

PUBLICATIONS

A. International Journal Papers:

1. Shashidhar R et al. "Computer vision and the IoT-Based Intelligent Road Lane Detection System" *Mathematical problems in Engineering*, Vol, 2022, Article ID4755113, 8 pages, 2022. <https://doi.org/10.1155/2022/4755113>(SCIE, Q2 Journal, Impact Factor-1.4)
2. Shashidhar R and Sudarshan Patilkulkarni "Audiovisual speech recognition for Kannada language using feed forward neural network" *Neural Computing and Applications*, 2022, <https://doi.org/10.1007/s00521-022-07249-7>
3. Shashidhar R et al "**Indian Sign Language Recognition Using 2-D Convolution Neural Network and Graphical User Interface**" *Indian Journal of Science and Technology*. International Journal of Image, Graphics and Signal Processing(IJIGSP), Vol.14, No.2, pp. 61-73, 2022.DOI: 10.5815/ijigsp.2022.02.06
4. Shashidhar, R., Patilkulkarni, S. & Puneeth, S.B. "**Combining audio and visual speech recognition using LSTM and deep convolutional neural network**" *International Journal of information technology*. (2022). <https://doi.org/10.1007/s41870-022-00907-y>
5. Shashidhar R "An Automated Prediction Model for College Admission System" *Elementary Education Online* Vol 20 (Issue 6): pp. 1172-1180, 2021.doi: 10.17051/ilkonline.2021.06.124
6. Shashidhar R, Sahana V, Chakraborty S, Puneeth SB, Roopa M. (2021) Recognition of Tablet using Blister Strip for Visually Impaired using SIFT Algorithm. *I14(23)*: 1953-1960. <https://doi.org/10.17485/IJST/v14i23.750>
7. Shashidhar R and sudarshan patilkulkarni "Visual speech recognition for small scale dataset using VGG16 convolution neural network". *Multimed Tools Appl* (2021). <https://doi.org/10.1007/s11042-021-11119-0>(Impact Factor-2.97 &SCI Index- Q1 Journal).
8. Nikhil S. Mangrulkar , Kavita R. Singh , Mukesh Raghuvanshi and Shashidhar R. (2020)"Parsing Expression Grammar and Packrat Parsing -A Review" *Journal of University of Shanghai for Science and Technology*, Volume 22, Issue 12, December – 2020, PP-895-901 D.O.I-10.51201/12368.
9. Shashidhar, R., Shruthi, B. R., Hariprasad, S. A., and Singh, K. R. (2020). Real-Time Fatigue Detection using a Low Cost Wireless EEG Device. *I-manager's Journal on Embedded Systems*, 8(2), 8-13. <https://doi.org/10.26634/jes.8.2.17197>
10. Sooraj V, Hardhik M, Nishanth S Murthy, Sandesh C, Shashidhar R "Lip-Reading Techniques: A Review "International Journal of Scientific & Technology Research Volume 9, Issue 02, February 2020

11. Shashidhar R, Abhilash S, Sahana V, Aloka N A, Roopa M "IOT Cloud: In Health Monitoring System" International Journal of Scientific and Technology Research, Volume 9, Issue 1, January 2020
12. Prajwal M J., Tejas K B., Varshad V., Mahesh Madivalappa Murgod and Shashidhar R "Detection of Non-Helmet Riders and Extraction of License Plate Number using Yolo v2 and OCR Method" International Journal of Innovative Technology and Exploring Engineering (IJITEE) Volume 9, Issue 2, pp 5167-5172, 2019 DOI: DOI: 10.35940/ijitee.B6527.129219
13. Prajwal M J., Tejas K B., Varshad V., Mahesh Madivalappa Murgod and Shashidhar R (2019) "A Review on Helmet Detection by using Image Processing and Convolutional Neural Networks" International Journal of Computer Applications 182(50):52-55, April 2019 DOI: 10.5120/ijca2019918770
14. Nayana R, Shashidhar R (2019) "Smart Door Lock System" International Journal for Modern Trends in Science and Technology (IJMTST), Volume 5, issue 2, February 2019, PP-36-38.
15. Shreekanth T, Shashidhar R and Basavaraju N M, "Performance Evaluation of Edge detection techniques in Spatial and Frequency domain", International Journal of Multimedia and Image Processing (IJMIP), Volume 7, Issue 1, March 2017.
16. Shashidhar R, Mahalingaswamy A.M, Santhoshkumar R, Roopa M, "Design and Implementation of Low Power Pipelined 32-bit High Performance RISC Core", 2016 MAT JOURNALS Journal of Electronics and Communication Systems, PP. 1-7, volume-1, Issue-1, March 9, 2016.
17. Shashidhar R., Rashmi K.T. "A new approach for Classifying land development in High-Resolution Remote Sensing Images" in IJIRSET, Volume 3, Issue 3, March 2014.
18. Shashidhar R, Sujay S.N, Pavan G.S. "Implementation of Bus Arbiter Using Round Robin Scheme" in IJIRSET, Volume 3, Issue 7, July 2014, Impact Factor -5.44

B. International Conferences Papers:

1. Shashidhar R et al. "**Mouse Cursor Control Using Facial Movements - An HCI Application**" International Conference on Sustainable Computing and Data Communication Systems ICSCDS- 2022, Vishwakarma Institute of Technology, Pune, Maharashtra, India on April 07-09, 2022. <https://doi.org/10.1109/ICSCDS53736.2022.9760914>
2. Shashidhar R et al. "**Movie Recommendation and Sentiment Analysis Using Machine Learning**" International Conference on Intelligent Engineering Approach ICIEA-2022, H.K.E. Society's S.L.N.

College of Engineering, Raichur, Karnataka on **12th February 2022**..<https://doi.org/10.1016/j.gltp.2022.03.012>

3. Shashidhar R et al. **“Real-time object distance measurement using stereo vision image processing”** 2nd International Conference on Big Data, Machine learning and Applications (BigDML 2021) held during 19-20, December 2021 organized by the Department of Computer science and Engineering, National Institute of Technology, Silchar, India
4. Shashidhar R et al. **“Vehicle number plate detection and recognition using YOLO- V3 and OCR Method”** IEEE International Conference on Mobile Networks and Wireless Communications (ICMNWC-2021) in association with IEEE Bangalore Section during 03-04 December 2021 at Sri Siddhartha Institute of Technology, Tumkur, Karnataka.
<https://doi.org/10.1109/ICMNWC52512.2021.9688407>
5. Shashidhar R et al “Block Chain Based Agricultural Supply Chain-A Review” ICCSA-2021 held on 16th July 2021 at AIT, Bengaluru.
6. Shashidhar R et al "Novel Approach for Stegnography to Camouflag Digital Information using Least Significant Bit " 3rd International Conference on computational Intelligence in Pattern Recognition CIPR 2021 held on 24th & 25th April 2021, Kolkata, India.
7. Nagarjuna G R, Shashidhar R “IoT Enabled smart traffic system for public and Emergency Mobility in smart city” ISMAC 2020 held on 7th -9th October 2020.
8. Mohammed Safeel, Tejas Sukumar, Shashank K S, Arman M D, Shashidhar R, Puneeth S “Sign Language Recognition Techniques- A Review” 2020 IEEE International Conference for Innovation in Technology (INOCON), 6-8 Nov. 2020, Bangluru, 2020, pp. 1-9, doi: 10.1109/INOCON50539.2020.9298376.
9. Shashidhar R, S. Patilkulkarni and Puneeth S. B, “Audio Visual Speech Recognition using Feed Forward Neural Network Architecture” 2020 IEEE International Conference for Innovation in Technology (INOCON), 6-8 Nov. 2020, Bangluru, 2020, pp. 1-5, doi: 10.1109/INOCON50539.2020.9298429.
10. Lokesh A R, Shashidhar R “A survey on MQTT-Protocol of Internet of Things” 4th International Conference on Communication and Electronics Systems (ICCES-2019), July 17-19, PPGIT Coimbatore,
11. Shashidhar R, Shruthi B R, Alok N A, Nandini D B, Hariprasad S A, Shreekanth T “Real-Time Fatigue Detection Using a Low Cost Wireless

- EEG Device” ICEECCOT,2018 on 14th &15th December 2018 at GSSSIETW, Mysuru.
12. Santhosh kumar R, Shashidhar R, Mahalingaswamy A M, Praveen Kumar M S, Roopa M “Design of High Speed AES System for Efficient Data Encryption and Decryption System using FPGA” ICEECCOT,2018 on 14th &15th December 2018 at GSSSIETW, Mysuru.
 13. Swasthik B, Srihari H N, Vinay Kumar M K, Shashidhar R “Smart Assist for Alzheimer’s Patients and Elderly People” International Conference on Computing Vision and Bio Inspired Computing (ICCVBIC 2018) on 29-30 November 2018
 14. Sohan N, Ruthuja S. Urs, Sai Rishab H S,Shashidhar R” Smart Assistant Shoes for Blind” International Conference on Computing Vision and Bio Inspired Computing(ICCVBIC 2018) on 29-30 November 2018
 15. Shubhom V.T, Swathi S, Keerthan S, Abhiram G, Shashidhar R "Brapter: Compact Braille Transput Communicator" International Conference on Consumer Electronics Asia(ICCE-Asia)- 2017 on 5th and 7th October 2017 at Bangalore DOI: 10.1109/ICCE-ASIA.2017.8309319
 16. Shreekanth T, Shashidhar R "An Application of Image Processing Technique for Compression of ECG Signals based on Region of Interest Strategy" ICCBIC 2017 on 21-22nd September 2017 at Coimbatore(Scopus Index, Springer - Lecture Notes in Computational Vision and Biomechanics) DOI: https://doi.org/10.1007/978-3-31971767-8_85
 17. Mahalingaswamy A. M, Shashidhar R, Santhoshkumar R, Roopa M "Self Dependent Tool For Quadriplegic Patient Using Home Automation" ICSIPCA-2017 on 6th and 7th July, 2017 at JSSATE, Bangalore (Tata McGraw Hill Journal)
 18. Shashidhar R, Santhoshkumar R, Mahalingaswamy A.M, Roopa M, “FPGA Implementation of Low Power Pipelined 32-bit RISC Processor Using Clock Gating”, 2016 ICECT 1st International Conference on Data Engineering and Communication Technology, pp.79 Lavasa City, Pune-India. March 10-11,2016.

C. Book Chapters:

1. Shashidhar R., Kumar M.S., Arunakumari B.N., Santhosh kumar R., Patilkulkani S. (2022) Novel Approach for Steganography to

- Camouflage Digital Information Using Least Significant Bit. In: Das A.K., Nayak J., Naik B., Dutta S., Pelusi D. (eds) Computational Intelligence in Pattern Recognition. Advances in Intelligent Systems and Computing, vol 1349. Springer, Singapore. https://doi.org/10.1007/978-981-16-2543-5_47.
2. B.N. Arunakumari, Aman Rai, Shashidhar R "An Ameliorated Methodology to Predict Diabetes Mellitus Using Random Forest" Data science and Data Analytics, 1st Edition, Pag no 14, Taylor & Francis 2021
 3. Sohan N., Ruthuja S.U., Rishab H.S.S., Shashidhar R. (2020) Smart Assistive Shoes for Blind. In: Smys S., Ilyyasu A.M., Bestak R., Shi F. (eds) New Trends in Computational Vision and Bio-inspired Computing. ICCVBIC 2018. Springer, Cham. https://doi.org/10.1007/978-3-030-41862-5_61
 4. Swasthik B., Srihari H.N., Kumar M.K.V., Shashidhar R. (2020) Smart Assist for Alzheimer's Patients and Elderly People. In: Smys S., Ilyyasu A.M., Bestak R., Shi F. (eds) New Trends in Computational Vision and Bio-inspired Computing. ICCVBIC 2018. Springer, Cham. https://doi.org/10.1007/978-3-030-41862-5_59
 5. Shashidhar R "Delivery and Evaluation methods for Effective Teaching" in INNOVATIVE TEACHING PRACTICES FOR 4G STUDENTS, Published by IOR International Press. Page no.197-205, DOI:10.34256/iorip19142