

R. S. Hegadi ^{PhD}

Senior Member – IEEE

<https://rshegadi.wixsite.com/home>



Dean – School of Computer Sciences
Associate Professor and Head – Dept. of Computer Science
Central University of Karnataka, Kadaganchi, Kalaburagi – 585367, INDIA
Cell No.: (+91) 944080 23871, 96040 85138
Email: rshegadi@gmail.com, rshegadi@cuk.ac.in

AREA OF RESEARCH

Digital image processing, Computer vision, Medical image analysis, Document image analysis, Biometrics, Robotics, Data Science, Machine Learning, AI.

CAREER HIGHLIGHTS

Central University of Karnataka, Kadaganchi, Kalaburagi (Jan 2020 – till date)

- Dean, School of Computer Sciences (From 2020 till date)
- Associate Professor and Head, Department of Computer Science (From 2020 till date)
- Nodal Officer – Project Samarth (CUK), Ministry of Education, Government of India (From 2020 till date)
- Teaching for the courses MCA and Guiding PhD scholars

PAH Solapur University, Solapur (Feb 2012 – Jan 2020)

- Professor and Head, Department of Computer Science (From 2015 to 2020)
- Director, IQAC/NAAC (From 2018 to 2020)
- Nodal Officer and Project Guide – Visvesvaraya PhD Scheme, Ministry of Electronics and IT, Government of India (From 2015 to 2020)
- Director, Innovation, Incubation and Linkages (2018 – 2019)
- Coordinator, University level AVISHKAR Research Competition (2015-17)
- Coordinator, University Instrumentation Centre (2018 – 2019)
- Director, School of Computational Sciences (2015 – 2018)
- Associate Professor and Head, Department of Computer Applications (2012 – 2015)
- Teaching for the courses MCA, M.Sc. (Computer Science) and Guiding PhD scholars

Karnatak University, Dharwad (Jul 2008 – Jan 2012)

- Assistant Professor and Principal Investigator for UGC Major research project
- Taught courses MCA, M.Sc. (computer Science)
- Organized workshops and events.

Government First Grade College, Vijayanagar, Bangalore (Jan 2008 – Jul 2008)

- Worked as Head the Department of Computer Science.
- Guided BCA and BSc (Computer Science) students for Projects.

Government Boys College, Raichur (Feb1997 – Jan 2008)

- Worked as Lecturer in the Department of Computer Science.
- Taught the Undergraduate courses and guided the UG projects

RESEARCH

My other research interests are Character Recognition, Document Image Analysis, Neural Information processing, Deep learning, CNN, Fuzzy theory, Deformable models, Image processing, Pattern recognition, Data and Image Mining.

Research Guidance:

Ph. D.: Guided: 10, Guiding: 04, Thesis submitted: 02

M.Phil.: Guided: 16

COURSES TAUGHT

Digital image processing, Soft computing (neural network and fuzzy logic), Computer communication and networks, database management system, Java programming, System simulation.

PUBLICATIONS

- International Journals: 76
- Other Journals: 01
- International Conference Proceedings: 57
- National Conference Proceedings: 07
- Edited Books: 05
- Invited talks/Keynote Speech: 45
- Book chapters: 34
- Patents: 01 (Published)
- Articles indexed: 85 (Scopus), 05 (SCI/SCI-E)
- h – index: 18 (Google scholar), 10 (Scopus)
- i10 – index: 35 (Google scholar), 10 (Scopus)
- Citations: 1108 (Google scholar), 345 (Scopus)

ACADEMIC CREDENTIALS

- Carried out Ph.D. in Computer Science under the guidance of Dr. B. V. Dhandra, Professor, P.G Dept. of Computer Science, Gulbarga University in the year 2007. The title of the thesis is: “A Study on Pattern Classification and Analysis of Medical Images”.
- Completed M.Phil. in the year 2003, from the Gulbarga University, under the guidance of Dr. B. V. Dhandra, securing 85% of marks.
- Completed M.C.A in the year 1995 from Gulbarga University, securing 80% of marks.
- B. Sc from Gulbarga University, Gulbarga in 1991 and secured first class.
- Secured first class in X and XII classes.
- NCC “C” Certificate holder.

RESEARCH PROJECTS AND GRANTS

- Research grants and fellowships:
 - 2015-2020: Department of Electronics and IT (DeitY) Visvesvaraya Ph.D. Scheme for Electronics and IT with fellowship for 2 Ph.D. research scholars, grants for Rs. 50.06 Lacs.
 - 2014-2019: Department of Electronics and IT (DeitY) Visvesvaraya Ph.D. Scheme for Electronics and IT with fellowship for 2 Ph.D. research scholars, grants for Rs. 50.06 Lacs.

- 2009-2012: UGC Major Research Project: A Study on Analysis of Diseases in Medical Images, File No: 34-104\2008 (SR) for Rs. 9.71 Lakhs.
- Travel grants:
 - 2012 – DST (to present paper in ICIP – 2012, Florida, USA)
 - 2010 – UGC (to present paper in ICONIP – 2010, Sydney, Australia)
 - 2006 – DST (to present paper in ICPR – 2006, Hong Kong)
- Grants for Incubation Centre:
 - 2018 – 2023: MSInS (Maharashtra State Innovation Society) Rs. 5 Crores
- Grants for organizing events:
 - 2018 – CSIR (to organize International Conference on Recent Trends on Image Processing and Pattern Recognition) Rs. 50,000/-
 - 2014 – DeitY (to organize National Conference on Recent Advances in Information Technology), Rs. 90,000/-
 - 2009 – AICTE, UGC (to organize National level Workshop on Image Processing, Vision and Pattern Recognition), Rs. 75,000/-

EVENTS ORGANIZED

- International Conference on Recent Trends in Image Processing and Pattern Recognition (RTIP2R 2018), on December 21-22, 2018 at Solapur University, Solapur.
- Two days Nation Workshop on Recent Trends in Data Warehousing and Data Mining on March 19 – 20, 2016 at Solapur University, Solapur.
- One day National level student competition for Programming and Paper presentation on January 20, 2015 at Solapur University, Solapur.
- Two days' National Conference on Recent Advances in Information Technology (NCRAIT- 2014) on February 15-16, 2014 at Solapur University, Solapur.
- One day National level student competition for Programming and Paper presentation on January 03, 2014 at Solapur University, Solapur.
- Two days' National level workshop on Matlab and Image Processing on December, 23-24, 2013 at Solapur University, Solapur.
- Two days National level Workshop on Image Processing, Vision and Pattern Recognition on March, 29-30, 2010 at Karnatak University, Dharwad funded by UGC and AICTE.
- Two days' workshop on Data Warehousing and Business Intelligence on October, 10-11, 2009 at Karnatak University, Dharwad.

INVITED TALK/KEYNOTE TALK

- Delivered invited talk on Medical Imaging: Research Opportunities and Challenges at AICTE Sponsored Short Term Training Program on Bio-Medical Systems Design using Artificial Intelligence & Machine Learning, 7-12, September 2020, G. H. Raisoni College of Engineering, Nagpur
- Delivered invited talk on Big Datasets and Predictive Analytics at Ten Days Faculty Development Program – Knockdown the Lockdown held on 10th June 2020 by KLE Society's Basavaprabhu Kore College of Computer Applications, Chikodi

- Delivered invited talk on Mathematics in Image Processing at National level Webinar on "Mathematics is Everywhere" held on 12 May, 2020, organized by Shri Kadasiddheshwar Arts College and H S Kotambri Science Institute, Hubballi, Karnataka
- Delivered Invited talk on Biomedical Image Processing using Deep Learning 3rd International Conference on Recent Trends in Image Processing and Pattern Recognition, held on April, 2-5, 2020, at Dr. Babasaheb Ambedkar Marathwada University, Aurangabad
- Delivered talk as Resource Person on e – Learning: Today's Challenge, Tomorrow's Reality in Refresher Course on e – Governance and e – Learning (ID) from 1-14 November 2019 at UGC HRDC, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.
- Delivered Chief Guest talk on Intellectual Property Rights at One day State level workshop on IPR held on 30 August 2019 at Mauli Mahavidyalay, Wadala, Solapur.
- Delivered Invited Talk on Student Satisfaction Survey: Challenges at Two Days NAAC Sponsored National Conference on Student Satisfaction Survey and Distinctive Extension Activities in Rural Areas on 26-27 April 2019 at Arts, Commerce and Science College, Kille-Dharur, Dist. Beed, Maharashtra.
- Delivered Invited Talk on Medical Imaging: Research Problems and Challenges at National Seminar on Digital Image Processing and Computer Vision held on 1-2, April 2019 at Department of Computer Science, Veer Narmad South Gujarat University, Surat, Gujarat, India.
- Delivered Invited Talk on Plagiarism at One day Seminar on New Trends and Technologies in Library and Information Science on 16th March 2019 at Laxmibai Bhaurao Patil Mahila Mahavidyalaya, Solapur, Maharashtra.
- Delivered Invited Talk on Artificial Intelligence and Robotics at One Day State level Seminar on Recent Developments in Information Technology (RDIIT 2019) held on 5th March 2019 at Dayanad College of Arts and Science, Solapur, Maharashtra.
- Delivered Invited Talk on Effective use of Open source ICT tools in teaching-learning at 106th Indian National Science Congress organized by Indian Science Congress Association on 3-7 January 2019 at Lovely Professional University, Jalandhar, Punjab, India. Conducted Workshop sessions on S-1: Digital Image Processing - Basic Concepts & Algorithms S-2: Face Recognition using LBP at One day National level Workshop on Data Science and Image Processing using Python, held on 31, August 2018 at Government First Grade College, Raichur, Karnataka.
- Delivered invited talk on Medical Imaging: Research Problems and Challenges in UGC Sponsored two days National Conference on Network Security, Image Processing and Information Technology, held on 17-18, March, 2017 at Sahyadri Arts College, Shivamogga, Karnataka.
- Conducted workshop sessions on Topic 1: Enhanced Clustering and Privacy preserving on Big Datasets and Topic 2: Big Datasets and Predictive Analytics in International Conference World Congress on Computing, and Communication Technologies (WCCCT) held from 2-4, February, 2017 at St. Josephs College (Autonomous), Thiruchirappalli, Tamil Nadu.

- ❑ Conducted workshop session on Morphological Image Processing in Three Days Workshop on Image Processing and Its Applications, from 23-25, January, 2017 at S. G. Balekundri Institute of Technology, Belagavi.
- ❑ Conducted workshop session on Applications of Graph Theory in Image Processing in Two weeks' FDP workshop on Graph Theory-Algorithms and Applications from 26th December, 2016 to 7th January 2017 at BMS College of Engineering, Bengaluru.
- ❑ Delivered Invited Talk on Medical Imaging: Problems and challenges in National Conference on Current Advances in Human-Computer Interaction on 23-24, December 2016 at College of Computer Science and Information Technology, Latur.
- ❑ Conducted one day workshop on Image Processing in Matlab on 15, December, 2016 in International Conference on Recent Trends in Image Processing and Pattern Recognition (RTIP2R 2016) held on 15- 17, December, 2016 at Karnataka College, Bidar.
- ❑ Conducted workshop on Image Processing with Matlab and Latex on 17-18, September, 2016 at Sangameshwar College, Solapur.
- ❑ Conducted workshop on Scientific Writing with Latex on the National Science Day held on February 28, 2015 at Government First Grade College, Raichur, Karnataka.
- ❑ Delivered invited talk on Audio and Video Processing in Two days National Workshop on Pattern Recognition and Image Analysis (PRIA 2016) on 7-8, October, 2016 at Swami Ramanand Teerth Marathawada University, Nanded Sub Centre Latur.
- ❑ Delivered invited talk on Medical Imaging: Research Problems and Challenges in National Conference on Recent Trends in Image Processing and Pattern Recognition (RTIP2R-2016) held on April, 2-3, 2016 at Karnataka College, Bidar.
- ❑ Delivered invited talk on Database Management System in One Week National Workshop on Advanced Technologies in Computer Science held on February, 22-27, 2016 at Kuvempu University, Shankaraghatta, Shivamogga.
- ❑ Delivered keynote speech on Research avenues in Medical Imaging in National level Conference on Advances in Computer Engineering (ACE 2016) held on February 26, 2016 at Vidya Vikas Pratishthan Institute of Engineering and Technology, Solapur.
- ❑ Delivered invited talk on Medical Image Analysis: Problems and Challenges in Faculty Development Programme on Research Methodology and Issues held on June 8-12, 2015 at B.L.D.E.A's V.P. Dr. P.G.Halakatti College of Engineering & Technology, Bijapur.
- ❑ Delivered Keynote speech on Applications of Morphology in Image Processing in the National Workshop on Recent Advances in Information Processing held on February 27, 2015 at Vidnyan Mahavidyalaya, Sangola.
- ❑ Chaired the Technical Session in International Conference on Globe Unified: Role of ICT (GURICT – 2015) held on 12 – 14, February 2015 at Sinhgad Institute of Management, Vadgaon, Pune, Maharashtra.
- ❑ Delivered invited talk on Role of Mathematical Morphology in Image Processing in National Conference on Applied Mathematics: Numerical Analysis, Algebra and Computational Mathematics, held on 30 – 31, January, 2015 at Gudleppa Hallikeri College, Haveri, Karnataka.

- Delivered invited talk on Morphological Image Processing in National level STTP on Image Processing and Machine Learning held on 22 – 26, December, 2014 at NBN Sinhgad College of Engineering, Solapur, Maharashtra.
- Delivered invited talk on Quality issues in Data Migration in National level STTP on Latest trends in Data Mining and Machine Learning held on 20 – 24, November, 2014 at College of Engineering, Pandharpur, Maharashtra.
- Delivered talk as Chief Guest at State Level Workshop on World Class Research Paper Writing held on November 9, 2014 at Sangola College, Sangola.
- Delivered talk as Chief Guest at SPECTRUM 2014 – State Level Technical Festival held on September 27, 2014 at SKN Sinhgad College of Engineering, Pandharpur.
- Delivered invited talk on Research trend in Medical Image Analysis in the VTU-VGST Faculty development programme on Advances in Biomedical Instrumentation for Quality Health organized by Department of Electronics and Instrumentation Engineering held on July 22-26, 2014 at University BDT College of Engineering, Davangere, Karnataka.
- Delivered invited talk on Research trend in Medical Image and Image Processing with Matlab in the ISTE short term training programme on Recent Trends in Image Processing organized by Department of Electronics and Communication on July 8 - 11, 2014 at Don Bosco College of Engineering, Fotarda, Margoa, Goa.
- Delivered invited Talk on Scientific Document Writing Using LATEX in the National Level workshop on Learning Effective Document Writing using LATEX Organized by P. G. Department of Computer Science held on March 30, 2014 at Karnataka Arts, Science and Commerce College, Bidar.
- Delivered invited Talk on Research opportunities in Digital Image Processing in the National Level Seminar on Computer Science TANTRIKEYA 2K14 Organized by Department of Computer Science held on March 10-11, 2014 at Davanagere University, Davanagere.
- Delivered invited Talk on Research Opportunities in Image Processing in the National Conference “Managealization 2014: The Role of Management and IT in held on March 1st, 2014 at Dr. Babasaheb Ambedkar Marathawada University Sub-Campus, Osmanabad.
- Delivered talk as Chief Guest at State Level Contest SoftInsignia v.14 held on 14 – 15, February 2014 at A. G. Patil Polytechnic Institute, Solapur, Maharashtra.
- Delivered talk as Chief Guest at 5th National Level Programming and Technical Quiz Contest RX – TechTonic 2014 held on 27th January, 2014 at Sinhgad Institute of Business and Management, Kamalapur, Maharashtra.
- Delivered invited Talk on Image Processing Concepts and Applications in the National Level Seminar on Numerical Analysis and its Applications held on January 10-11, 2014 at Gokhale Centenary College, Ankola.

- Delivered invited Talk on Image Processing: Basic Concepts and Applications in the National Conference on Computer Science and Electronics held on January 3-4, 2014 at Vidnyan Mahavidyalaya, Sangola.
- Delivered Invited Talk on Data Quality Assessment Model for Migration Business Enterprise in the Three Days Workshop on Research Trends in Data Mining under TEQIP 1.2 held on April, 4-6, 2013 by Dept. Of Computer Science and Engineering, SDM College of Engineering and Technology, Dharwad.
- Delivered invited talk on Is Mobile and Computer Languages Corrupting English? in the National level Seminar on English: The Language of Global Renaissance held on May, 13-14, 2011 Basaveshwara Arts College, Bagalkot.
- Delivered Invited Talk on Medical Image Analysis at the National level Seminar on Recent trends in Information Technology held on December, March, 6-7, 2010 at C B College, Bhalki, India.
- Delivered Invited Talk on Deformable Models and Their applications to Medical Imaging at the International Conference on Electronic Design and Signal Processing (ICEDSP-09) held on December, 10-12, 2009 at MIT, Manipal, India.
- Delivered Invited Talk on Bioinformatics and information Technology in the National level Workshop on Bioinformatics held on March, 28-30, 2009 by Dept. Of Microbiology and Biotechnology, Karnatak University, Dharwad.
- Delivered Invited Lectures at several institutions and research centres.
- Participated in ACM India Workshop on Computing Curricula organized by ACM India Pune Professional Chapter on 9th and 10th of April, 2015.
- Participated in QIP short term course on Image Processing and Pattern Recognition for Early Diagnosis of Disease organized by IIT, Kharagpur, June, 6-11, 2009.
- Participated in Short term Course on Effective E-teaching and Learning organized by IIIT-Bangalore, January, 19 –February, 13, 2009.
- Participated in 4 weeks orientation course organized by Academic Staff College, Himachal Pradesh University, Shimla, June, 1–28, 2008.

MEMBERSHIP

- IEEE Senior member
- Associate Editorial Board Member – Current Medical Imaging (CMIM)
- Member – Indian Unit for Pattern Recognition and Artificial Intelligence (IUPRAI).
- Member – International Association of Engineers (IAENG).
- Member – International Association of Computer Science and Information Technology (IACSIT).

BoS, BoE and OTHER COMMITTEE

- Chairman – BoS in Computer Science, Central University of Karnataka – 2020 onwards
- Member – Academic Council, Central University of Karnataka – 2020 onwards
- Member – Court of Central University of Karnataka – 2020 onwards
- Chairman – BoS in Computer Science, Solapur University, Solapur – 2014 to 2020

- Member – Academic Council, Solapur University, Solapur – 2014 – 2016, 2018 – 2020
- Member – Senate, Solapur University, Solapur – 2018 – 2019
- Member – BoS in Computer Science, Karnatak University, Dharwad – 2008 to 2010
- Member – BoS in Computer Science, Gulbarga University, Kalaburagi – 2017 to 2020
- Member – BoS – Computer Application in Business, BLDE's A S Patil College of Commerce, Bijapur – 2011 to 2013
- Member – BoS in Computer Science, Government Autonomous College, Mandya – 2009 to 2011
- Member – Adhoc BoS – Graphics and animation, Karnatak University, Dharwad – 2011 to 2013
- Member – BoS in Computer Science (PG), P C Jabin College, Hubli – 2011 to 2013
- Member – BoS in Computer Science, Davangere University, Davangere – 2014 to 2017
- Member – Board of examinations of
 - o Gulbarga University, Kalaburagi
 - o Karnatak University, Dharwad
 - o Karnataka State Women University, Vijayapura
 - o Mysore University, Mysore
 - o Goa University, Goa
 - o Vijayanagar Shrikrishnadevaraya University, Bellary
 - o Kuvempu University, Shimoga
 - o P C Jabin College, Hubli
 - o Bangalore University, Bangalore

COLLABORATIONS AND COLLABORATIVE RESEARCH

- University of Malta, Malta, Student and Faculty Exchange Programme
- DevLearn Mumbai for Short term Online courses
- Trailect Incorporation, USA, Trialect Global Medical Education Program – Mentoring Program, from 01-04-2018 to 31-03-2019
- Leotechsa Robotics Pvt. Ltd., Pune, India, Research & development of commercial imaging products from 2018 to 2021
- BMS Inst. of Technology & Mgt., Bangalore, India, Development of academic tools and applications from 2018 to 2023
- Carried out Collaborative research work with Prof. Tom Gedeon, Head, IHCC Research Group, School of Computer Science, College of Engineering and Computer Science, Australian National University, Canberra, Australia, from 5– 19, November, 2010.

CONSULTANCY

- M/s. Develearn Technologies Pvt. Ltd., Mumbai – 2020 on wards

ACHIEVEMENTS

- Authored book titled:
 - o Medical Image Analysis published by Lambert Academic Publishing, Germany, ISBN No: 978-3-8433-5835-4.
 - o Multilingual Document Image Analysis published by Lambert Academic Publishing, Germany, ISBN No: 978-3-8433-9094-0.
 - o Recent Trends in image processing and pattern recognition Part – 1, 2 and 3, (Edited book.) published by Communication in Computer and Information Science, Springer Nature, Springer Pvt. Ltd., Germany, ISBN No: 978-981-13-9180-4, Jul, 2019

- ☐ Paper titled “Endoscopic image classification based on active contours without edges”, has been awarded as The Best Paper of the 1st International Conference on Digital Information Management (ICDIM-2006), December, 06-08, 2006, Bangalore, India.
- ☐ Attended the Mid-term and annual meeting of Indian Academy of Science on their invitation.
- ☐ Availled SRF (Summer Research Fellowship) for the year 2011 from Indian Academy of Science and carried out research work with Dr. Chandra Sekhar Sheelamantula, Department of Electrical Engineering, IISc, Bangalore for a period of 2 months.
- ☐ Implemented Google Apps for Education for Solapur University, Solapur.
- ☐ Drafted the IT Policies and Guidelines for Solapur University.

OTHER MEMBERSHIP

- ☐ University Coordinator – Avishkar Inter-University Research Competition from 2015-2018.
- ☐ Member – University Purchase Committee, Solapur University, Solapur from 2014 –2020
- ☐ Member – ICT Committee, Solapur University from 2014.
- ☐ Member – Technical Committee, Solapur University, Solapur from 2015.
- ☐ Member – Purchase Committee, Central University of Karnataka, Kalaburagi
- ☐ Subject Expert – Board of Appointment, Central University of Karnataka, Kalaburagi
- ☐ Subject Expert – Board of Appointment, Davangere University
- ☐ Member – Maharashtra SET Paper setting Committee in Computer Science and Applications
- ☐ Member in the Karnatak University centralized Admission Committee for the academic year 2009-10, 2010-11.
- ☐ Chief Coordinator Kartnatak University PGDCA Central Valuation, June/July 2010.

VISITS ABROAD

- ☐ Hong Kong (2006) - Presented the research papers in International Conference on Pattern Recognition (ICPR-2006), funded by DST and International Association for Pattern Recognition (IAPR).
- ☐ Sydney, Australia (2010) - Presented the research paper in International Conference on Neural Information Processing (ICONIP-2010), funded by UGC.
- ☐ Florida, USA (2012) – Presented research paper in International Conference on Image Processing (ICIP-2012), funded by DST and IEEE Signal Processing Society (SPS).
- ☐ Dhaka, Bangladesh (2015) – Organized Special Session at IEEE International WIE Conference on Electronics and Computer Engineering at Bangladesh Institute of Engineering and Technology, Dhaka.
- ☐ Malta Europe (2019) – MoU with University of Malta for Student and faculty exchange program and collaborative research work with Dr. Lalit Garg, Faculty, Department of ICT, University of Malta.

AWARDS

- ☐ Biographical profile has been included and published in Marquis Who’s Who in the World 2015 edition.

Self-Declaration

The information contained above is true to my knowledge and belief.

Date: 20th September, 2020

Place: Kalaburagi, India

Dr. R. S. Hegadi

International Journals

Sl. No.	Title of the Paper	Journal Details	Year
74	Handwritten Kannada Numerals Recognition by Using Zone Features and CNN Classifier, Vishweshwarayya Hallur, Rajendra Hegadi, Ravindra Hegadi	International Journal of Technology and Human Interaction (IJTHI), ISSN: 1548-3908, Vol. 15, No. 4, pp. 63-79 (Scopus indexed)	Oct 2019 (UGC-7662)
73	Feature Learning for Offline Handwritten Signature Verification Using Convolution Neural Network, Amruta Jagtap, Ravindra S. Hegadi	International Journal of Technology and Human Interaction (IJTHI), ISSN: 1548-3908, Vol. 15, No. 4, pp. 54-62 (Scopus indexed)	Oct 2019 (UGC-7662)
72	Variants of Term Frequency and Inverse Document Frequency of Vector Space Model for Effective Document Ranking In Information Retrieval, <i>Deepa Yogish, Manjunath T N and Ravindra Hegadi</i>	International Journal of Innovative Technology and Exploring Engineering (IJITEE), ISSN: 2278-3075, Vol. 8, No. 7, pp. 414-421 (Scopus Indexed)	2019
71	Indexing and Searching Large Scale Visual Data Using Fusion of k-means and Residual Index, <i>Kiran Phalke and Ravindra Hegadi</i>	Journal of Advanced Research in Dynamical and Control Systems, ISSN: 1943-023X, Vol. 11, No. 1, pp. 760-764 (Scopus Indexed)	2019 (UGC-26301)
70	A new hybrid GKM segmentation for detecting pathological microscopic glomerulosclerosis image of diabetic nephropathy, <i>M. Ravi and Ravindra S Hegadi</i>	Journal of International Pharmaceutical Research, ISSN: 1674-0440, Vol. 46, No. 1, pp. 633-638 (Scopus indexed)	May, 2019, (UGC-30323),
69	Automated fractured bone segmentation and labeling from CT images, <i>Darshan D. Ruikar, K.C. Santosh, and R. S. Hegadi</i>	Journal of Medical Systems (JOMS) Springer, ISSN: 0148-5598, 43: 60, https://doi.org/10.1007/s10916-019-1176-x (SCI-E and Scopus indexed)	March, 2019, IF: 2.098 (UGC-24563),
68	A review on different methods to protect big data sets, <i>M.R. Shrihari, R.A. Archana, T.N. Manjunath, Ravindra S. Hegadi</i>	Journal of Advanced Research in Dynamical and Control Systems, ISSN: 1943-023X, No. 12, pp. 282-288 (Scopus Indexed)	2018 (UGC-26301)
67	A Study on Big Data Privacy Protection Models using Data Masking Methods, <i>Archana R. A., Ravindra S. Hegadi, Manjunath T. N.</i>	International Journal of Electrical and Computer Engineering (IJECE), ISSN: 2088-8708, Vol 8, No 5, Oct. 2018, pp. 3976-3983 (Scopus indexed)	Oct, 2018 (UGC-2928)
66	Spectral Estimation of Nitrogen status in Wheat crops using Remote Sensing, <i>Archana Nandibewoor, Pavitra Kini, Akash Konnur, V.S.Hegde, Ravindra Hegadi</i>	International Journal of Safety Science (IJSS), ISSN: 2371-6312, Vol. 02, No. 02, Dec. 2018, pp. 158-167	2018
65	A Systematic Review on Orthopedic Simulators for Psycho-Motor Skill and Surgical Procedure Training, <i>Darshan D. Ruikar, Ravindra S. Hegadi, K. C. Santosh</i>	Journal of Medical Systems (JOMS) Springer, ISSN: 0148-5598, 42:168, https://doi.org/10.1007/s10916-018-1019-1 (SCI-E and Scopus indexed)	Feb, 2018, IF: 2.098 (UGC-24563)
64	Enhanced Bat Algorithm with Super-Region Volume Segmentation Workbench for Markov Random Field Images, <i>B. Basavaprasad, Ravindra S. Hegadi</i>	Journal of Computational and Theoretical Nanoscience, ISSN: 1546-1955, Vol. 15, No. 5, May 2018, pp. 1434-1440 (Scopus indexed)	IF: 2.098 (UGC-6874) 2018

63	Handwritten Kannada Numerals Recognition using Deep Learning Convolution Neural Network classifier, <i>Vishweshwarayya Hallur, Ravindra S. Hegadi</i>	International Journal of Electrical and Computer Engineering (IJECE), ISSN: 2088-8708 (Scopus indexed) (Accepted)	(UGC-2928)
62	A novel SMLR-PSO model to Estimate the Chlorophyll content in the crops using hyperspectral Satellite images, <i>Archana Nandibewoor, Ravindra S. Hegadi</i>	Cluster Computing (Springer), ISSN: 1386-7857, https://doi.org/10.1007/s10586-018-2243-7 (SCI-E and Scopus indexed)	Feb, 2018, IF: 1.601 (UGC-16014)
61	Big Data Security Architecture using Split and Merge Method, <i>Archana RA, Manjunath TN, Ravindra S Hegadi</i>	Indonesian Journal of Electrical Engineering and Computer Science, ISSN: 2502-4752, Vol. 11, No. 1, July 2018, pp. 268-274 (Scopus indexed)	July, 2018 (UGC-47077)
60	Quaternion Representation Particle Based Swarm Optimization Classifier for Handwritten Kannada Numerals Recognition, <i>Vishweshwarayya C. Hallur, R. S. Hegadi,</i>	International Journal of Emerging Technology and Advanced Engineering, ISSN: 2250-2459, Vol. 7, No. 11, pp. 272-285	Nov 2017 IF: 4.027 (UGC 44256)
59	A Fusion Technique of Image Enhancement and Segmentation using Fuzzy Rule and Graph Cut Method, <i>Basavaprasad B., Ravindra S. Hegadi</i>	Asian Journal of Information Technology, ISSN: 1993-5994, Vol. 16, No. 2, DOI: 10.3923/ajit.2017. 323.332, pp. 323-332 (Scopus indexed)	Oct, 2017
58	Estimation Of Chlorophyll Content In Crop Using Multispectral Satellite Imagery, <i>Archana Nandibewoor, Shweta Muddebihal, Ravindra Hegadi</i>	International Journal of Scientific & Technology Research, Volume 6, Issue 8, ISSN: 2277-8616, pp. 351-354	Aug, 2017 (IF: 3.023)
57	A Big Data Security using Data Masking Methods, <i>Archana RA, Ravindra S Hegadi, Manjunath TN</i>	Indonesian Journal of Electrical Engineering and Computer Science, ISSN: 2502-4752, Vol. 7, No. 2, August 2017, pp. 449-456 (Scopus indexed)	Aug, 2017 (UGC-47077)
56	Detection of Renal Cell Carcinoma-A Kidney Cancer Using K-Means Clustering Segmentation Focused on the Pathological Microscopic Images, <i>M. Ravi., Ravindra S. Hegadi</i>	Journal of Advanced Research in Dynamical and Control Systems, ISSN: 1943-023X, No. 05, pp. 144-149 (Scopus Indexed)	June, 2017 (UGC-26301)
55	A Comparative Analysis of Graph Based Techniques with Hybrid Method for Image Segmentation, <i>Basavaprasad B., Ravindra S. Hegadi</i>	Journal of Advanced Research in Dynamical and Control Systems, ISSN: 1943-023X, No. 05, pp. 135-143 (Scopus Indexed)	June, 2017 (UGC-26301)
54	Automatic Multi Stage Image Segmentation Using Normalized Cut in Gradient Image, <i>Basavaprasad B., Ravindra S. Hegadi</i>	Advances in Computational Sciences and Technology, Vol. 10, No. 1, ISSN: 0974-4738, pp. 37-51	Mar, 2017
53	Fast and Hybrid Image Segmentation Based on Level set and Normalized Graph Cut, <i>Basavaprasad B, Ravindra S Hegadi</i>	International Journal of Computer Systems, ISSN: 2394-1065, Vol. 04, No. 02, 2017, pp. 13-17.	Feb, 2017, IF: 0.317
52	Deep neural network for handwritten Marathi character recognition, <i>Parshuram M. Kamble, Ravindra S. Hegadi</i>	International Journal of Imaging and Robotics, Vol. 17, No. 1, ISSN: 2231-525X, pp. 95-107 (Scopus Indexed)	Jan, 2017 (UGC-22917)
51	Unconstrained face detection: a Deep learning and Machine learning combined	CSI Transactions on ICT, Vol. 5, No. 2, ISSN: 2277-9078, Springer, DOI: 10.1007/s40012-	Dec, 2016 (UGC-47089)

	approach, <i>Dattatray D. Sawat, Ravindra S. Hegadi</i>	016-0149-1, pp. 1-5	
50	A Survey of Intelligent Question Answering System Using NLP and Information Retrieval Techniques, <i>Deepa Yogish, Manjunath T N, Ravindra S. Hegadi</i>	International Journal of Advanced Research in Computer and Communication Engineering, Vol. 5, No. 5, ISSN: 2278-1021, DOI: 10.17148/IJARCCCE.2016.55134, pp. 536-540	May, 2016 IF: 5.332
49	A Systematic Study on Applications of Graph Theory in Image Processing With a Focus on Image Segmentation, <i>Basavaprasad B, Ravindra S. Hegadi</i>	International Journal of Scientific & Engineering Research, Vol. 7, No. 5, ISSN: 2229-5518, pp. 74-76	May, 2016 IF: 3.8
48	Defect Recognition of Fruit using Statistical Approach, <i>Chetana.K.Shetty, S.B.Kulkarni, U.P.Kulkarni, Ramesh.K, Ravindra Hegadi</i>	International Journal of Engineering Trends and Technology (IJETT), Vol. 22, No. 7, ISSN: 2231-5381, pp. 331-334, DOI: 10.14445/22315381/IJETT-V22P269.	Apr, 2015 IF: 1.795
47	Handwritten Marathi Character Recognition using R-HOG Feature, <i>Parashuram M. Kamble, Ravindra S. Hegadi</i>	ELSEVIER - Procedia Computer Science Journal (Special Issue of ICACTA-2015), ISSN: 1877-0509, Vol. 45, pp. 266-274. (Scopus indexed)	Mar, 2015 (UGC-46138)
46	Color Image Segmentation Using Adaptive GrowCut Method, <i>Basavaprasad B, Ravindra S Hegadi</i>	ELSEVIER - Procedia Computer Science Journal (Special Issue of ICACTA-2015), ISSN: 1877-0509, Vol. 45, pp. 328-335. (Scopus indexed)	Mar, 2015 (UGC-46138)
45	Skew Detection and Correction of Devanagari Script Using Hough Transform, <i>Trupti Jundale, Ravindra Hegadi</i>	ELSEVIER - Procedia Computer Science Journal (Special Issue of ICACTA-2015), ISSN: 1877-0509, Vol. 45, pp. 305-311. (Scopus indexed)	Mar, 2015 (UGC-46138)
44	A Predictive Model Construction for Mulberry Crop Productivity, <i>Ramya M.C., Lokesh V, Manjunath T.N, Ravindra S Hegadi</i>	ELSEVIER - Procedia Computer Science Journal (Special Issue of ICACTA-2015), ISSN: 1877-0509, Vol. 45, pp. 156-165. (Scopus indexed)	Mar, 2015 (UGC-46138)
43	Remote Monitoring of Maize Crop through Satellite Multispectral Imagery, <i>Archana Nandibewoor, Saleem Hebbal, Ravindra Hegadi</i>	ELSEVIER - Procedia Computer Science Journal (Special Issue of ICACTA-2015), ISSN: 1877-0509, Vol. 45, pp. 344-353. (Scopus indexed)	Mar, 2015 (UGC-46138)
42	Detection of Glomerulosclerosis in Diabetic Nephropathy Using Contour-Based Segmentation, <i>Ravi M, Ravindra Hegadi</i>	ELSEVIER - Procedia Computer Science Journal (Special Issue of ICACTA-2015), ISSN: 1877-0509, Vol. 45, pp. 244-249. (Scopus indexed)	Mar, 2015(UGC-46138)
41	Object Tracking Using Visual Words, <i>Kiran Phalke, Ravindra Hegadi</i>	International Journal of Applied Engineering Research (IJAER), Print ISSN 0973-4562, Online ISSN 1087-1090, Vol. 9, No. 20, pp. 4545-4548.	Jan, 2015 (UGC- 64529)
40	A Graph Theoretical Network Model on Human Heart, <i>Basavaprasad B., Ravindra S. Hegadi</i>	International Journal of Applied Engineering Research (IJAER), Print ISSN 0973-4562, Online ISSN 1087-1090, Vol. 9, No. 20, pp. 4549-4553.	Jan, 2015 (UGC- 64529)
39	GLCM based Multiclass Iris Recognition using FKNN and KNN, <i>S. B. Kulkarni, R. B. Kulkarni, U. P. Kulkarni, Ravindra S.</i>	International Journal of Image and Graphics, Vol. 14, No. 3, ISSN: 0219 – 4678, World Scientific Publishing Company, DOI: 10.1142/	Aug, 2014 (UGC-46333)

	Hegadi	S0219467814500107, pp. 450010-1 - 1450010-27	
38	High Density Traffic Management using Image background subtraction Algorithm, <i>Somashekhar. G.C, Sarala Shirabadagi, Ravindra S. Hegadi</i>	International Journal of Computer Applications, ISSN: 0975 – 8887, NCRAIT, No. 4, pp. 10 - 15.	Feb, 2014, IF: 0.814
37	Classification of Offline Handwritten Signatures using Wavelets and a Pattern Recognition Neural Network, <i>Poornima G Patil, Ravindra S Hegadi</i>	International Journal of Computer Applications, ISSN: 0975 – 8887, NCRAIT, No. 4, pp. 5 - 9.	Feb, 2014, IF: 0.814
36	A Survey on Traditional and Graph Theoretical Techniques for Image Segmentation, <i>Basavaprasad B., Ravindra S. Hegadi</i>	International Journal of Computer Applications, ISSN: 0975 – 8887, NCRAIT, No. 1, pp. 38 - 46.	Feb, 2014, IF: 0.814
35	Improved GrabCut Technique for Segmentation of Color Image, <i>Basavaprasad B., Ravindra S. Hegadi</i>	International Journal of Computer Applications, ISSN: 0975 – 8887, NCRAIT, No. 1, pp. 5 - 8.	Feb, 2014, IF: 0.814
34	Applications of Data Masking Techniques for Data Security, <i>Archana R A, Ravindra S. Hegadi</i>	International Journal of Research in Computer Science and Information Technology, ISSN: 2319-5010, Vol. 2, No. 2, pp. 154 - 159.	Feb, 2014 (UGC-48142)
33	Printed Marathi Character Recognition using Correlation Coefficient, <i>K. Y. Dhulam, S. N. Soma, R. S. Hegadi</i>	International Journal of Research in Computer Science and Information Technology, ISSN: 2319-5010, Vol. 2, No. 2, pp. 149 - 153.	Feb, 2014 (UGC-48142)
32	Detection of Uncertainty of Attacks in Intrusion Detection using Data Mining Technique, <i>Alok Ranjan, Ravindra S. Hegadi, Prasanna Kumara</i>	International Journal of Research in Computer Science and Information Technology, ISSN: ` , Vol. 2, No. 2, pp. 94 - 98.	Feb, 2014 (UGC-48142)
31	Statistical Data Quality Model for Data Migration Business Enterprise, <i>T. N. Manjunath, Ravindra S Hegadi</i>	International Journal of Soft Computing, Medwell Journals, ISSN: 1816-9503, Vol. 8, No. 5, pp. 340 - 351.	2013
30	Analysis of Iris Recognition using Normalized and Un-normalized Iris Images, <i>Shrinivas Rao B Kulkarni, Umakant P Kulkarni, Ravindra S Hegadi</i>	International Journal of Information Processing, ISSN: 0973-8215, Vol. 7, No. 3, pp. 26 - 33.	2013 (UGC-22945)
29	Iris Data Encryption based on Aztec Symbolology, <i>Shrinivas Rao B Kulkarni, Ravindra S Hegadi, Umakant P Kulkarni</i>	Evolving Systems (Springer-Verlag), ISSN: 1868-6478, DOI: 10.1007/s12530-013-9075-8, Vol. 4, No. 3, pp. 203-217 (Scopus indexed)	Sept, 2013 IF: 0.86 (UGC-29043)
28	Offline Handwritten Signatures Classification Using Wavelets and Support Vector Machines, <i>Poornima G Patil, Ravindra S Hegadi</i>	International Journal of Engineering Science and Innovative Technology (IJESIT), ISSN: 2319-5967, Vol. 2, No. 4, pp. 573 - 578.	July, 2013
27	Offline Handwritten Signatures Classification Using Wavelet Packets and Level Similarity Based Scoring, <i>Poornima G Patil, Ravindra S Hegadi</i>	International Journal of Engineering and Technology, ISSN: 0975-4024, Vol. 5, No. 1, pp. 421-426. (Scopus indexed)	Feb-Mar, 2013
26	Data Quality Assessment Model for Data Migration Business Enterprise, <i>Manjunath T. N., Ravindra S Hegadi</i>	International Journal of Engineering and Technology, ISSN: 0975-4024, Vol. 5, No. 1, pp. 101-109. (Scopus indexed)	Feb-Mar, 2013
25	Find and Place Sorting Technique for Unique	International Journal of Computer	Oct, 2012, IF:

	Numbers, <i>Vishweshwarayya C Hallur, Ravindra S Hegadi, S. P. Sajjan</i>	Applications, Vol. 53, No. 16, ISSN: 0975 – 8887, pp. 6-8.	0.835
24	Realistic Analysis of Data Warehousing and Data Mining Application in Education Domain, <i>TN Manjunath, RS Hegadi, IM Umesh, GK Ravikumar</i>	International Journal of Machine Learning and Computing, Vol. 2, No. 4, ISSN: 2010-3700, pp. 419 - 422	Aug, 2012 (UGC-48748)
23	A case Study on Regression Test Automation for Data Warehouse Quality Assurance, <i>Manjunath T. N., Ravindra S. Hegadi, Yogish H. K., Archana R. A., Umesh I. M.</i>	International Journal of Information Technology and Knowledge Management, Vol. 5, No. 2, ISSN: 0973-4414, pp. 239-243.	July-Dec, 2012, IF: 0.48 (UGC-48950)
22	Wavelet Based Approach for Off Line Handwritten Signatures Verification, <i>Poornima G. Patil and Ravindra Hegadi</i>	CiiT International Journal of Biometrics and Bioinformatics, Vol. 4, No. 4, ISSN: 0974 – 9675, pp. 152-155.	Mar, 2012 IF: 0.361
21	Emerging Trends in Data Mining for Intrusion Detection, <i>Alok Ranjan, Ravindra S. Hegadi, Prasanna Kumara</i>	International Journal of Advanced Research in Computer Science (IJRCS), Vol. 3, No. 2, ISSN: 0976-5697, pp. 279-281.	Mar-Apr, 2012 IF: 3.727(UGC-2503)
20	A Study on Sampling Techniques for Data Testing, <i>Manjunath T N, Ravindra S Hegadi and Archana R A</i>	International Journal of Computer Science and Communication (IJCS), Vol. 3, No. 1, ISSN: 0973-7391, pp. 13-16.	Mar, 2012, IF: 4.1 (UGC-48710)
19	Interactive Segmentation of Medical images Using Grabcut, <i>Ravindra S Hegadi, Basavaraj A. Goudannavar</i>	International Journal of Machine Intelligence, ISSN: 0975–2927 & E-ISSN: 0975–9166, Vol. 3, No. 3, pp. 168-171.	Nov, 2011
18	Automated Data Validation for Data Migration Security, <i>Manjunath T N, Ravindra S Hegadi, Mohan H S</i>	International Journal of Computer Applications (IJCA), Vol. 30, No. 6, ISSN: 0975–8887, pp. 41-46.	Sept, 2011, IF: 0.835
17	Experimental Study of Various Data Masking Techniques with Random Replacement using data volume, <i>Ravikumar G K, B. Justus Rabi, Ravindra S. Hegadi, Manjunath T.N, Archana R A</i>	International Journal of Computer Science and Information Security (IJCSIS), Vol. 9, No. 8, ISSN: 1947-5500, pp. 154-158.	Aug, 2011, IF: 0.47
16	Page Disabling using DHTML masking for Data Testing, <i>Ravikumar G K, Dr. B. Justus Rabi, Manjunath T.N, Ravindra S Hegadi, Archana R A</i>	International Journal of Computer Science and Information Technologies (IJCSIT), Vol. 2, No. 4, ISSN: 0975-9646, pp. 1655-1658.	June, 2011 IF: 5.15
15	Design of Data Masking Architecture and Analysis of Data Masking Techniques for Testing, <i>Ravikumar G K, B. Justus Rabi, Manjunath T. N, Ravindra S. Hegadi, Archana.R. A.</i>	International Journal of Engineering Science and Technology (IJEST), Vol. 3 No. 6, ISSN : 0975-5462, pp. 5150 - 5159.	June, 2011 (UGC-2977)
14	A study on design and analysis of web mart mining and its relevance today, <i>Ravikumar G K, Manjunath T N, Ravindra S Hegadi, Archana R. A.</i>	International Journal of Engineering Science and Technology (IJEST), Vol. 3, No. 4, ISSN: 0975-5462, pp. 3141-3152.	April, 2011 (UGC-2977)
13	Design and Analysis of DWH and BI in Education Domain, <i>Manjunath T N, Ravindra S Hegadi, Umesh I M, Ravikumar G K</i>	International Journal of Computer Science Issues (IJCSI), Vol. 8, No. 2, ISSN: 1694-0814, pp. 545-551.	Mar, 2011, IF: 0.242
12	A Survey on Recent Trends, Process and	International Journal of Computer Science	Mar, 2011, IF:

	Development in Data Masking for Testing, <i>Ravikumar G K, Manjunath T N, Ravindra S Hegadi, Umesh I M</i>	Issues (IJCSI), Vol. 8, No. 2, ISSN: 1694-0814, pp. 535-544.	0.242
11	Cross Industry Survey on Data mining Applications, <i>Ravikumar G K, Manjunath T. N, Ravindra S. Hegadi, Umesh I.M</i>	International Journal of Computer Science and Information Technologies (IJCSIT), Vol. 2 No. 2, ISSN: 0975-9646, pp. 624-628.	Mar-Apr 2011 IF:5.15
10	Analysis of Data Quality Aspects in Data Warehouse Systems, <i>Manjunath T.N, Ravindra S Hegadi, Ravikumar G K</i>	International Journal of Computer Science and Information Technologies, Vol. 2, No. 1, ISSN: 0975-9646, pp. 477-485.	Jan-Feb, 2011 IF:5.15
9	Segmentation of tumors from endoscopic images using topological derivatives based on continuous approach, <i>Ravindra S. Hegadi</i>	International Journal on Recent Trends in Engineering and Technology (IJRTET), ISSN: 2158-5563, Vol. 4, No. 1, pp. 76-79, Academy Publishers, Finland.	Nov, 2010 (UGC-48133)
8	A Survey on Multimedia Data Mining and Its Relevance Today, <i>Manjunath T.N, Ravindra S Hegadi, Ravikumar G K</i>	International Journal of Computer Science and Network Security, Vol.10, No.11, ISSN : 1738-7906, November 2010, pp. 165-170.	Nov, 2010
7	Identification of abnormality from Endoscopic Color Images using Normalized cuts, <i>Ravindra S. Hegadi</i>	Australian Journal of Intelligent Information Processing Systems, Vol. 12, No. 4, ISSN: 1321-2133, pp. 46-50.	Nov, 2010
6	A Survey on Deformable Model and its Applications to Medical Imaging, <i>Ravindra Hegadi, Arpana Kopp, Mallikarjun Hangarge</i>	International Journal of Computer Application, No. 2, ISSN: 0975-8887, pp. 64-75, Foundation of Computer Science, USA.	2010 IF: 0.835
5	Segmentation of Abnormal Region from Endoscopic Images using Intelligent Scissors, <i>Ravindra S. Hegadi, Shailaja S. Halli, Arpana Kop</i>	International Journal of Computer Application, No. 2, ISSN: 0975-8887, pp. 89-96, Foundation of Computer Science, USA.	2010 IF: 0.835
4	Kidney segmentation from ultrasound images using gradient vector force, <i>Arpana M. Kop, Ravindra S. Hegadi</i>	International Journal of Computer Application, No. 2, ISSN: 0975-8887, pp. 104-109, Foundation of Computer Science, USA.	2010 IF: 0.835
3	Multi-font English Character Recognition based on Modified Invariant Moments, <i>Dhandra B.V., Malemath V.S., Mallikarjun H., Hegadi Ravindra</i>	Journal of Combinatorial Mathematics and Combinatorial Computing, Vol. 67, ISSN: 0835-3026, pp. 153-162. (Scopus indexed)	2008 (UGC-22041)
2	Active contours without edges and Curvature Analysis for Endoscopic image classification, <i>B.V.Dhandra, Ravindra Hegadi</i>	International Journal of Computer Science and Security (IJCSS), Vol. 1, No. 1, ISSN: 1985-1553, pp. 19-32, CSC Journals, Kuala Lumpur, Malaysia	June, 2007
1	Abnormality Detection in Endoscopic Images Using HSI Segmentation and Curvature Computation, <i>B.V.Dhandra, Ravindra Hegadi</i>	GESTS International Transaction on Computer Science and Engineering, Vol. 9, No. 1, ISSN: 1738-6438, pp. 159-169.	2004

International Conferences

Sl. No.	Title of the Paper, Authors	Title of the Conference	Month / Year	Publisher
57	Multiwavelet and connected pixel based feature for handwritten Marathi characters, Ravindra S. Hegadi , Parshuram M. Kamble, Anil S. Sherikar, and B. V. Dhandra	3rd International Conference on Emerging Technologies: Micro to Nano (ETMN-2017), Solapur, India, 6–7 October 2017, doi: 10.1063/1.5047728, ISBN: 978-0-7354-1705-2, pp. 030010-1 to 030010-8	July, 2018	American Institute of Physics
56	Quantification of Synovial Cavity from Knee X-ray Images, Ravindra S. Hegadi , Dattatray Ishwar Navale	International Conference on Energy, Communication, Data Analytics and Soft Computing (ICECDS), Tamil Nadu, India, 1-2, August, 2017, DOI: 10.1109/ICECDS.2017.8389736, ISBN: 978-1-5386-1887-5, pp. 1688 - 1691	Aug, 2017	IEEE
55	Identification and Classification of Multilingual Document Using Maximized Mutual Information, Manjula S., Ravindra S. Hegadi	International Conference on Energy, Communication, Data Analytics and Soft Computing (ICECDS), Tamil Nadu, India, 1-2, August, 2017, DOI: 10.1109/ICECDS.2017.8389734, ISBN: 978-1-5386-1887-5, pp. 1679-1682	Aug, 2017	IEEE
54	Graph Theory and Its Application to Image Segmentation, Basavaprasad B., Ravindra S. Hegadi	International Conference on Energy, Communication, Data Analytics and Soft Computing (ICECDS), Tamil Nadu, India, 1-2, August, 2017, DOI: 10.1109/ICECDS.2017.8389737, ISBN: 978-1-5386-1887-5, pp. 1692-1694	Aug, 2017	IEEE
53	Survey on Trends and Methods of an Intelligent Answering System, Deepa Yogish, Manjunath T N, Ravindra S. Hegadi ,	International Conference On Electronics, Communication, Computer Technologies and Optimization Techniques (ICECCOT-2017), Mysore, India, 15 - 16 December 2017, ISBN: 978-1-5386-2361-9, pp. 346-353.	Dec, 2017	IEEE
52	A Review on Multilingual Document Analysis in Indian Context, Manjula S., Ravindra Hegadi	2nd International Conference on Applied and Theoretical Computing and Communication Technology (iCATccT), 21-23, July, 2016, Bangalore, India, DIO: 10.1109/ICATCCT.2016.7912054, ISBN: 978-1-5090-2399-8, pp. 519-522.	Apr, 2017	IEEE
51	Recognition of Oriya and English languages based on LBP features, S. Manjula, Ravindra S. Hegadi	Second International Conference on Electrical, Computer and Communication Technologies (ICECCT), 22-24 Feb. 2017, Coimbatore, India, DOI: 10.1109/ICECCT.2017.8117811, ISBN No.: 978-1-5090-3239-6, pp. 1-3.	Feb, 2017	IEEE
50	E-solution for Next Line of Business and Education using Cloud Computing, Satish S., Manjunath T. N., Ravindra Hegadi	2016 World Congress on Computing and Communication Technologies, Trichy, India, 7-9 December 2016, DIO: 10.1109/WCCCT.2016.33, ISBN: 978-1-5090-5573-9/16, pp. 105-110.	Feb, 2017	IEEE
49	Offline Handwritten Signature Recognition Based on Upper and Lower Envelope Using Eigen Values, Amruta B. Jagtap, Ravindra S. Hegadi	2016 World Congress on Computing and Communication Technologies, Trichy, India, 7-9 December 2016, DIO: 10.1109/WCCCT.2016.62, ISBN: 978-1-5090-5573-9/16, pp. 223-226.	Feb, 2017	IEEE

48	Geometrical features extraction and KNN based Classification of Handwritten Marathi characters, <i>Parshuram M. Kamble, Ravindra S. Hegadi</i>	2016 World Congress on Computing and Communication Technologies, Trichy, India, 7-9 December 2016, DIO: 10.1109/WCCCT.2016.61, ISBN: 978-1-5090-5573-9/16, pp. 219-222.	Feb, 2017	IEEE
47	Object Tracking using Multiple Hypothesis, <i>Kiran Phalke, Ravindra Hegadi</i>	3rd International Conference on Signal Processing and Integrated Networks (SPIN), Noida, India, 11-12 February, 2016, DIO: 10.1109/SPIN.2016.7566789, ISBN: 978-1-4673-9197-9, pp. 707-710.	Feb, 2016	IEEE
46	A Novel Data Security Framework using E-MOD for Big Data, <i>Achana R. A., Ravindra S. Hegadi, Manjunath T. N.</i>	2015 IEEE International WIE Conference on Electrical and Computer Engineering (WIECON-ECE), BUET, Dhaka, Bangladesh, 19-20, December, 2015, ISBN: 978-1-4673-8786-6, pp. 546-551.	Dec, 2015	IEEE
45	Block Based Texture Analysis Approach For Knee Osteoarthritis Identification Using SVM, <i>Dattatray Ishwar Navale, Ravindra S. Hegadi, Namrata Mendgudli</i>	2015 IEEE International WIE Conference on Electrical and Computer Engineering (WIECON-ECE), BUET, Dhaka, Bangladesh, 19-20, December, ISBN: 978-1-4673-8786-6, pp. 337-341.	Dec, 2015	IEEE
44	Skew Detection of Devanagari Script Using Pixels of Axes-Parallel Rectangle and Linear Regression, <i>Trupti Jundale, Ravindra S. Hegadi</i>	2015 International Conference on Energy Systems and Applications (ICESA), Pune, India, 30 Oct to 1 Nov, 2015, DOI: 10.1109/ICESA.2015.7503396, SBN: 978-1-4673-6817-9, pp. 480 - 484.	Oct-Nov, 2015	IEEE
43	Survey on various Improved Feature Extraction and Classification Techniques on Handwritten Marathi Character Recognition, <i>Parshuram M. Kamble, Ravindra S. Hegadi</i>	IJCA Proceedings on National Conference on Knowledge, Innovation in Technology and Engineering (NCKITE 2015) NCKITE 2015, 10-11, April 2015, ISSN: 0975 – 8887, No. 3, pp. 37-40.	Jul, 2015	Foundation of Computer Science, New York, USA
42	Segmentation and Analysis of Fibroid from Ultrasound Images, <i>Shivakumar K. Harlapur, Ravindra S. Hegadi</i>	IJCA Proceedings on National Conference on Knowledge, Innovation in Technology and Engineering (NCKITE 2015) NCKITE 2015, 10-11, April 2015, ISSN: 0975 – 8887, No. 1, pp. 45-48.	Jul, 2015	Foundation of Computer Science, New York, USA
41	Research Survey on Skew Detection of Devanagari Script, <i>Trupti Jundale, Ravindra S. Hegadi</i>	IJCA Proceedings on National Conference on Knowledge, Innovation in Technology and Engineering (NCKITE 2015) NCKITE 2015, 10-11, April 2015, ISSN: 0975 – 8887, No. 1, pp. 41-44.	Jul, 2015	Foundation of Computer Science, New York, USA
40	Kannada Handwritten Digits Recognition: Neural Network Approach, <i>Visvesverayya C. Hallur, Ravindra S. Hegadi</i>	IJSR Proceedings on National Conference on Knowledge, Innovation in Technology and Engineering (NCKITE), 10-11 April 2015, ISSN: 2319-7064, pp. 417-419.	Apr, 2015	
39	Pixel based Object Tracking, <i>Kiran</i>	2nd International Conference on Signal Processing	Feb,	IEEE

	<i>Phalke, Ravindra S. Hegadi</i>	and Integrated Networks (SPIN 2015), 19-20, February, 2015, Noida, UP, ISBN: 978-1-4799-5990-7, pp. 575-578.	2015	
38	Identification of Vegetation from Satellite Derived Hyper Spectral Indices, <i>Archana Nandibewoor, Ravindra Hegadi, Prashanth Adiver</i>	International Conference on Contemporary Computing and Informatics (IC3I 2014), 27-29, November, 2014, Mysore, India, ISBN: 978-1-4799-6629-5, pp. 1215-1219.	Nov, 2014	IEEE
37	A Study on Developing Analytical Model for Groundnut Pest Management using Data Mining Techniques, <i>Divya M, Manjunath T. N., Ravindra S. Hegadi</i>	Sixth International Conference on Computational intelligence and Communication Networks (ICCICN 2014), 14-16, Nov, 2014, Kolkata, India, ISBN: 978-1-4799-6929-6, pp. 691-696.	Nov, 2014	IEEE Computer Society
36	Handwritten Marathi basic character Recognition using Statistical Method, <i>P. M. Kamble, Ravindra S. Hegadi</i>	International Conference on Emerging Research in Computing, Information, Communication and Applications (ERCICA-14), 1-2, August, 2014, Bangalore, ISBN: 978-9-3510-7263-8, Vol. 3, pp. 28-33.	Aug, 2014	Elsevier Publications
35	Offline Kannada Handwritten Numeral Recognition: Holistic Approach, <i>Vishweshwarayya C. Hallur, R.S.Hegadi</i>	International Conference on Emerging Research in Computing, Information, Communication and Applications (ERCICA-14), 1-2, August, 2014, Bangalore, ISBN: 978-9-3510-7260-7, Vol. 1, pp. 632-637.	Aug, 2014	Elsevier Publications
34	Recognition of Marathi Handwritten Numerals using Multi-layer Feed-Forward Neural Network, <i>Ravindra S. Hegadi, P. M. Kamble</i>	World Congress on Computing and Communication Technologies (WCCCT'14), 24-February to 1-March, 2014, Tiruchirappalli, Tamilnadu, ISBN: 978-1-4799-2876-7, pp. 21-24.	Feb, 2014	IEEE Computer Society
33	Iris Recognition using Fusion of Gray level Co-occurrence Matrix and Gray level Run Length Matrix, <i>Kulkarni S. B., Shweta Shirodkar, Hegadi R. S., Kulkarni U. P.</i>	International Conference on Signal and Information Processing (ICSIP-2013), 9-11, August, 2013, Bangalore, ISBN: 978-93-5107-106-8, pp. 241-246.	Aug, 2013	Elsevier Publications
32	Computer Based Diagnosis of Glaucoma using Digital Fundus Images, <i>Archana Nandibewoor, S B Kulkarni, Sridevi Byahatti, Ravindra Hegadi</i>	World Congress on Engineering (WCE 2013), 3-5, July, 2013, London, U.K., ISBN: 978-988-19252-9-9, Vol. 3, pp. 2206 - 2208.	July, 2013	International Association of Engineers
31	Bilateral Smoothing of Gradient Vector Flow Field and Application to Image Segmentation, <i>Ravindra S. Hegadi, Adithya Kumar Pediredla, Chandra Sekhar Seelamantula</i>	2012 IEEE International Conference on Image Processing (ICIP-2012), 30-September to 3-October, 2012, Orlando, Florida, United States, ISBN: 978-1-4673-2533-2, pp. 317-320.	Sep-Oct, 2012	IEEE Signal Processing Society
30	Recognition of printed Kannada numerals based on zoning method, <i>Ravindra S. Hegadi</i>	IJCA Proceedings on National Conference on Recent Trends in Computing and Communications (NCACC 2012), 27-28, April, 2012, ISBN: 0975 – 8878, No: 1, pp. 05-08.	Aug, 2012	Foundation of Computer Science, New

				York, USA
29	Humerus Radiograph Image Segmentation using Normalized Cut, <i>Basavaraj A Goudannavar, Ravindra S Hegadi, Neelangouda Patil</i>	IJCA Proceedings on National Conference on Recent Trends in Computing (NCRTC-2012), 7-8, April, 2012, Nanded, India, Vol. 2, pp. 22-24	May, 2012	Foundatio n of Computer Science, New York, USA
28	Template matching approach for Handwritten Kannada Numeral Recognition, <i>Vishweshwarayya C Hallur, Ravindra S Hegadi</i>	IJCA Proceedings on National Conference on Recent Trends in Computing (NCRTC-2012), 7-8, April, 2012, Nanded, India, Vol. 3, pp. 11-12.	May, 2012	Foundatio n of Computer Science, New York, USA
27	A Novel Approach for Iris Encryption, <i>Shrinivasrao Kulkarni, Ravindra Hegadi and Umakant Kulkarni</i>	IJCA Proceedings on International Conference on Emerging Trends in Technology (ICWET-2012), 24-25, February, 2012, Mumbai, India, No. 5, ISSN: 0975-8887:12-19.	2012	Foundatio n of Computer Science, New York, USA
26	Performance Evaluation and Extraction Framework for Unstructured Text Information, <i>Raghavendra Rao B., Ravindra Hegadi, Vinita K Tapaskar and Srividhya Ganesa</i>	International Conference on Computational Techniques and Artificial Intelligence (ICCTAI'2012), 11-12, February, 2012, Penang, Malaysia, ISBN: 978-81-922428-5-9, pp. 313-317.	Feb, 2012	
25	Automatic Traffic Sign Recognition, <i>Ravindra S. Hegadi</i>	<i>Second International Conference on "Communication, Computation, Management & Nanotechnology" (ICN-2011), 23-25, September, 2011, Bhalki, India, ISBN: 978-81-921740-0-6.</i>	Sept, 2011	
24	Image Compression using Wavelet Transforms, <i>Ravindra S. Hegadi, Baslingappa S. Pattanshetty</i>	<i>Second International Conference on "Communication, Computation, Management & Nanotechnology" (ICN-2011), 23-25, September, 2011, Bhalki, India, ISBN: 978-81-921740-0-6.</i>	Sept, 2011	
23	Printed Kannada Numeral Recognition Using Template Matching, <i>Ravindra S. Hegadi, Mukta K. Sangolli</i>	<i>Second International Conference on "Communication, Computation, Management & Nanotechnology" (ICN-2011), 23-25, September, 2011, Bhalki, India, ISBN: 978-81-921740-0-6.</i>	Sept, 2011	
22	Segmentation of Google Map Images Based on Color Features, <i>Ravindra S, Hegadi, Rajeshwari K. Sangolli</i>	<i>Second International Conference on "Communication, Computation, Management & Nanotechnology" (ICN-2011), 23-25, September, 2011, Bhalki, India, ISBN: 978-81-921740-0-6.</i>	Sept, 2011	
21	Tumor Segmentation from Endoscopic Images using GrowCut method, <i>Ravindra S. Hegadi, Basavaraj A. Goudannavar</i>	<i>Second International Conference on "Communication, Computation, Management & Nanotechnology" (ICN-2011), 23-25, September, 2011, Bhalki, India, ISBN: 978-81-921740-0-6.</i>	Sept, 2011	

20	Improvement to Libor Masek Algorithm of Template Matching Method for Iris Recognition, <i>S. B. Kulkarni, R S Hegadi, U P Kulkarni</i>	<i>International Conference and Workshop on Emerging Trends in Technology (ICWET-2011) – TCET, 25-26, February, 2011, Mumbai, India, ISBN: 978-1-4503-0449-8, pp. 1270-1274.</i>	Feb, 2011	ACM
19	Segmentation of tumors from endoscopic images using topological derivatives based on discrete approach, <i>Ravindra Hegadi</i>	<i>International Conference on Signal and Image Processing 2010 (ICSIP-2010), 15-17, December, 2010, Chennai, India, ISBN: 978-1-4244-8594-9, pp. 54-58.</i>	Dec, 2010	IEEE Consumer Electronic Society
18	Identification of abnormality from Endoscopic Color Images using Normalized cuts, <i>Ravindra S. Hegadi</i>	<i>International Conference on Neural Information Processing (ICONIP-2010), 22-25, November, 2010, Sydney, Australia,</i>	Nov, 2010	
17	A Survey on Deformable model and its latest Extensions, <i>Ravindra Hegadi</i>	<i>International Conference on Electronic Design and Signal Processing (ICEDSP-2009), 10-12, December, 2009, Manipal, India.</i>	Dec, 2009	Amrutha Viswa Vidyapeetham
16	Tumor Segmentation from Endoscopic Color Images based on Normalized cuts, <i>Ravindra Hegadi</i>	<i>International Conference on Electronic Design and Signal Processing (ICEDSP-2009), 10-12, December, 2009. Manipal, India.</i>	Dec, 2009	IKI Publishing House
15	Detection of Abnormality in Endoscopic Images using Watershed Segmentation based Techniques, <i>B. V. Dhandra, Ravindra S. Hegadi</i>	<i>International Conference on Cognition and Recognition, (ICCR-2008), 10-12, April, 2008, Mysore, India, ISBN: 81-7764-952-3, pp. 486-492.</i>	Apr, 2008	SCITECH publishers
14	Endoscopic image classification based on active contours without edges and Curvature Analysis, <i>B. V. Dhandra, Ravindra S. Hegadi</i>	<i>International Symposium on Data, Information and Knowledge Spectrum, (ISDIKS-2007), 13-15, December, 2007, Cochin, India, pp.86-90.</i>	Dec, 2007	
13	Segmentation of Tumor images using Graph Cut based Active Contours, <i>B. V. Dhandra, Ravindra S. Hegadi</i>	<i>IEEE International Conference on Advances in Computer Vision and Information Technology (ACVIT-2007), 28-30, November, 2007, Aurangabad, India, ISBN: 978-81-89866-74-7, pp. 923-931.</i>	Nov, 2007	Macmillan India Publishers
12	Multi-font English Character Recognition based on Modified Invariant Moments, <i>B. V. Dhandra, V. S. Malemath, Mallikarjun H., Ravindra Hegadi</i>	<i>International Conference on Mathematics and Computer Science(ICMCS-2007), 1-3, March, 2007, Chennai, India, pp. 363-366.</i>	Nov, 2007	
11	Word Level Script Identification in Bilingual Documents through Discriminating Features, <i>B. V. Dhandra, M Hangrge, V. S. Malemath, Ravindra Hegadi</i>	<i>IEEE - International Conference on Signal Processing, Communications and Networking (ICSCN-2007), Chennai, India. Feb. 22-24, 2007, ISBN: 1-4244-0997-7, pp. 630 - 635.</i>	Feb, 2007	IEEE Engineering Management Society
10	Handwritten Script Identification based on Fuzzy K-Nearest Neighbour, <i>B. V. Dhandra,</i>	<i>IEEE International Conference on Signal and Image Processing (ICSIP-2006), 7-9, December, 2006, Hubli, India, ISBN: 978-0230-63003-1, pp. 587-591.</i>	Dec, 2006	

	<i>Mallikarjun Hangarge, Ravindra Hegadi, V.S.Malemath</i>			
9	Endoscopic image classification based on active contours without edges, <i>B.V.Dhandra, Ravindra Hegadi, Mallikarjun Hangarge, V. S. Malemath</i>	<i>1st International Conference on Digital Information Management (ICDIM-2006)</i> , 6-8, December, 2006, Bangalore, India, ISBN: 1-4244-0682-X, pp. 167-172.	Dec, 2006	IEEE Computer Society
8	Multi-font Numeral Recognition without Thinning based on Directional Density of Pixels, <i>B. V. Dhandra, V. S. Malemath, Mallikarjun H., Ravindra Hegadi</i>	<i>1st International Conference on Digital Information Management (ICDIM-2006)</i> , December 06-08, 2006, Bangalore, India, ISBN: 1-4244-0682-X, pp. 157-160	Dec, 2006	IEEE Computer Society
7	Word-wise Script Identification from Bilingual Documents based on Morphological Reconstruction, <i>B.V.Dhandra, H.Mallikarjun, Ravindra Hegadi, V.S.Malemath</i>	<i>1st International Conference on Digital Information Management (ICDIM-2006)</i> , December 06-08, 2006, Bangalore, India, ISBN: 1-4244-0682-X. pp. 289-294	Dec, 2006	IEEE Computer Society
6	Word-wise Script Identification Based on Morphological Reconstruction in Printed Bilingual Documents, <i>B.V.Dhandra, H.Mallikarjun, Ravindra Hegadi, V.S.Malemath</i>	<i>IET International Conference on Visual Information Engineering, VIE 2006</i> , 26-28, September, 2006, Bangalore, India. ISBN: 978-0769-53041-3, 978-0863-41671-2, pp. 389-393.	Sept, 2006	IET
5	Analysis of Abnormality in Endoscopic images using Combined HSI Color Space and Watershed Segmentation, <i>B.V.Dhandra, Ravindra Hegadi, Mallikarjun Hangarge, V. S. Malemath</i>	<i>18th International Conference on Pattern Recognition (ICPR-2006)</i> , 21-24, August, 2006, Hong Kong. ISBN: 0-7695-2521-0, pp.695-698	Aug, 2006	IEEE Computer Society
4	Script Identification Based on Morphological Reconstruction in Document Images, <i>B.V.Dhandra, P. Nagabhushan, Mallikarjun Hangarge, Ravindra Hegadi, V.S. Malemath</i>	<i>18th International Conference on Pattern Recognition (ICPR-2006)</i> , 21-24, August, 2006, Hong Kong, ISBN: 0-7695-2521-0, ISSN: 1051-4651, pp. 950-953.	Aug, 2006	IEEE Computer Society
3	Skew Detection in Binary Image Documents Based on Image Dilation and Region labelling Approach, <i>B. V. Dhandra, V. S. Malemath, Mallikarjun H., Ravindra Hegadi</i>	<i>18th International Conference on Pattern Recognition (ICPR-2006)</i> , 21-24, August, 2006, Hong Kong, ISBN: 0-7695-2521-0, ISSN: 1051-4651, pp. 954-957.	Aug, 2006	IEEE Computer Society
2	Classification of Abnormal Endoscopic Images using Morphological Watershed Segmentation, <i>B.V.Dhandra, Ravindra Hegadi</i>	<i>International Conference on Cognition and Recognition, (ICCR-2005)</i> , 22-23, December, 2005, Mysore, India, ISBN: 81-7764-952-3, pp. 695-700.	Dec, 2005	Allied Publishers Pvt. Ltd
1	Classification of Abnormal Endoscopic Images Using RGB Color and Morphological Watershed Segmentation, <i>B.V.Dhandra, Ravindra Hegadi</i>	<i>Thirteenth International Conference on Advanced Computing and Communications, (ADCOM-2005)</i> , 14-17, December, 2005, Coimbatore, India, ISBN: 81-8424-109-7, pp.20-23.	Dec, 2005	Allied Publishers Pvt. Ltd

Books

Sl No.	Title of the book	Authors	Publisher with ISSN Number	Year
5	Recent Trends in image processing and pattern recognition Part - 1	K. C. Santosh, Ravindra S. Hegadi (Eds.)	Communication in Computer and Information Science, Springer Nature, Springer Pvt. Ltd., Germany, ISBN No: 978-981-13-9180-4	Jul, 2019
4	Recent Trends in image processing and pattern recognition Part - 2	K. C. Santosh, Ravindra S. Hegadi (Eds.)	Communication in Computer and Information Science, Springer Nature, Springer Pvt. Ltd., Germany, ISBN No: 978-981-13-9183-5	Jul, 2019
3	Recent Trends in image processing and pattern recognition Part - 3	K. C. Santosh, Ravindra S. Hegadi (Eds.)	Communication in Computer and Information Science, Springer Nature, Springer Pvt. Ltd., Germany, ISBN No: 978-981-13-9186-6	Jul, 2019
2	Medical image analysis	Ravindra Hegadi, B. V. Dhandra	Lambert Academic Publishing, Germany, ISBN No: 978-3-8433-5835-4	Nov, 2010
1	Multilingual Document Image Analysis	Mallikarjun Hangarge, B. V. Dhandra, Ravindra Hegadi	Lambert Academic Publishing, Germany, ISBN No: 978-3-8443-9094-0	May, 2011

Book Chapters

Sl. No.	Title of the Paper, Authors	Title of the Conference	Month and Year	Publisher	Book Title
31	Contrast stretching-based unwanted artifacts removal from CT images, <i>Darshan Ruikar, KC Santosh and Ravindra Hegadi</i>	Second International Conference in Recent Trends in Image Processing and Pattern Recognition (RTIP2R-2018), Solapur, India, 21-22, Dec, 2018, ISBN: 978-981-13-9183-5, https://doi.org/10.1007/978-981-13-9184-2_1 , Vol. 1036, pp. 3-14	Jul, 2019	Springer CCIS	Recent Trends in Image Processing and Pattern Recognition
30	Eye Like Landmarks extraction and patching for face detection using Deep Neural Network, <i>Dattatray Sawat and Ravindra Hegadi, Rajendra S. Hegadi</i>	Second International Conference in Recent Trends in Image Processing and Pattern Recognition (RTIP2R-2018), Solapur, India, 21-22, Dec, 2018, ISBN: 978-981-13-9183-5, DOI: https://doi.org/10.1007/978-981-13-9184-2_36 , Vol. 1036, pp. 395-405	Jul, 2019	Springer CCIS	Recent Trends in Image Processing and Pattern Recognition
29	Simplified deterministic finite automata construction algorithm from language specification, <i>Darshan Ruikar, Amruta Ruikar, Ravindra Hegadi and Suhas Kulkarni</i>	Second International Conference in Recent Trends in Image Processing and Pattern Recognition (RTIP2R-2018), Solapur, India, 21-22, Dec, 2018, ISBN: 978-981-13-9186-6, DOI: https://doi.org/10.1007/978-981-13-9187-3_52 , Vol. 1037, pp. 580-588.	Jul, 2019	Springer CCIS	Recent Trends in Image Processing and Pattern Recognition
28	Siamese Network for Learning Genuine and Forged Offline Signature Verification, <i>Amruta Jagtap, Ravindra Hegadi, Dattatray Sawat and Rajendra Hegadi,</i>	Second International Conference in Recent Trends in Image Processing and Pattern Recognition (RTIP2R-2018), Solapur, India, 21-22, Dec, 2018, ISBN: 978-981-13-9186-6, https://doi.org/10.1007/978-981-13-9187-3_12 , Vol. 1037, pp. 131-139	Jul, 2019	Springer CCIS	Recent Trends in Image Processing and Pattern Recognition
27	Research Challenges in Big Data Security with Hadoop Platform, <i>Shrihari M R, Manjunath T N, Archana R.A and Ravindra S Hegadi</i>	Second International Conference in Recent Trends in Image Processing and Pattern Recognition (RTIP2R-2018), Solapur, India, 21-22, Dec, 2018, ISBN: 978-981-13-9186-6, DOI: https://doi.org/10.1007/978-981-13-9187-3_49 , Vol. 1037, pp. 550-560.	Jul, 2019	Springer CCIS	Recent Trends in Image Processing and Pattern Recognition
26	Distance based Edge Linking (DEL) for character recognition, <i>Parshuram Kamble, Ravindra Hegadi and Rajendra S. Hegadi</i>	Second International Conference in Recent Trends in Image Processing and Pattern Recognition (RTIP2R-2018), Solapur, India, 21-22, Dec, 2018, ISBN: 978-981-13-9186-6, https://doi.org/10.1007/978-981-13-9187-3_23 , Vol. 1037, pp. 261-268.	Jul, 2019	Springer CCIS	Recent Trends in Image Processing and Pattern Recognition
25	An empirical study of the ELM on face matching, <i>Haidong Wang, Md Fawwad</i>	Second International Conference in Recent Trends in Image Processing and Pattern Recognition (RTIP2R-2018),	Jul, 2019	Springer CCIS	Recent Trends in Image Processing and

	<i>Hussain, Himadri Mukherjee, Sk Md Obaidullah, Ravindra Hegadi, Kaushik Roy and K.C. Santosh,</i>	Solapur, India, 21-22, Dec, 2018, ISBN: 978-981-13-9180-4, DOI: https://doi.org/10.1007/978-981-13-9181-1_25 , Vol. 1035, pp. 277-287.			Pattern Recognition
24	Osteoarthritis detection and classification from knee X-ray images based on Artificial Neural Network, Ravindra Hegadi , Dattatray Navale, Trupti Pawar and Darshan Ruikar	Second International Conference in Recent Trends in Image Processing and Pattern Recognition (RTIP2R-2018), Solapur, India, 21-22, Dec, 2018, ISBN: 978-981-13-9183-5, DOI: https://doi.org/10.1007/978-981-13-9184-2_8 , Vol. 1036, pp. 97-105.	Jul, 2019	Springer CCIS	Recent Trends in Image Processing and Pattern Recognition
23	Review on Natural Language Processing Trends and Techniques using NLTK, Deepa Yogish, Manjunath T N and Ravindra S Hegadi	Second International Conference in Recent Trends in Image Processing and Pattern Recognition (RTIP2R-2018), Solapur, India, 21-22, Dec, 2018, ISBN: 978-981-13-9186-6, DOI: https://doi.org/10.1007/978-981-13-9187-3_53 , Vol. 1037, pp. 589-606.	Jul, 2019	Springer CCIS	Recent Trends in Image Processing and Pattern Recognition
22	A Systematic Approach for constructing 3D MRI Brain Image over 2D Images, Vidhya K, Dr Mala C.Patil and Ravindra S Hegadi	Second International Conference in Recent Trends in Image Processing and Pattern Recognition (RTIP2R-2018), Solapur, India, 21-22, Dec, 2018, ISBN: 978-981-13-9183-5, DOI: https://doi.org/10.1007/978-981-13-9184-2_14 , Vol. 1036, pp. 154-162.	Jul, 2019	Springer CCIS	Recent Trends in Image Processing and Pattern Recognition
21	3D imaging in biomedical applications: A systematic review, Darshan D. Ruikar, Dattatray D. Sawat, K.C. Santosh, Ravindra S. Hegadi	(in Press)		Taylor and Francis	Medical Imaging: Artificial Intelligence, Image Recognition, and Machine Learning Tech
20	Segmentation and analysis of CT images for bone fracture detection and labeling, Darshan D. Ruikar, K.C. Santosh, Ravindra S. Hegadi	(in Press)		Taylor and Francis	Medical Imaging: Artificial Intelligence, Image Recognition, and Machine Learning Tech
19	Multi feature-based analysis and classification of osteoarthritis in knee joint X-ray images, Ravindra S. Hegadi , Dattatray N. Navale, Trupti D. Pawar, Darshan D. Ruikar	(in Press)		Taylor and Francis	Medical Imaging: Artificial Intelligence, Image Recognition, and Machine Learning Tech
18	Evolution of Digital Sliding of	(in Press)		Taylor	Medical

	Pathology in Medical Imaging, <i>M Ravi, Ravindra S Hegadi</i>			and Francis	Imaging: Artificial Intelligence, Image Recognition, and Machine Learning Tech
17	Pathological medical image segmentation: a quick review based on parametric techniques, <i>M Ravi, Ravindra S Hegadi</i>	(in Press)		Taylor and Francis	Medical Imaging: Artificial Intelligence, Image Recognition, and Machine Learning Tech
16	A Study on Personalized Early Detection of Breast Cancer Using Modern Technology, <i>Bhavya G., Manjunath T.N., Hegadi R.S., Pushpa S.K.</i>	3rd International Conference on Emerging Research in Electronics, Computer Science and Technology (ICERECT- 2018), Mandya, India, 23-24, August, 2018, ISBN: 978-981-13-5801-2, DOI: https://doi.org/10.1007/978-981-13-5802-9_33 , Vol. 545, pp. 335-362	Aug, 2018	Lecture Notes in Electrical Engineering, Springer , Singapo re	Emerging Research in Electronics, Computer Science and Technology
15	Simple DFA Construction Algorithm Using Divide-and- Conquer Approach, <i>Darshan D. Ruikar, Ravindra S. Hegadi</i>	First International Conference in Data Analytics and Learning (DAL-2018), Mysore, India, 30-31, March, 2018, ISBN: 978-981-13-2513-7, DOI: https://doi.org/10.1007/978-981-13-2514-4_21 , Vol. 43, pp. 245-255	Mar, 2018	Springer LNNS	Data Analytics and Learning
14	Identification of Knee Osteoarthritis using Texture Analysis, <i>Ravindra S. Hegadi, Umesh P.Chavan, Dattatray I. Navale</i>	First International Conference in Data Analytics and Learning (DAL-2018), Mysore, India, 30-31, March, 2018, ISBN: 978-981-13-2513-7, DOI: https://doi.org/10.1007/978-981-13-2514-4_11 , Vol. 43, pp. 121-129	Mar, 2018	Springer LNNS	Data Analytics and Learning
13	Classification of osteoarthritis affected images based on edge curvature analysis, <i>Ravindra S. Hegadi, Trupti D. Pawar, Dattatray I. Navale,</i>	First International Conference in Data Analytics and Learning (DAL-2018), Mysore, India, 30-31, March, 2018, ISBN: 978-981-13-2513-7, DOI: https://doi.org/10.1007/978-981-13-2514-4_10 , Vol. 43, pp. 111-119	Mar, 2018	Springer LNNS	Data Analytics and Learning
12	Lower Facial Curves Extraction for Unconstrained Face Detection in Video, <i>Dattatray D. Sawat, Ravindra Hegadi</i>	International Conference on Communication, Devices and Networking (ICCDN-2017), 3-4, June, 2017, Sikkim, India, ISBN: 978-981-10-7900-9, DOI: https://doi.org/10.1007/978-981-10-7901-6_75 , pp. 689-700	June, 2017	Springer LNEE	Advances in Communication , Devices and Networking
11	Multiple Target Tracking,	5th International Conference on	June,	Springer	Advances in

	<i>Kiran Phalke, Ravindra Hegadi</i>	Advanced Computing, Networking, and Informatics (ICACNI-2017), 1-3, June, 2017, Goa, India, ISBN: 978-981-10-8633-5, https://doi.org/10.1007/978-981-10-8633-5_58 , pp. 579-585	2017	AISC	Intelligent Systems and Computing
10	Skew Detection and Correction of Devanagari Script Using Interval Halving Method, <i>Trupti Jundale, Ravindra Hegadi</i>	International Conference on Recent Trends in Image Processing and Pattern Recognition (RTIP2R 2016), Dec, 16-17, 2016, Bidar, India, ISBN: 978-981-10-4859-3, DOI: 10.1007/978-981-10-4859-3_3, pp. 28-38	April, 2017	Springer CCIS	Recent Trends in Image Processing and Pattern Recognition
9	Comparative Study of Handwritten Marathi Characters Recognition Based on KNN and SVM Classifier, <i>Parshuram M. Kamble, Ravindra S. Hegadi</i>	International Conference on Recent Trends in Image Processing and Pattern Recognition (RTIP2R 2016), Dec, 16-17, 2016, Bidar, India, ISBN: 978-981-10-4859-3, DOI: 10.1007/978-981-10-4859-3_9, pp. 93-101	April, 2017	Springer CCIS	Recent Trends in Image Processing and Pattern Recognition
8	Eigen Value Based Features for Offline Handwritten Signature Verification Using Neural Network Approach, <i>Amruta B. Jagtap, Ravindra S. Hegadi</i>	International Conference on Recent Trends in Image Processing and Pattern Recognition (RTIP2R 2016), Dec, 16-17, 2016, Bidar, India, ISBN: 978-981-10-4859-3, DOI: 10.1007/978-981-10-4859-3_4, pp. 39-48.	April, 2017	Springer CCIS	Recent Trends in Image Processing and Pattern Recognition
7	Developing an Analytical Model for Predicting Mulberry Yield Using Data Mining Techniques, <i>Ramya M.C., Lokesha V., Manjunath T.N., Hegadi R.S.</i>	International Conference on Emerging Research in Computing, Information, Communication and Applications (ERCICA-2016), July 29-30, 2016, Bangalore, ISBN: 978-981-10-0287-8, DOI: 10.1007/978-981-10-0287-8_40, pp 433-442.	July, 2016	Springer Science + Business Media	Emerging Research in Computing, Information, Communication and Applications
6	Need of Hadoop and Map reduce for Processing and Managing Big Data, <i>Manjunath T. N., A. Channabasamma, Ravindra S. Hegadi</i>	Handbook of Research on Managing and Processing Big Data in Cloud Computing, Eds.: Rajkumar Kannan, Raihan Ur Rasool, Hai Jin, S.R. Balasundaram, IGI Global Publishers, ISSN No: 2327-1981, DOI: 10.4018/978-1-4666-9767-6.ch009, pp. 132-144	2016	IGI Global Publishers	Handbook of Research on Managing and Processing Big Data in Cloud Computing
5	Essentiality of Machine Learning Algorithms for big data computation, <i>Manjunath T. N., T. P. Puneeth Kumar, Ravindra S. Hegadi</i>	Handbook of Research on Managing and Processing Big Data in Cloud Computing, Eds.: Rajkumar Kannan, Raihan Ur Rasool, Hai Jin, S.R. Balasundaram, IGI Global Publishers, ISSN No: 2327-1981, DOI: 10.4018/978-1-5225-1759-7.ch126, pp. 156-167	2016	IGI Global Publishers	Handbook of Research on Managing and Processing Big Data in Cloud Computing
4	ROI Based Iris Segmentation and Block Reduction Based Pixel Match for Improved Biometric Applications, <i>Shrinivas Rao B. Kulkarni, Ravindra S. Hegadi, Umakant</i>	Third International Conference on Advances in Computing, Communication and Control (ICAC3-2013), 18-19, January, 2013, Mumbai, India, ISBN: 978-3-642-36320-7, Vol. 361, pp 548-557	Jan, 2013	Springer - AISC	Advances in Computing, Communication, and Control

	<i>P. Kulkarni</i>				
3	Classification of Kannada Numerals using multi-layer Neural Network, Ravindra S. Hegadi	International Conference on Advances in Computing (ICADC-2012), 4-6, July, 2012, Bangalore, India, 978-81-322-0739-9, pp. 963-968.	July, 2012	Springer - AISC	Advances in Intelligent Systems and Computing
2	Template matching approach for Printed Kannada Numeral Recognition, Ravindra S. Hegadi	<i>International Conference on Computational Intelligence and Information Technology (CIIT)</i> , 7-8, November, 2011, Pune, India, ISBN: 978-3-642-20572-9, pp. 648-651.	Nov, 2011	Springer -CCIS	Computational Intelligence and Information Technology
1	Abnormality Detection in Endoscopic Images Using Color Segmentation and Curvature Computation, <i>P.S. Hiremath, B.V. Dhandra, Ravindra Hegadi, G.G. Rajput</i>	<i>11th International Conference on Neural Information Processing (ICONIP-2004)</i> , 22-24, November, 2004, Science City, Calcutta, India, ISBN: 3-540-23931-6, pp. 834-841.	Nov, 2004	LNCS 3316 Springer 2004	Neural Information Processing

Projects

Sr. No.	Type	Title	Agency	Project Period	Grant /Amount Mobilized (Rs. Lakh)
1	On going Projects	Visvesvaraya PhD fellowship for 2014-2019	Ministry of Electronics and IT	2014-2019	50.06
2		Visvesvaraya PhD fellowship for 2015-2020	Ministry of Electronics and IT	2015-2020	50.06
3	Completed Projects	Medical Image Analysis	University Grant Commission	February, 2009 - January, 2012	9.71

Consultancy work

Sr. No.	Work details	Client	Duration	Amount
1	Development of website	Kohinoor Solar, Yadagiri, Karnataka	April, 2017 - June, 2017	40,000

Patents

Sr. No.	Patent title	Application No.	Filed on	Published on
1	Methods for Offline Handwritten Marathi Character Recognition, <i>Ravindra S. Hegadi, P. M. Kamble</i>	201821008703, CBR No. 4167	9/3/2018	16/3/2018

Collaborations

Sr. No.	Collaborating Institution	Collaboration Details	From	To
3	University of Malta (Faculty of Information Technology)	Student and Faculty Academic and Research Exchange	29/5/2019	28/5/2024
2	Leotechsa Robotics Pvt. Ltd., Pune, India	Research & development of commercial imaging products	13/2/2019	12/2/2022
1	Trailect Incorporation, USA	Trialect Global Medical Education Program – Mentoring Program	1/4/2018	31/3/2019