.org/10.1109/ICCCI56745.2023.10128379>
- [18] Srujan Katukam, Sai Vinay Potluri, Sunell Dutt Abburi, Rahul Cherukuri, C Sreeka Parinishta, Mohith Peddineni, **R. P. Ram Kumar**, Sanjeeva Polepaka, “Anti-Accident Mechanism to Detect Driver Drowsiness Integrated with Alerting Mechanism: An IoT-based Model”, 2023 International Conference on Computer Communication and Informatics (ICCCI), **January, 23-25, 2023**, Coimbatore, India, DOI: <https://doi.org/10.1109/ICCCI56745.2023.10128526>
- [19] **Sanjeeva Polepaka**, R. P. Ram Kumar, SrujanKatukam, Sai Vinay Potluri, Sunell Dutt Abburi, Mohith Peddineni, Nagaraj Islavath, Muralidhar Reddy Anumandla, “Heart Disease Prediction-based on Conventional KNN and Tuned-Hyper Parameters of KNN: An Insight”, 2023 International Conference on Computer Communication and Informatics (ICCCI), **January, 23-25, 2023**, Coimbatore, India, DOI: <https://doi.org/10.1109/ICCCI56745.2023.10128508>
- [20] **Sanjeeva Polepaka**, R. P. Ram Kumar, Kanchi Mishra, IsmathTabassum, Amal K, “Alive Human Detection in War Fields and Earthquakes using PIR Sensor and Monitoring the Heartbeat of the Victims”, 2023 International Conference on Computer Communication and Informatics (ICCCI), **January, 23-25, 2023**, Coimbatore, India, DOI: <https://doi.org/10.1109/ICCCI56745.2023.10128215>
- [21] **R. P. Ram Kumar**, Sanjeeva Polepaka, Syed Khasim Numaan, Manasa Kumari, Srigana Pulikantham, Mohith Peddineni, “Determining the Optimal Parameters for Wheat and Paddy Crops using Smart Farming: An Investigation” 2023 International Conference on Computer Communication and Informatics (ICCCI), **January, 23-25, 2023**, Coimbatore, India, DOI: <https://doi.org/10.1109/ICCCI56745.2023.10128276>
- [22] S. V. Chaudhari, **Sanjeeva Polepaka**, M. S. Ashraf, R. Swain, and R. K. Bora, “Bayesian Optimization with Deep Learning based Crop Type Classification on UAV Imagery,” 2022 International Conference on Augmented Intelligence and Sustainable Systems (ICAISS), Trichy, India, pp. 296-302, **January 2023**, DOI: <https://doi.org/10.1109/ICAISS 55157.2022.10010961>.
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- [24] **Sanjeeva Polepaka**, B. Gayathri, S. Ayoub, H. Sharma, Y. S. Moudgil and S. Kannan, “Privacy Preserving Encryption with Optimal Key Generation Technique on Deduplication for Cloud Computing Environment,” 2022 International Conference on Automation, Computing and Renewable Systems (ICACRS), Pudukkottai, India, pp. 464-470, **February 2023**, DOI: 10.1109/ICACRS55517.2022.10029045

- [25] T. K. Devi, Ritu, **Sanjeeva Polepaka**, R. Rastogi, S. R. Wategaonkar and A. Achuthan, “An Advanced Analyzation of Ultrasonic Sound Detection and Ranging Method using Arduino,” 2023 5th International Conference on Smart Systems and Inventive Technology (ICSSIT), Tirunelveli, India, pp. 489-494, **March 2023**, DOI: 10.1109/ICSSIT55814.2023.10060882.

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- [1] G. Kalapana, Dr. A. Kanaka Durga, T. Anoop Reddy, **Dr. G. Karuna**, “Predicting the Price of Pre-owned Cars using Machine Learning and Data Science”, International Journal for Research in Applied Science and Engineering Technology (IJRASET), vol. 10, no. 7, pp. 1468-1476, **July 2022**, DOI: <https://doi.org/10.22214/ijraset.2022.45469>

Book Chapter

- [1] **G. Karuna**, “Bird Species Recognition Using Deep Transfer Learning”, In: Reddy, K.A., Devi, B.R., George, B., Raju, K.S., Sellathurai, M. (eds) Proceedings of Fourth International Conference on Computer and Communication Technologies. Lecture Notes in Networks and Systems, vol. 606, pp. 473-479, **March, 2023**, Springer, Singapore, DOI: https://doi.org/10.1007/978-981-19-8563-8_46
- [2] **M. Shamila**, K. Vinuthna, Amit Kumar Tyagi, “Genomic Privacy: Performance Analysis, Open Issues, and Future Research Directions, pp. 249-263, 2023, ISBN: 9780323983525, DOI: <https://doi.org/10.1016/B978-0-323-98352-5.00015-X>