

## Mr. Steven Lawrence Fernandes B.E. M.Tech (Ph.D)

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### EDUCATION

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| Ph.D. in Computer Vision & Machine Learning, Karunya University,<br>Coimbatore, Tamil Nadu, India                            | May 2017  |
| Master of Technology, Microelectronics, Manipal Institute of Technology,<br>Manipal, Karnataka, India                        | June 2011 |
| Bachelor of Engineering, Electronics and Communication Engineering,<br>Canara Engineering College, Bantwal, Karnataka, India | June 2008 |

### ACADEMIC AND TECHNICAL WORK EXPERIENCE

- Assistant Professor, Department of Electronics and Communication Engineering, Sahyadri College of Engineering and Management, June 2014 – Present
- Senior Software Test Analysts, Perform Group Pvt. Ltd., April 2011 – June 2014
- Trainee, STMicroelectronics Pvt. Ltd, July 2010 – April 2011
- Assistant Professor, Department of Electronics and Communication Engineering, Shree Devi Institute of Technology, August 2008 – July 2009

### GRANTS AWARDED

- Vision Group on Science and Technology, Government of Karnataka, “ Development of New Technology For Identification of Most Wanted Criminals Across Age Groups And Age Progression Using Composite Sketches On A Digital Signal Processor” (INR 4,00,000) - VGST/SMYSR/GRD-402/2014-15
- The Institution of Engineers (India), Kolkata, “Developing a Novel Technique for Identification of victims/criminals of sexual exploitation on women and children” (INR 80,000) - DR2016002
- Karnataka State Council for Science and Technology, Department of Science & Technology, Government of Karnataka “A Novel Technique For Early Brain Cancer Detection Using Computer Aided Diagnosis And Artificial Neural Network Implemented On Portable And

Cost Effective Next Unit Computing Device For Rural India - A Make In India Initiative” (INR 7,000) - 39S\_BE\_1611

- Karnataka State Council for Science and Technology, Department of Science & Technology, Government of Karnataka “Rover for Pruning in Precision Agriculture” (INR 5,000) - 39S\_BE\_1243
- Sahyadri Project Support Scheme (SPSS), “C6 Integra DSP + ARM Processor Based Low Resolution and illumination Insensitive Recognition” (INR 25,000).
- Sahyadri Project Support Scheme (SPSS), “Developing a Novel Technique to Recognize Partially Occluded Images on a Dual ARM Cortex Core with FPGA” (INR 25,000).
- Sahyadri Project Support Scheme (SPSS), “Developing a novel technique for 4D Face recognition under pose variation” (INR 25,000).
- Sahyadri Project Support Scheme (SPSS),” Developing a New Technology to Compensate Age Variation and to Recognize India’s Most Wanted Criminals by using i.MX6 Qseven Development Board” (INR 25,000).
- Sahyadri Project Support Scheme (SPSS), “To Develop and Evaluate a Novel ARM+DSP Based Recognition Model using Composite Sketches for Identification of Most Wanted Criminals” (INR 25,000).
- Sahyadri Project Support Scheme (SPSS), “To Develop and Evaluate a Novel ARM+DSP Based Recognition Model using Composite Sketches for Identification of Most Wanted Criminals” (INR 25,000).
- Sahyadri Project Support Scheme (SPSS), “Developing a Highly Secured Multimodal Biometric System on DSP+ARM Processor Using 3D Face and Finger Knuckle Images” (INR 25,000).

## PATENT

1. **Steven Lawrence Fernandes.**, Dr. G. Josemin Bala., (2015). Match Composite Sketches with Drone Images, Filing Date: 06/15/2015. *Status: Application filed*

## PUBLICATIONS

### Refereed Journal Papers – Science Citation Indexed by Thomson Reuters

1. **Steven Lawrence Fernandes**, G. Josemin Bala., A Comparative Study on various State of the Art Face Recognition Techniques under varying Facial Expressions, *The International Arab Journal of Information Technology, Jordan*, Volume. 14, No. 2, March (2017), (Thomson Reuters Impact Factor: 0.582)
2. **Steven Lawrence Fernandes**, Baisakhi Chakraborty, Varadraj P. Gurupur, Ananth Prabhu G, Early Skin Cancer Detection Using Computer Aided Diagnosis Techniques, *Journal of Integrated Design and Process Science, Special issue on Design Of Health Information*

- Systems, USA*, (Emerging Sources Citation Index by Thomson Reuters) – Accepted
3. Syedia Tahseen Fatima Bokhari, Muhammad Sharif, Mussarat Yasmin, **Steven Lawrence Fernandes**, Fundus Image Segmentation and Feature Extraction for the Detection of Glaucoma: A New Approach, *Current Medical Imaging Reviews, Special issue on Frontiers in Intelligent Systems Development for Medical Image Processing & Computer Vision, USA*, (Thomson Reuters Impact Factor: 0.975) – Accepted
  4. S. M. Naqi, Muhammad Sharif, Mussarat Yasmin, **Steven Lawrence Fernandes**, Lung Nodule Detection Using Polygon Approximation and Hybrid Features from Lung CT Images, *Current Medical Imaging Reviews, Special issue on Frontiers in Intelligent Systems Development for Medical Image Processing & Computer Vision, USA*, (Thomson Reuters Impact Factor: 0.975) – Accepted
  5. Bushra Shabbira, Muhammad Sharifa, Wasif Nisara, Mussarat Yasmina, **Steven Lawrence Fernandes**, Automatic Cotton Wool Spots Extraction in Retinal Images Using Texture Segmentation and Gabor Wavelet, *Journal of Integrated Design and Process Science, Special issue on Design Of Health Information Systems, USA*, (Emerging Sources Citation Index by Thomson Reuters) – Accepted
  6. **Steven Lawrence Fernandes**, G. Josemin Bala., Early Face Cancer Detection using Skin Lesion Analysis, *Elsevier Journal of Computational Science, Special issue on Machine Learning and Computer Vision, USA*, (Thomson Reuters Impact Factor: 1.760) – Under Review
  7. **Steven Lawrence Fernandes**, G. Josemin Bala., Cerebral Disease Assessment using Face Recognition Techniques, *Elsevier Journal of Computers in Biology and Medicine, Special issue on Frontiers in Development of Intelligent Applications for Medical Imaging Processing and Computer Vision” USA*, (Thomson Reuters Impact Factor: 1.497) – Under Review
  8. **Steven Lawrence Fernandes**, G. Josemin Bala., Heart Disease Diagnosis using Face Recognition Techniques, *Journal of Medical Imaging and Health Informatics, Special issue on Early Cancer Detection & Machine Vision, USA*, (Thomson Reuters Impact Factor: 0.642) – Under Review
  9. **Steven Lawrence Fernandes**, G. Josemin Bala, Recognizing human movement patterns using knee-hip angle-angle relationship: A biomechanics gait approach, *Journal of Mechanics in Medicine and Biology, Special issue on Frontiers in Development of Intelligent Systems for Human Biomechanics using Soft Computing ,USA*, (Thomson Reuters Impact Factor: 0.731) – Under Review

#### **Refereed Journal Papers – Indexed by Scopus**

1. **Steven Lawrence Fernandes**, G. Josemin Bala.,(2016). Developing a Novel Technique to Match Images Captured from Un-Manned Aerial Vehicle, *Special issue of International Journal of System Assurance Engineering and Management, Springer India*, pp. 1-9.
2. **Steven Lawrence Fernandes**, G. Josemin Bala.,(2016). Modified Feature Descriptor Based

- Approach to Recognize Surgically Altered Human Faces, *International Journal of Applied Mathematics And Informatics, USA*, Volume. 10, pp. 1-9.
3. **Steven Lawrence Fernandes**, G. Josemin Bala.,(2016). Recognize Faces across Multi-View Videos and under Varying Illumination, Facial Expressions, *International Journal of Circuits, Systems and Signal Processing, USA*, Volume. 10, pp. 7-18.
  4. **Steven Lawrence Fernandes**, G. Josemin Bala.,(2016). Recognizing Faces Across Age Progressions and Under Occlusion, *Recent Patents on Computer Science, UAE, Special issue: Recent Advances in Biometrics for Security Applications*, Volume. 8, pp. 1-7.
  5. **Steven Lawrence Fernandes**, G. Josemin Bala.,(2015). Study on MACE Gabor Filters, Gabor Wavelets, DCT-Neural Network, Hybrid Spatial Feature Interdependence Matrix, Fusion Techniques for Face Recognition, *Recent Patents on Engineering, UAE*, Volume. 9, pp. 29-36.
  6. **Steven Lawrence Fernandes**, G. Josemin Bala.,(2014). 3D and 4D Face Recognition: A Comprehensive Review, *Recent Patents on Engineering, UAE*, Volume. 8, pp. 112-119.
  7. **Steven Lawrence Fernandes**, G. Josemin Bala., (2014). Development and Analysis of Various State of the Art Techniques for Face Recognition under varying Poses, *Recent Patents on Engineering, UAE*, Volume 8, pp. 143-146.

#### **Springer Book Series – Indexed by Scopus**

1. **Steven Lawrence Fernandes**, G. Josemin Bala, “Image Quality Assessment Based Approach to Estimate the Age of Pencil Sketch” *Advances in Intelligent Systems and Computing - Springer, Switzerland– In Press*
2. **Steven Lawrence Fernandes**, G. Josemin Bala, “Similarity Descriptor and Local Descriptors Based Composite Sketch Matching” *Advances in Intelligent Systems and Computing - Springer, Switzerland – In Press*.
3. **Steven Lawrence Fernandes**, G. Josemin Bala, “Sparse Representation Based Face Recognition Under Varying Illumination Conditions” *Smart Innovation, Systems and Technologies, Springer Verlag, Germany – In Press*
4. S. N. Bharath Bhushan, Ajit Danti, **Steven Lawrence Fernandes**, “A Novel Integer Representation Based Approach for Classification of Text Documents” *Advances in Intelligent Systems and Computing - Springer, Switzerland – In Press*.
5. **Steven Lawrence Fernandes**, G. Josemin Bala, “A Comparative Study on Multi-View Discriminant Analysis and Source Domain Dictionary Based Face Recognition” *Advances in Intelligent Systems and Computing - Springer, Switzerland, Vol. 433, No.1, pp 331-337, January (2016), DOI: 10.1007/978-81-322-2755-7\_35*.
6. **Steven Lawrence Fernandes**, G. Josemin Bala, “A Study on Face Recognition Under Facial Expression Variation and Occlusion” *Advances in Intelligent Systems and Computing - Springer, Switzerland, Vol. 397, No.1, pp 371-377, January (2016), DOI: 10.1007/978-81-*

7. **Steven Lawrence Fernandes**, G. Josemin Bala, “A Novel Technique to Recognize Human Faces Across Age Progressions” *Advances in Intelligent Systems and Computing* - Springer, Switzerland, Vol. 397, No.1 , pp 379-385, January (2016), DOI: 10.1007/978-81-322-2671-0\_36
8. **Steven Lawrence Fernandes**, G. Josemin Bala, “Recognizing Faces in Corrupted Images” *Advances in Intelligent Systems and Computing* - Springer, Switzerland, Vol. 397, No.1, pp 511-518, January (2016), DOI: 10.1007/978-81-322-2671-0\_49
9. **Steven Lawrence Fernandes**, G. Josemin Bala, “Analysing State of the Art Techniques to Recognize Faces under Multimodal Biometrics” *Advances in Intelligent Systems and Computing* -Springer, Switzerland, Vol. 381, No.3, pp 473-478, September (2015), DOI: 10.1007/978-81-322-2526-3\_49.
10. **Steven Lawrence Fernandes**, G. Josemin Bala, “Simulation Level Implementation of Face Recognition under Un-controlled Environment” *Advances in Intelligent Systems and Computing* - Springer, Switzerland, Vol. 381, No. 3, pp 467-472, September (2015), DOI: 10.1007/978-81-322-2526-3\_48.
11. **Steven Lawrence Fernandes**, G. Josemin Bala, “Recognizing Faces When Images Are Corrupted By Varying Degree of Noises and Blurring Effects” *Advances in Intelligent Systems and Computing* - Springer, Switzerland, Vol. 337, No. 1, pp 101-108, January (2015), DOI:10.1007/978-3-319-13728-5\_11.
12. **Steven Lawrence Fernandes**, G. Josemin Bala, “Low Power Affordable, Efficient Face Detection In The Presence Of Various Noises And Blurring Effects On A Single-Board Computer” *Advances in Intelligent Systems and Computing* - Springer, Switzerland, Vol. 337, No. 1, pp 119-127, January (2015), DOI: 10.1007/978-3-319-13728-5\_13.

#### **ACM Digital Library**

1. **Steven Lawrence Fernandes**, G. Josemin Bala, “Robust Human Skin Detection using OpenCV on ARM based ODROID XU4 Heterogeneous Multi-Processing Device” *ACM – ICPS*, ISBN No 978-1-4503-3962-9 – In Press

#### **International Conferences – Oral Presentation at USA**

1. **Steven Lawrence Fernandes.**, G. Josemin Bala, (2016), Matching Composite Sketches with Images Captured from Drone, *Proceeding of 7th International Multi-Conference on Complexity, Informatics and Cybernetics (IMCIC 2016)*, Orlando, Florida, USA, March 8-11, 2016, pp 6-8.
2. **Steven Lawrence Fernandes.**, G. Josemin Bala, (2016), A Comparative Study on Early Skin Cancer Detection Using Computer Aided Diagnosis Techniques, *Proceeding of 7th International Multi-Conference on Complexity, Informatics and Cybernetics (IMCIC 2016)*, Orlando, Florida, USA, March 8-11, 2016, pp 9-13.

### Thomson Reuters Indexed - International Conferences

1. **Steven Lawrence Fernandes.**, G. Josemin Bala., (2015), A Comparative Study to Recognize Surgically Altered Images, *Proceeding of 19th International Conference on Circuits, Systems, Communications and Computer (CSCC-2015)*, Greece, Europe, July 16-20, 2015, pp 434 – 439.
2. **Steven Lawrence Fernandes.**, G. Josemin Bala, (2015), A Novel Technique to Detect and Recognize Faces in Multi-view Videos *Proceeding of 19th International Conference on Circuits, Systems, Communications and Computer (CSCC-2015)*, Greece, Europe, July 16-20, pp 427 – 433.

### Elsevier Procedia Computer Science - International Conferences

1. **Steven Lawrence Fernandes.**, G. Josemin Bala., (2015), Developing a Novel Technique to Match Composite Sketches with Images captured by Unmanned Aerial Vehicle, *Proceeding of 1st International Conference on Information Security and Privacy (ICISP 2015)*, G H Rasoni College of Engineering, Nagpur, India, December 11-12 - In Press
2. **Steven Lawrence Fernandes.**, G. Josemin Bala, (2015), Developing a Novel Technique for Face Liveness Detection, *Proceeding of 1st International Conference on Information Security and Privacy (ICISP 2015)*, G H Rasoni College of Engineering, Nagpur, India, December 11-12 - In Press

### IEEE Xplore archived - International Conferences

1. Rashmi Rai V, **Steven Lawrence Fernandes** et al., “Recognizing Images across Age Progressions: A Comprehensive Review” – in the Proceeding IEEE Xplore archived 2nd International Conference Electronics and Communication Systems (ICECS-2015) pp 572 - 576 at Karpagam College of Engineering, Coimbatore, India on 26th to 27th February 2015, DOI: 10.1109/ECS.2015.7124973.
2. Vinusha, **Steven Lawrence Fernandes** et. al., “A Brief Review On Techniques for Recognizing Images Under Varying Poses” in the Proceeding IEEE Xplore archived 2nd International Conference Electronics and Communication Systems (ICECS-2015) pp 583 - 588 at Karpagam College of Engineering, Coimbatore, India on 26th to 27th February 2015, DOI: 10.1109/ECS.2015.7124975.
3. Ashwini G Pai, **Steven Lawrence Fernandes** et. al., “Recognizing human faces under varying degree of Illumination: A comprehensive survey” – in the Proceeding IEEE Xplore archived 2nd International Conference Electronics and Communication Systems (ICECS-2015) pp 577 - 582 at Karpagam College of Engineering, Coimbatore, India on 26th to 27th February 2015, DOI: 10.1109/ECS.2015.7124974.
4. Bishwas Mishra, **Steven Lawrence Fernandes** et. al., “Facial Expression Recognition Using Feature Based Techniques And Model Based Techniques: A Survey” in the Proceeding IEEE Xplore archived 2nd International Conference Electronics and Communication Systems (ICECS-2015) pp 589 - 594 at Karpagam College of Engineering, Coimbatore, India on 26th

to 27th February 2015, DOI:10.1109/ECS.2015.7124976.

5. Sheethal K Rao, **Steven Lawrence Fernandes** et. al., “A Review on Various State of Art Technique to Recognize Occluded Face Images” in the Proceeding IEEE Xplore archived 2nd International Conference Electronics and Communication Systems (ICECS-2015) pp 595 - 601 at Karpagam College of Engineering, Coimbatore, India on 26th to 27th February 2015, DOI: 10.1109/ECS.2015.7124977.
6. **Steven Lawrence Fernandes**, G. Josemin Bala, “Recognizing facial images in the presence of various Noises and Blurring effects using Gabor Wavelets, DCT-Neural Network, Hybrid Spatial Feature Interdependence Matrix” in the Proceeding IEEE Xplore archived 2nd International Conference on Devices, Circuits and Systems (ICDCS-2014) pp 1-5 at Karunya University, Coimbatore, India on 6th to 8th March 2014, DOI: 10.1109/ICDCSyst.2014.6926130.
7. **Steven Lawrence Fernandes**, G. Josemin Bala, “Recognizing Facial Images Using ICA, LPP, MACE Gabor Filters, Score Level Fusion Techniques” – in the Proceeding IEEE Xplore archived International Conference Electronics and Communication Systems (ICECS-2014) pp 1-5 at Karpagam College of Engineering, Coimbatore, India on 13th to 14th February 2014, DOI: 10.1109/ECS.2014.6892552.
8. **Steven Lawrence Fernandes**, G. Josemin Bala, P. Nagabhushan, S. K Mandal, “Robust Face Recognition in the presence of Noises and Blurring effects by fusing Appearance based techniques and Sparse Representation” – in the Proceeding IEEE Xplore archived International Conference on Advanced Computing, Networking and Security (ADCONS-2013) pp 84-89, at National Institute of Technology Karnataka (NITK), Surathkal, India on 15th to 17th December 2013, DOI:10.1109/ADCONS.2013.16.
9. **Steven Lawrence Fernandes**, G. Josemin Bala, P. Nagabhushan, S. K Mandal, “A Comparative Study on Score Level Fusion Techniques and MACE Gabor Filters for Face Recognition in the presence of Noises and Blurring effects” – in the Proceeding IEEE Xplore archived International Conference on Cloud & Ubiquitous Computing and Emerging Technologies (CUBE-2013) pp 193-198, at Pune, India on 15th to 16th November 2013, DOI: 10.1109/CUBE.2013.43.
10. **Steven Lawrence Fernandes**, G. Josemin Bala, “A Comparative Study On ICA and LPP Based Face Recognition Under Varying Illuminations And Facial Expressions” in the Proceeding of IEEE Xplore archived International Conference on Signal Processing, Image Processing and Pattern Recognition (ICSIPR-2013) pp 122-126, at Karunya University, Coimbatore, India on 7th to 8th February 2013, DOI:10.1109/ICSIPR.2013.6497972.

#### INDUSTRY PROJECT WORK UNDERTAKEN

- Socket Development for Validation of Standard Cell Automation Tool used in Test chip Design (M.Tech Project).
- Developing Automation Framework for Web Services – [www.goal.com](http://www.goal.com), [www.livesport.tv](http://www.livesport.tv), [www.tennistv.com](http://www.tennistv.com).

- Developing Automation Framework for Mobile Applications (Android, iOS, Windows) – Goal.com 36 editions.

## **ACADEMIC AWARDS AND HONORS**

- Patent Notification for “Match Composite Sketch With Drone Images” (2983/CHE/2015), Government of India.
- Research Grant from “The Institution of Engineers” (INDIA), for Ph.D. Research.
- “Young Scientist Award” by Vision Group on Science and Technology, Government of Karnataka and Seed Money of 04 lakhs to initiate Research.
- “Star Employee Award” from Perform Group Pvt. Ltd., UK for exceptional performance in Quality Assurance of Goal.com applications in 36 languages.
- Rated 5/5 “Outstanding” Quality Assurance Engineer for improving quality of software product.
- Reviewer for SCI Elsevier Journal “Neurocomputing”, USA, ISSN: 0925-2312 (Thomson Reuters Web of Science Impact Factor: 2.083).
- Reviewer for “Springer Advances in Intelligent Systems and Computing”, Switzerland.
- Reviewer for SCI “Journal of Electronic Imaging”, USA, ISSN: 1017-9909 (Thomson Reuters Web of Science Impact Factor: 0.672).
- Guest Editor for Scopus (Elsevier) Journal “Recent Patents on Computer Science”, UAE, ISSN: 1874-4796.
- “First Class with Distinction”(9.23 CGPA) in M.Tech, Manipal Institute of Technology, Manipal.
- “10/10 GPA” for M.Tech Project carried out at STMicroelectronics Pvt. Ltd, Greater Noida.
- “M.Tech Topper” 2nd Semester (9.40 GPA), Manipal Institute of Technology, Manipal.
- 5th rank in All India Entrance Exam for PG courses conducted by Manipal University, Manipal.
- “First Class with Distinction” (71.01%) in B.E, Visvesvaraya Technological University, Belagavi.

## **SERVICES**

### **Reviewer for International Journal Submissions - Indexed by Thomson Reuters / Scopus**

- Journal of Electronic imaging, ISSN: 1017-9909, E-ISSN: 1560-229X, Thomson Reuters

- Impact: 0.832, Indexed by: Science Citation Index-Expanded, EI Compendex, EBSCO database, Scopus.
- Current Medical Imaging Reviews, ISSN: 1573-4056, E-ISSN: 1875-6603, Thomson Reuters Impact: 0.832, Indexed by: Science Citation Index-Expanded, EI Compendex, EBSCO database, Scopus.
  - Journal of Medical Imaging and Health Informatics, ISSN: 2156-7018: E-ISSN: 2156-7026, Thomson Reuters Impact: 0.642, Indexed by: Science Citation Index-Expanded, EI Compendex, EBSCO database, Scopus.
  - Remote Sensing, ISSN 2072-4292, Thomson Reuters Impact Factor: 3.180, Indexed by: Science Citation Index-Expanded, EI Compendex, EBSCO database, Scopus.
  - Special issue of Journal of Intelligent & Fuzzy Systems, ISSN: 1064-1246, E-ISSN: 1875-8967, Thomson Reuters Impact Factor: 0.936, Indexed by: Science Citation Index-Expanded, EI Compendex, EBSCO database, Scopus.
  - IET Biometrics, United Kingdom, ISSN: 2047-4938, E-ISSN: 2047-4946, Indexed by: EI Compendex, DBLP, SCImago, ProQuest.
  - Neurocomputing, ISSN: 0925-2312, Thomson Reuters Impact Factor: 2.083, Indexed by: Science Citation Index-Expanded, EI Compendex, EBSCO database, Scopus.
  - Institute of Integrative Omics and Applied Biotechnology, ISSN: 0976-3104, Indexed by: Thomson Reuters Scopus
  - International Journal of Rough Sets and Data Analysis, USA, ISSN: 2334-4598, E-ISSN: 2334-4601, Indexed by: ACM Digital Library.
  - International Journal of System Assurance Engineering and Management, ISSN: 0975-6809, E-ISSN: 0976-4348, Indexed by: Scopus
  - The Open Automation and Control Systems, ISSN: 1874-4443, Indexed by: Scopus
  - International Journal of Convergence Computing, ISSN: 2048-9129, E-ISSN: 2048-9137, Indexed by: Google Scholar.
  - International Journal of Image Mining, ISSN: 2055-6039, E-ISSN: 2055-6047

#### **Reviewer for International Conference Submissions - Indexed by Scopus**

- The 20th International Conference on Circuits, Systems, Communications and Computers (CSCC 2016) Proceeding will published by MATEC Web of Conferences (Confirmed).
- First International Conference on Data Engineering and Communication Technology (ICDECT 2016) Proceeding will be published in Springer Advances in Intelligent Systems and Computing Springer (Confirmed).

- First International Conference on Intelligent Computing and Communication (ICIC2 2016) Proceeding will be published in Springer Advances in Intelligent Systems and Computing Springer (Confirmed).
- 5th International Conference on Frontiers in Intelligent Computing: Theory and Applications (FICTA 2016) Proceeding will be published in Springer Advances in Intelligent Systems and Computing Springer (Confirmed).
- Information and Communication Technology for Competitive Strategies (ICTCS 2016), Proceeding will be published in ACM – ICPS (Confirmed).
- First International Conference on Information Security and Privacy (ICISP 2015), Proceeding will be published in Elsevier Procedia Computer Science (Confirmed).
- International Conference on ICT for Intelligent Systems (ICTIS 2015) Proceeding will be published in Springer Smart Innovation, Systems and Technologies (Confirmed).
- 3rd International Conference on INformation System Design and Intelligent Applications (INDIA 2016) Proceeding will be published in Springer Advances in Intelligent Systems and Computing Springer (Confirmed).
- 4th International Conference on Frontiers in Intelligent Computing: Theory and Applications (FICTA 2015) Proceeding published in Springer Advances in Intelligent Systems and Computing Springer.
- 2nd International Conference on Computing for Sustainable Global Development (INDIACom 2015) Proceeding published in IEEE Xplore Digital Library.
- International Conference on Computer and Communication Technologies (IC3T 2015) Proceeding published in Springer Advances in Intelligent Systems and Computing
- Emerging ICT for Bridging Future (CSI-2014) Proceeding published in Springer Advances in Intelligent Systems and Computing
- International Conference on Cloud & Ubiquitous Computing and Emerging Technologies (CUBE- 2013) Proceeding published in IEEE Xplore Digital Library

#### **Journal Special Issue – Science Citation Indexed by Thomson Reuters**

- Special Issue on “Machine Learning and Computer Vision” of “Elsevier Journal of Computational Science” (Thomson Reuters Impact Factor: 1.760)
- Special Issue on “Frontiers in Development of Intelligent Applications for Medical Imaging Processing and Computer Vision” of “Elsevier Journal Computers in Biology and Medicine” (Thomson Reuters Impact Factor of 1.459)
- Special Issue on “Frontiers in Development of Intelligent Systems for Human

Biomechanics using Soft Computing” of “Journal of Mechanics in Medicine and Biology” (Thomson Reuters Impact Factor of 0.731)

- Special Issue on “Frontiers in Intelligent Systems Development for Medical Image Processing & Computer Vision” of “Current Medical Imaging Reviews” (Thomson Reuters Impact Factor of 0.975)
- Special Issue on “Early Cancer Detection & Machine Vision” of “Journal of Medical Imaging and Health Informatics” (Thomson Reuters Impact Factor of 0.623)
- Special Issue on “Frontiers in Intelligent Systems Development” of “Institute of Integrative Omics and Applied Biotechnology” (Emerging Sources Citation Index by Thomson Reuters)

#### **Journal Special Issue – Indexed by Scopus**

- Special issue on “Recent Advances in Biometrics for Security Applications” of “Recent Patents on Computer Science”

#### **International Conferences Special Sessions – Indexed by Thomson Reuters / Scopus**

- Special Session on “Frontiers in Development of Intelligent Applications for Medical Image Processing, Computer Vision and Soft Computing” - The 7th International Multi-Conference on Complexity, Informatics and Cybernetics: IMCIC 2016, Orlando, Florida, USA.
- Special Session on “Metaheuristics for Medical Image Processing & Computer Vision” - 10th International Workshop on Hybrid Metaheuristics at Plymouth, United Kingdom (Proceeding will be published in Springer Lecture Notes in Computer Science)
- Special Session on “Frontiers in Development of Intelligent Machine Learning Systems” - The 20th International Conference on Circuits, Systems, Communications and Computers (CSCC 2016) at Corfu Island, Greece (Proceeding will be published by MATEC Web of Conferences)
- Special Session on “Intelligent Machine Learning And Soft Computing” – 2nd Second International Conference on Information and Communication Technology for Competitive Strategies (ICTCS-2016) at Udaipur, India (Proceeding will be published in ACM – ICPS Proceedings Volume ISBN No 978-1-4503-3962-9)
- Special Session on “Recent Advances In Digital Forensics For Security Applications” - First International Conference on Information Security and Privacy (ICISP 2015) at G H Raisoni College of Engineering, Nagpur, India (Proceeding will be published in Elsevier Procedia Computer Science - ISSN: 1877-0509)
- Special Session on Intelligent Soft Computing For Pattern Recognition And Medical Imaging Applications -5th International Conference on Soft Computing for Problem Solving (SocProS 2015) at Indian Institute of Technology Roorkee, India (Proceeding published in Springer Advance In Advances in Intelligent Systems and Computing - ISSN: 2194-5357).
- Special Session on Pattern Recognition, Machine Learning and Forensic Applications - 19th International Conference on Circuits, Systems, Communications and Computers (CSCC

- 2015), Zakynthos Island, Greece, Europe (Proceeding indexed by Thomson Reuters – Web of Science).
- Special Session on Computer Vision, Graphics and Image Processing - International Conference on Green Computing and Internet of Things (ICGCIoT 2015) at Galgotias College of Engineering & Technology, Greater Noida, India (Proceeding published in IEEE Xplore Digital Library).
  - Special Session on Recent Advances In Digital Forensics For Security Applications - International Conference on Information Security and Privacy (ICISP) at G H Raison College of Engineering, Nagpur, India (Proceeding published in Elsevier Procedia Computer Science - ISSN: 1877-0509).

#### **International Conferences Track Chair – Indexed by Thomson Reuters / Scopus**

- Track Chair Image Processing, First International Conference on Data Engineering and Communication Technology (ICDECT 2016) at Lavasa City, Pune, India (Proceeding will be published in Springer Advances in Intelligent Systems and Computing Springer - ISSN: 2194-5357).
- Track Chair Image Processing, Machine Learning and Pattern Recognition - International Conference on ICT for Intelligent Systems (ICTIS - 2015) at Ahmedabad, Gujarat, India (Proceeding published in Springer – Smart Innovation, Systems and Technologies ISSN: 2190-3018).
- Track Chair Image Processing, Machine Learning and Pattern Recognition - 3rd International Conference on Information System Design and Intelligent Applications (INDIA – 2015) at Visakhapatnam, Andhra Pradesh, India (Proceeding published in Springer Advance In Advances in Intelligent Systems and Computing - ISSN: 2194-5357).

#### **Professional Membership**

- Institute of Electrical and Electronics Engineers (IEEE)
- Indian Society of Technical Education (ISTE)
- Association for Computing Machinery (ACM)
- The Institution of Engineers India (IEI)