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|  | Name | Dr. Sachin Balkrushna Jadhav | | | |
| | Designation | Associate Professor | | | |
| | Department | Electronics and Telecommunication | | | |
| | Qualification | Ph.D. (Electronics Engineering) | | | |
| | Contact No. | 8788074450 | Ph. Extension | | |
| | Email ID | sbjadhav@bvucoep.edu.in | | | |
| | Experience | Teaching : | 14 | Industry : | Nil |

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| Area Of Interest | Image Processing, Deep Learning, VHDL/Verilog Programming, Microcontroller | | | |
| Publications | International Journal (s): | 11 | National Journals (s) : | Nil |
| | International Conference (s): | 02 | National Conference: | 01 |
| Publication Details | <p><u>INTERNATIONAL JOURNALS:</u></p> <ol style="list-style-type: none"> S. B. Jadhav, Dr. V. R. Udupi, and Dr. S. B. Patil, “Identification of Pant diseases using convolutional neural networks” International Journal of Information Technology, Int. j. inf. tecnol. (2020), (SPRINGER)-BJIT, https://doi.org/10.1007/s41870-020-00437-5. S.B. Jadhav, Dr. V. R. Udupi and Dr. S. B. Patil, “Efficient framework for soybean leaf disease detection and classification using machine learning algorithm”, Image Processing and Capsule Networks [IPCN], AISC - Advances in Intelligent Systems and Computing, Vol. 1200, PP.718-729, (SPRINGER), DOI: https://doi.org/10.1007/978-3-030-51859-2_65. S.B. Jadhav, Dr. V. R. Udupi and Dr. S. B. Patil, “Classification of soybean diseases using pre-trained deep convolution neural networks”, Image Processing and Capsule Networks [IPCN], AISC - Advances in Intelligent Systems and Computing, Vol.1200, PP.746-756, (SPRINGER), DOI: https://doi.org/10.1007/978-3-030-51859-2_68. S.B. Jadhav, Dr. V.R. Udupi, and Dr. S. B. Patil, “Convolutional Neural Networks for Leaf Image Based Plant Disease Classification”, IAES International Journal of Artificial Intelligence (IJ-AI), Vol.8,No.4,December2019,pp.328-341. DOI: http://doi.org/10.11591/ijai.v8.i4.pp328-341. S. B. Jadhav, Dr. V. R. Udupi, and Dr. S. B. Patil, “Soybean leaf disease detection and severity measurement using multiclass SVM and KNN classifier” International Journal of Electrical and Computer Engineering (IAES-IJECE), Vol.9, No.5,2019, pp.4077-4091 DOI: http://doi.org/10.11591/ijece.v9i5.pp4077-4091. S.B. Jadhav and Dr. S.B. Patil, “Grading of Soybean Leaf Disease Based on | | | |

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| | <p>Segmented Image Using K-means Clustering”, IAES International Journal of Artificial Intelligence (IJ-AI), , Vol. 5, No. 1, March 2016, pp. 13~21ISSN: 2252-8938. DOI: http://doi.org/10.11591/ijai.v5.i1.pp13-21.</p> <p>7. Sachin B. Jadhav and Nikhil Mane “A Novel High-Speed FPGA Architecture for FIR Filter Design.” IJRES- International Journal of Reconfigurable and Embedded system, Vol. 1, No. 1, March 2012, pp. 1-10, ISSN- 2089- 4864. DOI: 10.11591/ijres.v1.i1.pp1-10.</p> <p>8. Sachin B. Jadhav, J. K. Patil, Ramesh T. Patil “Design and Implementation of Modified Partial Product Reduction Tree for High Speed Multiplication” IJRES, International Journal of Reconfigurable and Embedded System, Vol. 2, No. 1, March 2013, pp. 15-20, ISSN-2089- 4864. DOI: http://doi.org/10.11591/ijres.v2.i1.pp15-20.</p> <p>9. S. B. Jadhav, Dr. V. R. Udupi, and Dr. S. B. Patil, “A review on Image Processing Techniques for Plant Leaf Disease Detection and Classification” International Journal for Research in Engineering Application & Management (IJREAM), Vol.5, Issue 01, April 2019, pp.250-255 (Indexed by UGC, THOMSON REUTERS, and DOAJ).</p> <p>10. S. B. Jadhav, Dr. V. R. Udupi, and Dr. S. B. Patil, “Recognition of Plant leaf Diseases Using Learning Vector Quantization Neural Network Classifier” IOSR Journal of Computer Engineering (IOSR-JCE), Vol.21, Issue 3, Ser-II (May-June 2019), pp.41-49. (Indexed by UGC, Cross Ref, NASA).</p> <p>11. S.B. Jadhav, Dr. V .R. Udupi, and Dr. S .B. Patil, “Grading Soybean Leaf Disease Based on Segmented Image Using K-means Clustering” International Journal of Advanced Research in Electronics and Communication Engineering (IJARECE) Volume 4, Issue 6, January 2015, ISSN: 2278 – 909X (Indexed by Index Copernicus, and Google Scholar).</p> <p><u>INTERNATIONAL CONFERENCES:</u></p> <p>1] S.B. Jadhav, Dr. V. R. Udupi, and Dr. S.B. Patil, “Efficient framework for soybean leaf disease detection and classification using machine learning algorithm”). In: Chen JZ., Tavares J., Shakya S., Iliyasu A. (eds), International Conference on Image Processing and Capsule Networks ICIPCN 2020, (SPRINGER) Bangkok, Thailand.</p> <p>2] S.B. Jadhav, Dr. V. R. Udupi, and Dr. S.B. Patil, “ Classification of soybean diseases using pre-trained deep convolution neural networks”. In: Chen JZ., Tavares J., Shakya S., Iliyasu A. (eds), International Conference on Image Processing and Capsule Networks ICIPCN 2020, (SPRINGER) Bangkok, Thailand.</p> |
| Books Published | “Design and Implementation of Multiply and Accumulate unit for High Speed |

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| | multiplication” , Lambert Publication Germany, 2014, ISBN: 978-3-659-66291-1 |
| Professional Memberships | IAENG - International Association of Engineers |
| Workshop/ Seminar/Conference attended | <ol style="list-style-type: none"> 1. Continuing Education Program: 15 days STTP course on “Fundamentals and Recent Advances in RF and microwave communication” at Indian Institute of Technology Kharagpur (IIT Kharagpur), 2009. 2. Two-Week ISTE STTP on, Effective Teaching- Learning of Computer Programming, at Indian Institute of Technology, Bombay (IIT Bombay), 2010. 3. 2018 IEEE CIS Summer/ Winter School On “Deep Learning and Computational Intelligence”, Indian Institute of Technology Kanpur (IIT, Kanpur), India, December 2018. 4. Faculty Deployment Program (FDP) on, “Computer Vision and Image Processing”, E&ICT ACADEMY, Indian Institute of Technology Roorkee (IIT, Roorkee), India, December 2020. 5. Winter Training Program (WTP) on, “Deep Learning and Its Applications”, E&ICT ACADEMY, Indian Institute of Technology, Roorkee (IIT, Roorkee), India, December 2020. 6. “PYTHON + MATLAB Based Summer Research School on convex optimization for Machine Learning and 5G Wireless Technology, Department of Electrical Engineering”, Indian Institute of Technology, Kanpur (IIT, Kanpur), India, 14th to 27th June 2021. 7. One Week Online Faculty Development Program on “Signal, Image & Video Processing: A Practical Approach” (SIVPAPA-2020) under Technical Education Quality Improvement Program (TEQIP-III) organized by Department of Electronics & Telecommunication Engineering, Government College of Engineering Karad, Maharashtra, India, during May 26-30, 2020. 8. Two Days Workshop on –QIP- Embedded System Design, College of Engineering Pune (COEP), 2008. 9. Two Days Workshop on –QIP-Getting Started with MATLAB, College of Engineering Pune (COEP), 2008. 10. Two Days Workshop on – “Advanced Digital Signal Processing” at, Shri Guru Gobind Singhji Institute of Engineering and Technology (SGSIET), Nanded, 2010. 11. FDP on-Research Methodology: Data Collection Methods, Research Tools and Techniques” from 9th June 2020 to 15th June 2020 organized by AISSMS Institute of Information Technology, Pune. |
| Achievements | |

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| | <p><u>PATENT(S):</u></p> <p>“Automatic Plant Leaf Disease Diagnosis With machine Learning And Deep Convolutional Neural Networks”, Application Number: 202121003281, Intellectual Property India (Published).</p> <p><u>AWARDS:</u></p> <ol style="list-style-type: none"> 1. Reviewing Award: Computer and Electronics in Agriculture (Elsevier-Publication). 2016 & 2019. 2. Rastriya Vidya Gaurav Gold Medal Award : Indian Solidarity Council New Delhi, 2017 3. PG –Teacher Recognition – Shivaji University Kolhapur-2015 |
| <p>Extra Activities</p> | <p>STTP Organized:</p> <ol style="list-style-type: none"> 1. One -week ISTE-STTP workshop on “Recent Trends in Communication system and Research methodology”, at Bharati Vidyapeeth College of Engineering Kolhapur, 2013-14. 2. One -week ISTE-STTP workshop on “Recent Trends in Advance Network System & Image processing”, Bharati Vidyapeeth College of Engineering Kolhapur, 2014-15 |