

R SINDHU RAJENDRAN

Assistant Professor

Educational Qualification	B.E (Telecommunication Engineering), M.Tech.(Digital electronics and communication Engineering)
Experience	Teaching: 8.5 Years Industry : Nil
Area of Interest	Signal Processing, Image Processing
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Date of Joining at RVCE : 9nd December 2016

Subjects Handled : Elements of electronics engineering, Analysis and design of digital circuits, Intellectual Property rights and entrepreneurship, Engineering Materials, Embedded system design

No. of Projects guided to UG Students : 12

Publication Details

International Journals:

1. Rajendran, Sindhu, et al. "Technological advancements in occupational health and safety." *Measurement: Sensors* 15 (2021): 100045.
2. Sindhu, Rajendran, et al. "Waste Segregation Using Artificial Intelligence." *International Journal of Scientific & Technology Research* 8.12 (2019): 903-905.
3. Rajendran, Sindhu, Surabhi Chaudhari, and Varsha Kulkarni. "Security and Privacy for Internet of Things (IoT): Issues and Solutions." (2020).
4. Sahana, Sindhu Rajendran, Vibha Narayan R., Rahul Pinny. **"A Study to Investigate the security issues in IMD."** *International Journal of Advance Research, Ideas and Innovations in Technology* 7.3 (2021). www.IJARIIIT.com.
5. Mukkamala, Padma Priya, and Sindhu Rajendran. "A survey on the different firewall technologies." *International Journal of Engineering Applied Sciences and Technology* 5.1 (2020): 363-365.
6. Chaudhari, Surabhi, et al. "Sensors to monitor the muscular activity—a survey." *Int J Sci Res Eng Manage (IJSREM)* 4.3 (2020): 1-11.
7. Singh, V., and Sindhu Rajendran. "Parametric Analysis of Automotive Grade Buck Converters." *J. Univ. Shanghai Sci. Technol* 23 (2021): 395-401.
8. Praveen, Anirudh, Saurav Kumar, and Sindhu Rajendran. "Automated Testing of Session Border Controller in Simulated Production Environment."
9. Sai Supreeth, Y. K., and R. Sindhu Rajendran. "Automated Switching Crash Analysis using ELK for Log Analysis." (2020).

10. Sahana, B. & Sadhana, B. & Mohan, Mamatha & Rajendran, Sindhu. (2023). An Artificial Intelligence-based Method for Detecting False news in Health Sector During a Pandemic. 10.2174/9789815196054123050010.
11. Praveen B & Sindhu Rajendran. "Logging and Troubleshooting in Network Devices", IJSDR - International Journal of Scientific Development and Research (www.IJSDR.org), ISSN:2455-2631, Vol.8, Issue 5, page no.2461 - 2464, May-2023, Available :<https://ijsdr.org/papers/IJSDR2305387.pdf>

International Conferences:

1. V. Shashank Reddy and S. Rajendran, "Two Stage Non-Linear Pose estimation of Non-Cooperative satellites using Deep Keypoint Detection," 2024 15th International Conference on Computing Communication and Networking Technologies (ICCCNT), Kamand, India, 2024, pp. 1-6, doi: 10.1109/ICCCNT61001.2024.10724479.
2. S. Rajendran, R. S and S. N. Kumar, "Cost-Effective Electronic Voting Machine," 2023 7th International Conference on Computation System and Information Technology for Sustainable Solutions (CSITSS), Bangalore, India, 2023, pp. 1-5, doi: 10.1109/CSITSS60515.2023.10334246.
3. M. Nithyashree, K. P. Nadgir, P. N and R. S. Rajendran, "Smart Ambulance Management System with Real-Time Patient Monitoring," 2023 International Conference on Network, Multimedia and Information Technology (NMITCON), Bengaluru, India, 2023, pp. 1-6, doi: 10.1109/NMITCON58196.2023.10276354.
4. V. P, G. C and S. Rajendran, "Enhancing Autonomous Vehicles: Robust Sign Board and Lane Detection," 2023 7th International Conference on Computation System and Information Technology for Sustainable Solutions (CSITSS), Bangalore, India, 2023, pp. 1-6, doi: 10.1109/CSITSS60515.2023.10334160.
5. Sindhu Rajendran; Aryan Porwal; Kumari Anjali; Anvaya; R. J. Anuradha, "Portable IoT Devices in Healthcare for Health Monitoring and Diagnostics," in Internet of Things in Bioelectronics: Emerging Technologies and Applications , Wiley, pp.263-296, doi: 10.1002/9781394241903.ch13.
6. S. Prasad, M. P, R. Adhyapak, A. N. Pai, V. Gadad and S. Rajendran, "Design and development of information management system using QR code based technique," 2023 International Conference on Intelligent and Innovative Technologies in Computing, Electrical and Electronics (IITCEE), Bengaluru, India, 2023, pp. 260-263, doi: 10.1109/IITCEE57236.2023.10091058.

Book chapters:

Sl.no	Chapter Title	Year	Author	Book title
1	Cyber Physical Systems in Autonomous and Unmanned Aerial Vehicles	2024	<i>Sindhu Rajendran*, Shreya S., Alaska Tengli, Ramavenkateswaran N.</i>	<i>Cyber Physical Systems - Advances and Applications</i>
2	Cyber-Physical System: Advances and Applications in Cyber Security	2024	<i>Sindhu Rajendran*, Shilpa S.P., Sai Priya L., Ramavenkateswaran N.</i>	<i>Cyber Physical Systems - Advances and Applications</i>

3	An Artificial intelligence based method for detecting false news in health sector during a pandemic	2023	B.Sahana,B,Sadhana,Mamatha mohan and Sindhu Rajendran	<i>IoT and Big data analytics</i>
4	Revolutionizing digital marketing using machine learning	2023	<i>Saba, N.S., Gandhi, R., Rajendran, S., Abraham, N.D.</i>	<i>Contemporary Approaches of Digital Marketing and the Role of Machine Intelligence</i>
5	Industrial internet of things: Architecture and its applications	2023	<i>Kantanavar, P., Rajendran, S.</i>	<i>Internet of Things: Applications for Sustainable Development</i>
6	Role of ML and DL in Detecting Fraudulent Transactions	2023	<i>Rajendran, S., John, A.A., Suhas, B., Sahana, B.</i>	<i>Intelligent Systems Reference Library</i>
7	Diagnosis of Mental Illness Using Deep Learning: A Survey	2023	<i>Rajendran, S., Gandhi, R., Smruthi, S., Chaudhari, S., Kumar, S.</i>	<i>Intelligent Systems Reference Library.</i>
8	A Survey on Type-2 Fuzzy Logic Systems in Healthcare	2023	<i>Rajendran, S., Sahana, B., Farheen, S., Meghana, B.N., Babu, S.T.</i>	<i>Studies in Fuzziness and Soft Computing</i>
9	Health Informatics System using Machine Learning Techniques	2022	<i>Sindhu Rajendran, N. Ramavenkateswaran, Prashant Abbi, Khushi Arora, Praveen Kumar Gupta, Mayank Anand</i>	<i>Deep Learning for Healthcare Decision Making</i>

10	Advancements in Healthcare Using Wearable Technology	2021	Sindhu Rajendran, Surabhi Chaudhari, Swathi giridhar	<i>Computational Intelligence in Healthcare</i>
11	The essence of deep learning for security issues- An update	2019	Sindhu Rajendran R, Praveen Kumar Gupta , Lingayya Hiremath, S Narendra Kumar, Ajeet Kumar.	<i>Handbook of Research on Deep Learning Innovations and Trends.</i>
12	An Overview on the concept of Speaker Recognition	2018	Sindhu Rajendran R, Meghamadhuri Vakil, Praveen Kumar Gupta , Lingayya Hiremath, S Narendra Kumar, Ajeet Kumar.	<i>Intelligent Systems for Biometric Systems, Soft Computing, Image Processing, and Data Analytics</i>
13	An update on effective patient monitoring and diagnosis of diseases in the current scenario.	2017	Sindhu Rajendran R, Meghamadhuri Vakil, Praveen Kumar Gupta , Lingayya Hiremath, S Narendra Kumar, Ajeet Kumar.	<i>Studies in Computational Intelligence</i>