

# Dr.Prakash Duraisamy

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Assistant Professor,  
Department of Computer Science  
University of South Alabama,  
Mobile,Alabama, U.S.A

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## Research Interests

Computer Vision, Computer Graphics, Robotics, Visualization, Image Processing, Bio - Medical and Remote Sensing.

## Education

- **University of North Texas** Denton, Texas  
*Ph.D. Computer Science and Engineering* 2009 – 2012
  - Advisor: Bill Buckles and Kamesh Namuduri
  - Thesis: 3D Reconstruction using LiDAR and 2D Images
  - GPA: 3.88 \ 4.0
- **University of South Alabama** Mobile,Alabama  
*M.S. Electrical Engineering* 2006 – 2008
  - Advisor: Aed El Saba
  - Thesis: Visual Contrast Enhancement of Optical Coherence Tomography Images using Combined and Digital Image Fusion Methods
  - GPA: 3.66 \ 4.0
- **Bharathiar University** Coimbatore, India  
*B.E. Electronics and Communication Engineering* 1999 – 2002
  - GPA: 3.9 \ 4.0

## Teaching Experience

- **University of South Alabama** Mobile, Alabama, U.S.A  
*Computer Graphics, Computer Vision, Software Engg* Fall 2018 - Spring 2020
- **Cleveland State University** Cleveland, Ohio, U.S.A  
*Java Prog, Software Engg* Fall 2017 - Spring 2018
- **University of Central Missouri** Lees Summit, Missouri, U.S.A  
*Data Mining, Algorithms* Fall 2016 - Spring 2017

- **Miami University** Oxford, Ohio, U.S.A  
*Database Systems, Fundamentals of Prog, Data Structures* Fall 2015 - Spring 2016
- **Rochester Institute of Technology** Rochester, New York, U.S.A  
*Computer Vision, Computer Graphics, C++* Fall 2014 - Spring 2015
- **Old Dominion University** Norfolk, Virginia, U.S.A  
*Computer Information Literacy - ECE 111* Fall 2013 - Spring 2014
- **University of South Alabama** Mobile, Alabama, U.S.A  
*Electronics Systems Laboratory* Fall 2007 - Spring 2008
- **Bannari Amman Insitute of Technology** Coimbatore, Tamil Nadu, India  
*Information Theory, Communication Systems* Fall 2005 – Spring 2006
- **Bannari Amman Insitute of Technology** Coimbatore, Tamil Nadu, India  
*Television Engineering, Communication Systems* Fall 2004 – Spring 2005
- **Bannari Amman Insitute of Technology** Coimbatore, Tamil Nadu, India  
*Network Analysis and Systems, Television Engineering* Fall 2003 – Spring 2004
- **Maharaja Engineering College, India** Coimbatore, Tamil Nadu, India  
*Display Systems, Digital Signal Processing* Fall 2002 – Spring 2003

## Publications

### Journal Articles

1. **Prakash Duraisamy**, Belkhouche Yassine, Kamesh Namaduri, Steve Jackson, Bill Buckles, "Automated 2D-3D registration using Intensity Gradients for 3D reconstruction" , SPIE, Special Issue, Advancement in Remote Sensing Applications for Locust Habitat Monitoring and Management (JARS), Volume 6, April 23, 2012.
2. Yiwen Wan, **Prakash Duraisamy**, Bill Buckles, Mohammed S Alam, "Wireless Capsule Endoscopy Segmentation using Global- Constrained Hidden Markov Model and Image Registration", International Journal of Computer Vision and Signal Processing, Volume 2, No-1, September, 2012.
3. **Prakash Duraisamy** , Belkhouche Yassine, Kamesh Namaduri, Steve Jackson, Bill Buckles, "Choosing Appropriate Homography Transformation for Building Panoramic Images" , International Journal of Computer Vision and Signal Processing, Volume 2, No-1, September, 2012.
4. **Prakash Duraisamy**, Kamesh Namuduri, Stephen Jackson, Bill Buckles, "Robust Automated Registration of Visual Imagery with 3D LiDAR models" , SPIE - Electronic Imaging (EI), Volume 22, Issue -3, September 26, 2013.
5. Sumithra Palanisamy, **Prakash Duraisamy**, Xiaohui Yuan, "Adaptive Wavelet Shrinkage for Noise Robust Speaker Recognition", Digital Signal Processing, Elsevier, June 2014.
6. Belkhouche Yassine, **Prakash Duraisamy**, Bill Buckles, "Graph Connected Components for Filtering Urban LiDAR Data" , SPIE - Journal of Applied Remote Sensing, March 10, 2015

## Under Review

7. **Prakash Duraisamy**, Amr Yousef, Khan M. Iftekharruddin, Steve Jackson, "Novel Shoreline Extraction from Fusion of Aerial and LiDAR Images", Optical Society of America.
8. Amr Yousef, **Prakash Duraisamy**, Khan M. Iftekharruddin, "Novel Metric to Evaluate Synthetic and Real Images", Optical Society of America.
9. **Prakash Duraisamy**, Sundararajan Tharai Vinay Paramasivam, Stephen Craig Jackson, Mohammad S Alam, Bill Buckle, "Co-registration Under Mixed Illumination Conditions", SPIE- Electronic Imaging.
10. **Prakash Duraisamy**, Belkhouche Yassine, Steve Jackson, Kamesh Namaduri, Bill Buckles, "Identifying Regions of Change in Unregistered Color Imagery", SPIE - Journal of Applied Remote Sensing.

## Conference Proceedings

1. Dongyu Ang, Yao Shen, **Prakash Duraisamy**, "Video Analytics for Multi camera Traffic Surveillance", ACM, 2<sup>nd</sup> International Workshop on Computational Transportation Science, Seattle, Washington, USA, 2009, pp-(25-30), ISBN: 978-1-60558-861-2.
2. Aed El Saba, **P. Duraisamy**, "Visual Contrast Enhancement and Measurement Techniques applied to Optical Coherence Tomography", SPIE Defense, Security and Sensing, Florida, USA, March 2010, Proc of SPIE Vol.7701.
3. **Prakash Duraisamy**, Aed El Saba, Girithara Balathasan, Xiaohui Yuan, "Visual Contrast Enhancement of Optical Coherence Tomography Images Via Image Fusion", IEEE, 2nd International Conference on Communication, Computing and Networking Technologies (ICCCNT), Karur, India, July, 2010, pp-(1) ISBN: 978-1-4244-6591-0.
4. **Prakash Duraisamy**, Kamesh Namaduri, Steve Jackson, "Evaluation of Error metrics for Image Registration of Multiple Images", IEEE, 2<sup>nd</sup> International Conference on Communication, Computing and Networking Technologies (ICCCNT), Karur, India, July, 2010, pp-(1-8), ISBN: 978-1-4244-6591-0.
5. **Prakash Duraisamy**, Yao Shen, Xiaohui Yuan, "Image Registration Error Analysis using Pattern Recognition Algorithms", SPIE, Optical Engineering and Applications, San Diego, USA, Aug 2010, Proc of SPIE Vol.7799
6. **Prakash Duraisamy**, Yao Shen, Kamesh Namaduri, Steve Jackson, "Error Analysis and Performance Estimation using two different Mathematical Algorithms for Image Registration Applications", SPIE, Optical Engineering and Applications, San Diego, USA, Aug 2010, Proc of SPIE Vol.7799.
7. **Prakash Duraisamy**, Belkhouche Yassine, Steve Jackson, Kamesh Namaduri, Ye Yu, "Fast Automated 2-D Estimation and Error Reduction by Model Selection", IEEE, 14<sup>th</sup> IEEE International Conference on Computational Science and Engineering, Dalian, China, August 2011, CSE, pp.89-92, ISBN: 978-0-7695-4477-9.
8. **Prakash Duraisamy**, Belkhouche Yassine, Steve Jackson, Kamesh Namaduri, Bill Buckles, "Estimation of Camera Matrix using LiDAR Images", SPIE, Optical Engineering and Applications, San Diego, USA, August 2011, Proc of SPIE Vol. 8135.

9. **Prakash Duraisamy**, Belkhouche Yassine, Steve Jackson, Kamesh Namaduri, Bill Buckles, "2D-3D Registration using Intensity Gradients", SPIE, Optical Engineering and Applications, San Diego, USA, August 2011. Proc of SPIE Vol. 8137.
10. **Prakash Duraisamy**, Ye Yu, Steve Jackson, Kamesh Namaduri, Bill Buckles, "Map Updation using Image Registration for Different Sensors by Camera Calibration", IEEE, The 2011 International Conference on Wireless Communication and Signal Processing (WCSP), Nanjing, China, November 2011, ISBN: 978-1-4577-1008 -7/11.
11. **Prakash Duraisamy**, Ye Yu, Kamesh Namaduri, Steve Jackson, Bill Buckles, "A Comparison of Image of Image Registration Techniques for Joining Sequential Images", IEEE, The 2011 International Conference on Wireless Communication and Signal Processing (WCSP), Nanjing, China, November 2011, ISBN: 978-1-4577-1008 -7/11.
12. Yiwen Wan, **Prakash Duraisamy**, Mohammad S Alam, Bill Buckles "Global Constrained Hidden Markov Model applied on Wireless Capsule Endoscopy Video Segmentation", SPIE Defense, Security and Sensing, Baltimore, Maryland, USA, April 2012, Proc of SPIE Vol. 8384.
13. **Prakash Duraisamy**, "Color-based Features for Registering Image Time Series", Belkhouche Yassine, Steve Jackson, Kamesh Namaduri, Bill Buckles, SPIE Defense, Security and Sensing, Baltimore, Maryland, USA, April 2012, Proc of SPIE Vol. 8394.
14. Sumithra Palanisamy, **Prakash Duraisamy**, Mohammed S Alam, Xiaohui Yuan, "A New Time Adaptive Discrete Bionic Wavelet Transform for Enhancing Speech from Adverse Noise Environment", SPIE Defense, Security and Sensing, Baltimore, Maryland, USA, April 2012, Proc of SPIE Vol. 8398.
15. Belkhouche Yassine, Bill Buckles, **Prakash Duraisamy**, Kamesh Namuduri, "Registration of 3-D LiDAR Data with Visual Imagery using Shape Matching", The 16<sup>th</sup> International Conference on Image Processing, Computer Vision, & Pattern Recognition" Las Vegas, USA, July 2012.
16. Mohamed Abouelenien, Xiaohui Yuan, **Prakash Duraisamy**, Xiaojing Yuan, "Improving Classification Performance for the Minority Class in Highly Imbalanced Dataset using Boosting", IEEE, 3rd International Conference on Computing Communication and Networking Technologies (ICCCNT) ", Coimbatore, India, July 2012.
17. **P. Duraisamy**, B.Yassine, Ye Yu, S. Jackson, K. Namuduri, B.Buckles, "Low- Complexity Registration of Visual Imagery with 3D-Lidar" IEEE, 3rd International Conference on Computing Communication and Networking Technologies (ICCCNT), Coimbatore, India, July 2012.
18. **Prakash Duraisamy**, Steve Jackson, Kamesh Namaduri, Bill Buckles, Mohammed S Alam, "Robust 3 D Reconstruction using LiDAR and N-Views of Visual Image", SPIE Defense, Security and Sensing, Baltimore, Maryland, USA, April 2013, Proc of SPIE Vol. 8748.
19. **Prakash Duraisamy**, Steve Jackson, Bill Buckles, Mohammed S Alam, "Image Registration under Poor Illumination using Calibrated Cameras", SPIE Defense, Security and Sensing, Baltimore, Maryland, USA, April 2013, Proc of SPIE Vol. 8748.
20. **Prakash Duraisamy**, Steve Jackson, "Orthogonal Detection and Registration for Microstructures Images", IEEE, 1<sup>st</sup> International Conference on Communication and Computer Vision (ICCCV) ", Coimbatore, India, December 2013.

21. **Prakash Duraisamy**, Amr Yousef, Khan M. Iftekharuddin,"Novel Metrics to Contrast Synthetic and Real Objects in Overhead Hyperspectral Images", SPIE Defense, Security and Sensing Baltimore, Maryland, USA, May 2014, Proc of SPIE Vol. 9088-37.
22. Yassine Belkhouche, Bill Buckles, **Prakash Duraisamy**, Mohammed S Alam, "Graph based Filtering of Urban LiDAR Data", SPIE Defense, Security and Sensing, Baltimore, Maryland USA, May 2014, Proc of SPIE Vol. 9094-18.
23. **Prakash Duraisamy**, Amr Yousef, Khan M. Iftekharuddin, Steve Jackson,"Shoreline Extraction from 2-D and 3-D LiDAR Images", Imaging and Applied Optics Congress, Seattle, Washington, USA, July 2014, Proc of Optical Society of America.
24. Amr Yousef, **Prakash Duraisamy**, Mohammad Karim, "An Improved Algorithm for Pedestrian Detection ", SPIE Defense, Security and Sensing, Baltimore, Maryland, USA, April 2015, Proc of SPIE. Vol. 9477-11
25. **Prakash Duraisamy**,Amr Yousef,Bill Buckles, Steve Jackson," Image Registration under Symmetric Conditions - Novel Approach", SPIE Defense, Security and Sensing, Baltimore, Maryland, USA, April 2015, Proc of SPIE. Vol. 9477-19
26. Amr Yousef, **Prakash Duraisamy** " A new clustering algorithm for scanning electron microscope images ", SPIE Defense, Security and Sensing, Baltimore, Maryland, USA, April 2016, Proc of SPIE.
27. Sachin Meena, **Prakash Duraisamy**, Kannapan Palaniappan, Guna Seetharam " Point based interactive image segmentation using multiquadrics splines ", SPIE Defense, Security and Sensing, Anaheim, California, USA, April 2017, Proc of SPIE.
28. Javaria Ahmad, **Prakash Duraisamy**, Amr Yousef, Bill Buckles " Movie success prediction using data mining ", 8th ICCCNT IEEE Conference, IIT Delhi, Delhi, India, July 2017, Proc of IEEE.
29. **Prakash Duraisamy**, James Van Haneghan, William Blackwell, G.Murugesan, " Classroom engagement evaluation using computer vision techniques ", SPIE Defense, Security and Sensing, Baltimore, Maryland, USA, April 2019, Proc of SPIE.
30. **Prakash Duraisamy**, Ramya Gadaley, James Van Haneghan, Steve Jackson " Smaller Class Room Engagement using Appropriate Seating Arrangements ", 10th ICCCNT IEEE Conference, IIT Kanpur, Uttar Pradesh, India, July 2019, Proc of IEEE.
31. Chuyng Wang, Samuel Mondier, **Prakash Duraisamy**, " Art is Key to the Success of a Modern Game ", 10th ICCCNT IEEE Conference, IIT Kanpur, Uttar Pradesh, India, July 2019, Proc of IEEE.
32. Javaria Ahmad, Zachary Lewis, **Prakash Duraisamy**, Todd Mcdonald " Parking Lot Monitoring using MRCNN ", 10th ICCCNT IEEE Conference, IIT Kanpur, Uttar Pradesh, India, July 2019, Proc of IEEE.
33. **Prakash Duraisamy**, Ramya Gadaley, Steve Jackson" Human ear recognition using image registration ", SPIE Defense + Commercial Sensing, Anaheim, California, USA, April 2020, Proc of SPIE.
34. **Prakash Duraisamy**, James Van Haneghan, Ramya Gadaley, Steve Jackson" Classroom engagement evaluation using computer vision techniques by 360° view of the camera ", SPIE Defense + Commercial Sensing, Anaheim, California, USA, April 2020, Proc of SPIE.

35. Jude Thomas, **Prakash Duraisamy**” Online classroom engagement using using computer vision techniques ”, SPIE Defense + Commercial Sensing, Anaheim, California, USA, April 2020, Proc of SPIE.
36. **Prakash Duraisamy**, James Van Haneghan, Ramya Gadaley, Steve Jackson” Classroom engagement evaluation using computer vision techniques by 180° view of the camera ”, 2nd International Conference on Urban Intelligence and Applications 2020, Taiyuan, China, May 2020, Proc of Springer.
37. **Prakash Duraisamy**, James Van Haneghan, Ramya Gadaley, Steve Jackson ” Classroom engagement evaluation using computer vision techniques by 360° view of the camera”, 11th ICCCNT IEEE Conference, IIT Kharagpur, West Bengal, India, July 2020, Proc of IEEE.
38. Javaria Ahmad, **Prakash Duraisamy**, Ramya Gadaley ”Classroom engagement of underrepresented groups in STEM discipline ”, 11th ICCCNT IEEE Conference, IIT Kharagpur, West Bengal, India, July 2020, Proc of IEEE.
39. **Prakash Duraisamy** ” Ethics Awareness among STEM Disciplines - Statistical Approach ”, 11th ICCCNT IEEE Conference, IIT Kharagpur, West Bengal, India, July 2020, Proc of IEEE.
40. **Prakash Duraisamy**, James Van Haneghan, Ramya Gadaley, Steve Jackson” Classroom engagement evaluation using Deep Learning by Facial Gestures ”, 7th IEEE International Conference on Learning with MOOCS 2020, Antigua, Guatemala, October 2020, Proc of IEEE.

## Poster Presentations

1. **Prakash Duraisamy**, Mohamed S Alam, Steve Jackson, ”Error Correction in Image Registration using POCS”, SPIE Defense, Security and Sensing, Florida, USA, April 2011, Proc of SPIE Vol.8055.
2. **Prakash Duraisamy**, Belkhouche Yassine, Steve Jackson, Kamesh Namaduri, Bill Buckles,” Detection of Image Transformation for Reduced Error in 2-D Reconstruction”, IEEE, International Conference on Informatics, Electronics and Vision (ICIEV), Dhaka, Bangladesh, May 2012.
3. **Prakash Duraisamy**, Xiaohui Yuan, Aed El Saba, Sumithra Palanisamy, ”Contrast Enhancement and Assessment of OCT Images”, IEEE, International Conference on Informatics, Electronics and Vision (ICIEV), Dhaka, Bangladesh, May 2012.
4. Belkhouche Yassine, **Prakash Duraisamy**, Bill Buckles,” Ground Extraction from Terrestrial LiDAR Scans using 2D-3D Neighborhood Graphs”, Springer, International Symposium on Visual Computing, Las Vegas, Nevada, USA, December 2015.

## Grants

1. Center for Teaching and Learning’s Institutional Improvement Grant - University of Central Missouri - Fall 2016 - \$ 1,500

2. Center for Teaching and Learning's Travel Grant - University of Central Missouri - Fall 2016 - \$ 2,000
3. Center for Teaching and Learning's Speaker Series Grant - University of Central Missouri - Fall 2016 - \$ 1,000
4. Instructional Research and Development Grant - University of Central Missouri - Fall 2016 - \$ 3,000
5. Start Up Grant - University of South Alabama - Fall 2018 - \$ 20,000
6. Wells Fargo - Facilitating Access Computer Vision and Robotics to Underrepresented Groups - Fall 2019 - \$ 10,000

## Student's Projects

1. Capstone Project - CSE 448 - Fall 2015 - Spring 2016 - Quadcopter Project
2. Guiding Misty Robotics using Computer Vision - January 2019 - December 2020 - K12 Students Project for underrepresented groups

## Professional Experiences

1. Assistant Professor (August 2018- Present) University of South Alabama, Mobile, Alabama - 36688
2. Visiting Assistant Lecturer,(August 2017 - July 2018) Cleveland State University, Cleveland, Ohio - 44115
3. Assistant Professor,(August 2016 - May 2017) University of Central Missouri, Lees Summit, Missouri - 64086
4. Visiting Assistant Professor,(August 2015 - May 2016) Miami University, Oxford, Ohio - 45056
5. Lecturer,(August 2014 - May 2015) Rochester Institute of Technology, Rochester, New York - 14623
6. Research Affiliate, (January 2014 - January 2015), Massachusetts Institute of Technology, Cambridge - 02139
7. Adjunct Assistant Professor,(August 2013 - May 2014) Old Dominion University, Norfolk, Virginia - 23529
8. Post Doctoral Research Fellow, (May 2013 - July 2014) Old Dominion University Research Foundation, Norfolk, Virginia - 23529
9. Visiting Scientist, (January 2013 - January 2014), Massachusetts Institute of Technology, Cambridge - 02139

10. Graduate Research Assistant, (January 2009 - September 2012), University of North Texas, Denton, Texas - 76203.
11. Graduate Student Assistant, (August 2008 - December 2008), Wichita State University, Wichita, Kansas - 67208.
12. Graduate Teaching Assistant, (May 2007 - April 2008), University of South Alabama, Mobile, Alabama - 36688.
13. Lecturer, (July 2003 - August 2006), Bannari Amman Institute of Technology, Erode District, Tamil Nadu, India.
14. Lecturer, (June 2002 - July 2003), Maharaja Engineering College, Erode District, Tamil Nadu, India.

## Professional Activities

### Conference Organized

1. 1<sup>st</sup> International Conference on Computer, Communications and Networking (ICCCN), IEEE, Karur, India - Dec 18,19,20 (2008). - **Organizing Secretary International** (Conference Number - 15177)
2. 2<sup>nd</sup> International Conference on Computer, Communications and Networking Technologies (ICCCNT), IEEE, Karur, India - July 29,30,31 (2010). - **Organizing Secretary International** (Conference Number - 16764).
3. 3<sup>rd</sup> International Conference on Computer, Communications and Networking Technologies (ICCCNT), IEEE, Coimbatore, India - July 26,27,28 (2012). - **Organizing Secretary International** (Conference Number - 20180)
4. 1<sup>st</sup> International Conference on Optical Imaging, Sensor and Security (ICOSS), IEEE, Coimbatore, India - July 2, 3 (2013). - **Conference Co-chair**. (Conference Number - 31921)
5. 1<sup>st</sup> International Conference on Current Trends in Engineering and Technology (ICCTET), IEEE, Coimbatore, India - July 3 (2013). - **Conference Cochair**. (Conference Number - 32107)
6. 4<sup>th</sup> International Conference on Computer, Communications and Networking Technologies (ICCCNT), IEEE, Tiruchengode, India - July 4,5,6 (2013). - **Conference Cochair**. (Conference Number - 31661)
7. 1<sup>st</sup> International Conference on Computer Vision and Communication (ICCCV), IEEE, Coimbatore, India - December (2013).- **Conference Co-chair**. (Conference Number - 32205)
8. 2<sup>nd</sup> International Conference on Current Trends in Engineering and Technology (ICCTET), IEEE, Coimbatore, India - July 8 (2014). - **Conference Cochair**. (Conference Number - 33344)
9. 5<sup>th</sup> International Conference on Computer, Communications and Networking Technologies (ICCCNT), IEEE, Hefei, China - July 11,12,13 (2014). - **Conference Co-chair**. (Conference Number -33304)



10. 6<sup>th</sup> International Conference on Computer, Communications and Networking Technologies( ICCCNT), IEEE, Dallas-Fort Worth, U.S.A - July 13,14,15 (2015). - **Conference Co-chair**. (Conference Number -35239)
11. 7<sup>th</sup> International Conference on Computer, Communications and Networking Technologies( ICCCNT), IEEE, Dallas-Fort Worth, U.S.A - July 11,12,13 (2016). - **Conference Co-chair**. (Conference Number -37338)
12. 8<sup>th</sup> International Conference on Computer, Communications and Networking Technologies( ICCCNT), IEEE, IIT Delhi, Delhi, India- July 3,4,5 (2017). - **Conference Co-chair**. (Conference Number -40222)
13. 9<sup>th</sup> International Conference on Computer, Communications and Networking Technologies( ICCCNT), IEEE, IISc Bangalore, Karnataka, India - July 10,11,12 (2018). - **Conference Chair**. (Conference Number - 43488)
14. 10<sup>th</sup> International Conference on Computer, Communications and Networking Technologies( ICCCNT), IEEE, IIT Kanpur, Uttar Pradesh, India - July 6,7,8 (2019). - **Conference Chair**. (Conference Number -45670)
15. 11<sup>th</sup> International Conference on Computer, Communications and Networking Technologies( ICCCNT), IEEE, IIT Kharagpur, West Bengal, India - July 1,2,3 (2020). - **Conference Co-chair**. (Conference Number -49239)

#### Guest Editor - Journal

1. Special Issue - Amercian Journal of Science and Engineering - Vol. 2, No. 1, 2013 .

#### Reviewer - Journal

1. SPIE - Journal of Applied Remote Sensing - July 2013.
2. Journal of Healthcare Engineering - Aug 2013.
3. SPIE - Journal of Applied Remote Sensing - April 2014.
4. SPIE - Journal of Optical Engineering - July 2014
5. IJWMIP - International Journal of Wavelets, Multiresolution and Information Processing - October 2014
6. SPIE - Journal of Applied Remote Sensing - October 2014.
7. IEEE Transaction of Image Processing - December 2018
8. Image and Vision Computing - Jan 2019
9. ISPRS Journal of Photogrammetry and Remote Sensing - March 2019
10. IJCIS - August 2019

11. Acta Polytechnica - October 2019

## Professional Member

### **SPIE # 3262608**

1. Student Member - 2009 - 2013
2. Early Career Professional - 2013 - 2015
3. Regular Member - 2015 - till date

### **IEEE # 90565180**

1. Student Member - 2011 - 2012
2. Regular Member - 2012 - Feb 2020
3. Senior Member - March 2020 - till date

### **IEEE Society Memberships**

- IEEE Computer Society Membership - 2012 - Present
- IEEE Young Professionals - 2014 - Present
- IEEE Computational Intelligence Society Membership - 2018-Present
- IEEE Systems Council Membership - 2018 - Present
- IEEE Education Society Membership - Jan 2020 - Present
- IEEE Robotics and Automation Society Membership - Jan 2020 - Present

### **ACM # 2369146**

1. Regular Member - 2016 - Present

## Technical Skills

### Programming Languages

- C, C++

### Specialized Software

- MATLAB