

## PUBLICATIONS SUMMARY

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Category	Published/ Accepted	Under Review/ Revision
Refereed Journal Papers	92	10
Refereed Conference Papers	53	06
International Book Chapters	07	00
Total	152	16

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## LIST OF REPRESENTATIVE PUBLICATIONS

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### A. Refereed International Journal Papers: Q1

1. Debanjan Sadhya, Kanjar De, **Balasubramanian Raman** and Partha Pratim Roy, Development of a clustering based fusion framework for locating the most consistent IrisCodes bits, *Information Sciences (Elsevier)*, **Vol. 491**, pp. 1-15, 2019.
2. Debanjan Sadhya and **Balasubramanian Raman**, Generation of Cancelable Iris Templates via Randomized Bit Sampling, Accepted for Publication in *IEEE Transactions on Information Forensics and Security*, 2019.
3. Priyanka Singh, Nishant Agarwal and **Balasubramanian Raman**, Secure Data Deduplication using Secret Sharing Schemes over Cloud, *Future Generation Computer Systems (Elsevier)*, **Vol. 88**, pp. 156-167, 2018.
4. Rajkumar Saini, Barjinder Kaur, Priyanka Singh, Pradeep Kumar, Partha Pratim Roy, **Balasubramanian Raman** and Dinesh Singh, Dont Just Sign Use Brain Too: A Novel Multimodal Approach for User Identification and Verification, *Information Sciences (Elsevier)*, **Vols. 430-431**, pp. 163-178, 2018.
5. Priyanka Singh and **Balasubramanian Raman**, Reversible Data Hiding Based on Shamir's Secret Sharing for Color Images over Cloud, *Information Sciences (Elsevier)*, **Vol. 422**, pp. 77-97, 2018.
6. Priyanka Singh, **Balasubramanian Raman** and Manoj Misra, A (n, n) Threshold Non-expansible XOR based Visual Cryptography with Unique Meaningful Shares, *Signal Processing (Elsevier)*, **Vol. 142**, pp. 301-319, 2018.
7. Priyanka Singh, **Balasubramanian Raman** and Nishant Agarwal, Towards Encrypted Video Tampering Detection and Localization Based on POB Number System Over Cloud, *IEEE Transactions on Circuits and Systems for Video Technology*, **Vol.28**, no.9, pp.2116 - 2130, 2018.
8. Priyanka Singh, **Balasubramanian Raman**, Nishant Agarwal and Pradeep Atrey, Secure Cloud based Image Tampering Detection and Localization using POB Number System, *ACM Transactions on Multimedia Computing Communications and Applications*, **Vol. 13**, No. 3, Article 23, 2017.
9. Himaanshu Gauba, Pradeep Kumar, Partha Pratim Roy, Priyanka Singh, Debi Prosad Dogra and **Balasubramanian Raman**, Prediction of Advertisement Preference by Fusing EEG Response and Sentiment Analysis, *Neural Networks (Elsevier)*, **Vol. 92**, pp. 77-88, 2017.
10. Bhavik Patel, R.P. Maheshwari and **Balasubramanian Raman**, Compass local binary patterns for gender recognition of facial photographs and sketches, *Neurocomputing (Elsevier)*, **Vol. 218**, pp. 203-215, 2016.

11. Manisha Verma, **Balasubramanian Raman** and Subrahmanyam Murala, Local Extrema Co-occurrence Pattern for Color and Texture Image Retrieval, *Neurocomputing (Elsevier)*, **Vol. 165**, pp 255-269, 2015.
12. Sanoj Kumar, Sanjeev Kumar, N. Sukavanam and **Balasubramanian Raman**, Dual Tree Fractional Quaternion Wavelet Transform for Disparity Estimation, *ISA Transactions (Elsevier)*, **Vol. 53**, No. 2, pp 547-559, 2014.
13. Gaurav Bhatnagar, Jonathan Wu and **Balasubramanian Raman**, Discrete Fractional Wavelet Transform and its Application to Multiple Encryption, *Information Sciences (Elsevier)*, **Vol. 223**, No. 2013, pp. 297-316, 2013.
14. Subrahmanyam Murala, R. P. Maheshwari and **R. Balasubramanian**, Local Tetra Patterns: A New Feature Descriptor for Content Based Image Retrieval, *IEEE Transactions on Image Processing*, **Vol. 21**, No. 5, pp. 2874-2886, 2012.
15. Sanjay Rawat and **Balasubramanian Raman**, A blind watermarking algorithm based on fractional Fourier transform and visual cryptography, *Signal Processing (Elsevier)*, **Vol. 92**, No. 6, pp. 1480-1491, 2012.
16. Subrahmanyam Murala, R. P. Maheshwari and **R. Balasubramanian**, Local Maximum Edge Binary Patterns: A New Descriptor for Image Retrieval and Object Tracking, *Signal Processing (Elsevier)*, **Vol. 92**, No. 6, pp. 1467-1479, 2012.
17. Subrahmanyam Murala, R. P. Maheshwari and **R. Balasubramanian**, Expert System Design Using Wavelet and Color Vocabulary Trees for Image Retrieval, *Expert Systems With Applications (Elsevier)*, **Vol. 39**, No. 5, pp. 5104-5114, 2012.
18. Gaurav Bhatnagar, Jonathan Wu and **Balasubramanian Raman**, Fractional Dual Tree Complex Wavelet Transform and its Application to Biometric Security during Communication and Transmission, *Future Generation Computer Systems (Elsevier)*, **Vol. 28**, No. 1, pp. 254-267, 2012.
19. Gaurav Bhatnagar, Q.M. Jonathan Wu and **Balasubramanian Raman**, A new Fractional Random Wavelet Transform for Fingerprint Security, *IEEE Transactions on Systems, Man and Cybernetics Part-A: Systems and Humans*, **Vol. 42**, No. 1, pp. 262-275, 2012.

## **B. Refereed International Journal Papers: Q2**

20. Pradeep Kumar, Partha Pratim Roy, Anshul Mittal, **Balasubramanian Raman** and Bidyut B. Chaudhuri, A Modified-LSTM Model for Continuous Sign Language Recognition using Leap motion, Accepted for publication in *IEEE Sensors Journal*, 2019.
21. Priyanka Singh, **Balasubramanian Raman** and Manoj Misra, A Secure Image Sharing Scheme based on SVD and Fractional Fourier Transform, *Signal Processing: Image Communication (Elsevier)*, **Vol. 57**, pp. 46-59, 2017.
22. Bhavik Patel, R.P. Maheshwari and **Balasubramanian Raman**, Evaluation of periocular features for kinship verification in the wild, *Computer Vision and Image Understanding (Elsevier)*, **Vol. 160**, pp. 24-35, 2017.
23. Priyanka Singh and **Balasubramanian Raman**, Reversible Data Hiding for Rightful Ownership Assertion in Encrypted Domain over Cloud, *AEU - International Journal of Electronics and Communications (Elsevier)*, **Vol. 76**, pp. 18-35, 2017.
24. Anshul Mittal, Partha Pratim Roy, Priyanka Singh and **Balasubramanian Raman**, Rotation and Script Independent Text Detection from Video Frames using Sub Pixel Mapping, *Journal of Visual Communication and Image Representation (Elsevier)*, **Vol. 46**, pp. 187-198, 2017.

25. Manisha Verma and **Balasubramanian Raman**, Local Tri-Directional Patterns: A New Texture Feature Descriptor for Image Retrieval, *Digital Signal Processing (Elsevier)*, **Vol. 51**, pp. 62-72, 2016.
26. Manisha Verma and **Balasubramanian Raman**, Center Symmetric Local Binary Co-occurrence Pattern for Texture, Face and Bio-medical Image Retrieval, *Journal of Visual Communication and Image Representation (Elsevier)*, **Vol. 32**, pp. 224-236, 2015.
27. Sanoj Kumar, Sanjeev Kumar, N. Sukavanam and **Balasubramanian Raman**, Human Visual System and Segment-Based Disparity Estimation, *AEU - International Journal of Electronics and Communications (Elsevier)*, **Vol. 67**, No. 5, pp. 372-381, 2013.
28. Anil Balaji Gonde, R. P. Maheshwari and **R. Balasubramanian**, Modified Curvelet Transform with Vocabulary Tree for Content Based Image Retrieval, *Digital Signal Processing (Elsevier)*, **Vol. 23**, No. 1, pp. 142-150, 2013.
29. Sanjay Rawat and **Balasubramanian Raman**, A publicly verifiable lossless watermarking scheme for copyright protection and ownership assertion, *AEU - International Journal of Electronics and Communications (Elsevier)*, **Vol. 66**, No. 11, pp. 955-962, 2012.
30. Sanjay Rawat and **Balasubramanian Raman**, Best tree wavelet packet transform based copyright protection scheme for digital images, *Optics Communications (Elsevier)*, **Vol. 285**, No. 10-11, pp. 2563-2574, 2012.
31. Gaurav Bhatnagar, Jonathan Wu and **Balasubramanian Raman**, A new Robust Adjustable Logo Watermarking Scheme, *Computers & Security (Elsevier)*, **Vol. 31**, No. 1, pp. 40-58, 2012.
32. Sanjay Rawat and **Balasubramanian Raman**, A chaotic system based fragile watermarking scheme for image tamper detection, *AEU - International Journal of Electronics and Communications (Elsevier)*, **Vol. 65**, No. 10, pp. 840-847, 2011.
33. Nidhi Taneja, **Balasubramanian Raman**, and Indra Gupta, Selective Image Encryption in Fractional Wavelet Domain, *AEU - International Journal of Electronics and Communications (Elsevier)*, **Vol. 65**, No. 4, pp. 338-344, 2011.
34. Yatharth Saraf, **Balasubramanian Raman** and Krishnan Swaminathan, Computing the Curve-Skeletons of Images, *International Journal of Computer Mathematics (Taylor and Francis)*, **Vol. 85**, No. 2, pp.253-270, 2008.
35. N. Sukavanam, **R. Balasubramanian** and Sanjeev Kumar, Error estimation in reconstruction of quadratic curves in 3-D space, *International Journal of Computer Mathematics (Taylor and Francis)*, **Vol. 84**, No. 1, pp. 121-132, 2007.
36. Yatharth Saraf, **R. Balasubramanian** and K. Swaminathan, A classical approach for thinning of binary images using divergence of the potential field, *International Journal of Computer Mathematics (Taylor and Francis)*, **Vol. 82**, No.6, pp. 673-684, 2005.
37. **R. Balasubramanian**, Sukhendu Das and K. Swaminathan, Simulation studies for the performance analysis of the reconstruction of a line in 3-D from two arbitrary perspective views using two plane intersection method, *International Journal of Computer Mathematics (Taylor and Francis)*, **Vol. 80**, No.5, pp. 559-571, 2003.
38. **R. Balasubramanian**, Sukhendu Das, S. Udayabaskaran and K. Swaminathan, Quantization error in stereo imaging systems, *International Journal of Computer Mathematics (Taylor and Francis)*, **Vol. 79**, No.6, pp. 671-691, 2002.
39. **R. Balasubramanian**, Sukhendu Das and K. Swaminathan, Error Analysis in reconstruction of a line in 3-D space from two arbitrary perspective views, *International Journal of Computer Mathematics (Taylor and Francis)*, **Vol. 78**, No.2, pp. 191-212, 2001.

### C. Refereed International Journal Papers: Q2 and Q3

40. Arun Singh Pundir and **Balasubramanian Raman**, Dual Deep Learning Model for Image Based Smoke Detection, Accepted for publication in *Fire Technology (Springer)*, 2019.
41. Rahul Nijhawan, Josodhir Das and **Balasubramanian Raman**, A Hybrid of Deep Learning and Hand-Crafted Features based Approach for Snow Cover Mapping, *International Journal of Remote Sensing (Taylor & Francis)*, Available online 20 September 2018, <https://doi.org/10.1080/01431161.2018.1519277>, 2018.
42. Debashis Sen, Samyak Dutta and **Balasubramanian Raman**, Facial Emotion Classification using Concatenated Geometric and Textural Features, *Multimedia Tools and Applications (Springer)*, Available online 5 September 2018, pp. 1-37, <https://doi.org/10.1007/s11042-018-6537-9>, 2018.
43. Vishesh Tanwar, Himanshu Buckchash, **Balasubramanian Raman** and Rama Bhargava, Dense Motion Analysis of German Finger Spellings, *Multimedia Tools and Applications (Springer)*, Available online 24 August 2018, pp 1-26, <https://doi.org/10.1007/s11042-018-6533-0>, 2018.
44. Anjali Gautam and **Balasubramanian Raman**, Segmentation of Ischemic Stroke Lesion from 3D MR Images using Random Forest, *Multimedia Tools and Applications (Springer)*, Available online 24 July 2018, pp 1-21, <https://doi.org/10.1007/s11042-018-6418-2>, 2018.
45. Priyanka Singh, Partha Pratim Roy and **Balasubramanian Raman**, Writer Identification using Texture Features: A comparative study, *Computers and Electrical Engineering (Elsevier)*, **Vol. 71**, pp. 1-12, 2018.
46. Amitesh Rajput and **Balasubramanian Raman**, CryptoCT: Towards Privacy Preserving Color Transfer and Storage over Cloud, *Multimedia Tools and Applications (Springer)*, **Vol. 77**, No. 18, pp. 24223-24245, 2018.
47. Amitesh Rajput and **Balasubramanian Raman**, Cloud Based Image Color Transfer and Storage in Encrypted Domain, *Multimedia Tools and Applications (Springer)*, **Vol. 77**, No. 16, pp 21509-21537, 2018.
48. Priyanka Singh, **Balasubramanian Raman** and Manoj Misra, Just Process Me, Without Knowing Me: A Secure Encrypted Domain Processing based on Shamir Secret Sharing and POB Number System, *Multimedia Tools and Applications (Springer)*, **Vol. 77**, No. 10, pp. 12581-12605, 2018.
49. Manisha Verma and **Balasubramanian Raman**, Local Neighborhood Difference Pattern: A New Feature Descriptor for Natural and Textural Image Retrieval, *Multimedia Tools and Applications (Springer)*, **Vol. 77**, No. 10, pp. 11843-11866, 2018.
50. Ayan Bhunia, Gautam Kumar, Partha Pratim Roy, **Balasubramanian Raman** and Umapada Pal, Text Recognition in Scene Image and Video Frame using Color Channel Selection, *Multimedia Tools and Applications (Springer)*, **Vol. 77**, No. 7, pp. 8551-8578, 2018.
51. Arun Singh Pundir and **Balasubramanian Raman**, Deep Belief Network for Smoke Detection, *Fire Technology (Springer)*, **Vol. 53**, No.6, pp. 1943-1960, 2017.
52. Priyanka Singh and **Balasubramanian Raman**, A Secured Robust Watermarking Scheme Based on Majority Voting Concept for Rightful Ownership Assertion, *Multimedia Tools and Applications (Springer)*, **Vol. 76**, No. 20, pp. 21497-21517, 2017.
53. Asha Rani and **Balasubramanian Raman**, An image copyright protection system using chaotic maps, *Multimedia Tools and Applications (Springer)*, **Vol. 76**, No. 2, pp. 3121-3138, 2017.
54. Priyanka Singh, **Balasubramanian Raman** and Partha Pratim Roy, A Multimodal Biometric Watermarking System for Digital Images in Redundant Discrete Wavelet Transform, *Multimedia Tools and Applications (Springer)*, **Vol. 76**, No. 3, pp. 3871-3897, 2017.

55. Bhavik Patel, R P Maheshwari and **Balasubramanian Raman**, Multi-quantized local binary patterns for facial gender classification, *Computers and Electrical Engineering (Elsevier)*, **Vol. 54**, pp. 271-284, 2016.
56. Tasneem Ahmed, Dharmendra Singh, Shweta Gupta and **Balasubramanian Raman**, Efficient Application of Fusion approach for Hotspot Detection with MODIS and PALSAR-1 Data, *Geocarto International (Taylor and Francis)*, **Vol. 31**, No. 7, pp. 715-738, 2016.
57. Himanshu Agarwal, Debashis Sen, **Balasubramanian Raman** and Mohan Kankanhalli, Visible Watermarking based on Importance and Just Noticeable Distortion of Image Regions, *Multimedia Tools and Applications (Springer)*, **Vol. 75**, No. 13, pp. 7605-7629, 2016.
58. Asha Rani and **Balasubramanian Raman**, An image copyright protection scheme by encrypting secret data with the host image, *Multimedia Tools and Applications (Springer)*, **Vol. 75**, No. 2, pp. 1027-1042, 2016.
59. Himanshu Agarwal, Pradeep Atrey and **Balasubramanian Raman**, Image Watermarking in Real Oriented Wavelet Transform Domain, *Multimedia Tools and Applications (Springer)*, **Vol. 74**, No. 23, 10883-10921, 2015.
60. Himanshu Agarwal, **Balasubramanian Raman** and Ibrahim Venkat, Blind reliable invisible watermarking method in wavelet domain for face image watermark, *Multimedia Tools and Applications (Springer)*, **Vol. 74**, No. 17, pp 6897-6935, 2015.
61. Asha Rani, **Balasubramanian Raman** and Sanjeev Kumar, A Robust Watermarking Scheme Exploiting Balanced Neural Tree for Rightful Ownership Protection, *Multimedia Tools and Applications (Springer)*, **Vol. 72**, No. 3, pp. 2225-2248, 2014.
62. Subrahmanyam Murala, Q M Jonathan Wu, R P Maheshwari and **R Balasubramanian**, Modified Color Motif Co-Occurrence Matrix for Image Indexing and Retrieval, *Computers & Electrical Engineering (Elsevier)*, **Vol. 39**, No. 3, pp. 762-774, 2013.
63. Nidhi Taneja, Gaurav Bhatnagar, **Balasubramanian Raman** and Indra Gupta, Joint Watermarking and Encryption for Still Visual Data, *Multimedia Tools and Applications (Springer)*, **Vol. 67**, No. 3, pp. 593-606, 2013.
64. Gaurav Bhatnagar, Q.M. Jonathan Wu and **Balasubramanian Raman**, A new Aspect in Robust Digital Watermarking, *Multimedia Tools and Applications (Springer-Verlag)*, **Vol. 66**, No. 2, pp. 179-200, 2013.
65. Gaurav Bhatnagar, Jonathan Wu and **Balasubramanian Raman**, Robust Gray-scale Logo Watermarking in Wavelet Domain, *Computers & Electrical Engineering (Elsevier)*, **Vol. 38**, No. 5, pp. 1164-1176, 2012.
66. Subrahmanyam Murala, R. P. Maheshwari and **R. Balasubramanian**, Directional Binary Wavelet Patterns for Biomedical Image Indexing and Retrieval, *Journal of Medical Systems (Springer)*, **Vol. 36**, No. 5, pp. 2865-2879, 2012.
67. Nidhi Taneja, **Balasubramanian Raman** and Indra Gupta, Chaos based cryptosystem for still visual data, *Multimedia Tools and Applications (Springer-Verlag)*, **Vol. 61**, No. 2, pp. 281-298, 2012.
68. Nidhi Taneja, **Balasubramanian Raman** and Indra Gupta, Combinational Domain Encryption for Still Visual Data, *Multimedia Tools and Applications (Springer-Verlag)*, **Vol. 59**, No. 3, pp. 775-793, 2012.
69. Gaurav Bhatnagar and **Balasubramanian Raman**, A new Robust Reference Logo Watermarking Scheme, *Multimedia Tools and Applications (Special Issue on Data Hiding for Multimedia Security, Springer-Verlag)*, **Vol. 52**, No. 2, pp. 621-640, 2011.

70. Gaurav Bhatnagar and **Balasubramanian Raman**, A new Robust Reference Watermarking Scheme based on DWT-SVD, *Computer Standards and Interfaces (Elsevier)*, **Vol. 31**, No. 5, pp. 1002-1013, 2009.

#### D. Refereed International Journal Papers: Q3

71. Amit Kumar, **Balasubramanian Raman** and Debanjan Sadhya, Dynamic Texture recognition using Local Tetra Pattern - Three Orthogonal Planes (LTrP-TOP), Accepted for publication in *The Visual Computer (Springer)*, 2019.
72. Javed Imran and **Balasubramanian Raman**, Evaluating Fusion of RGB-D and Inertial Sensors for Multimodal Human Action Recognition, Accepted for publication in *Journal of Ambient Intelligence and Humanized Computing (Springer)*, 2019.
73. Priyanka Singh, **Balasubramanian Raman** and Partha Pratim Roy, Detection of Seal and Signature Entities with Hierarchical Recovery based on Watermark Self Embedding in Tampered Digital Documents, *Displays (Elsevier)*, Available online 18 September 2018, <https://doi.org/10.1016/j.displa.2018.09.004>, 2018.
74. Anjali Gautam, **Balasubramanian Raman** and Shailendra Raghuvanshi, A Hybrid Approach for the Delineation of Brain Lesion from CT Images, *Biocybernetics and Biomedical Engineering (Elsevier)*, **Vol. 38**, No.3, pp. 504-518, 2018.
75. Pushpendra Kumar, Sanjeev Kumar and **Balasubramanian Raman**, A fractional order variational model for the robust estimation of optical flow from image sequences, *Optik - International Journal for Light and Electron Optics (Elsevier)*, **Vol. 127**, No. 20, pp. 8710-8727, 2016.
76. Madhumanti Dey, **Balasubramanian Raman** and Manisha Verma, A novel colour and texture based image retrieval technique using multi-resolution local extrema peak valley pattern and RGB colour histogram, *Pattern Analysis and Applications (Springer)*, **Vol. 19**, No. 4, pp. 1159-1179, 2016.
77. Gaurav Bhatnagar, Jonathan Wu and **Balasubramanian Raman**, Image and Video Encryption based on Dual Space Filling Curve, *The Computer Journal (Oxford Press)*, **Vol. 55**, No. 6, pp. 667-685, 2012.
78. Gaurav Bhatnagar, **Balasubramanian Raman** and Q.M. Jonathan Wu, Robust watermarking using fractional wavelet packet transform, *IET Image Processing*, **Vol. 6**, No. 4, pp. 386-397, 2012.
79. N. Cornea, D. Silver, X. Yuan and **R. Balasubramanian**, Computing Hierarchical Curve-Skeletons of 3D Objects, *The Visual Computer (Springer)*, **Vol. 21**, No. 11, pp. 945-955, 2005.
80. **R. Balasubramanian**, Sukhendu Das and K. Swaminathan, Reconstruction of quadratic curves in 3-D from two or more perspective views, *Mathematical problems in Engineering (Taylor and Francis, Now Hindawi)*, **Vol. 8**, No.3, pp. 207-219, 2002.

#### E. Other SCI Journals

81. Rahul Nijhawan, Josodhir Das and **Balasubramanian Raman**, A Hybrid CNN+Random Forest Approach to Delineate Debris Covered Glaciers using Deep Features, *Journal of the Indian Society of Remote Sensing (Springer)*, **Vol. 46**, No.6, pp. 981-989, 2018.
82. Rahul Nijhawan, **Balasubramanian Raman** and Josodhir Das, Proposed Hybrid-Classifer Ensemble Algorithm to Map Snow Cover Area, *Journal of Applied Remote Sensing (SPIE)*, 016003, doi:10.1117/1.JRS.12.016003, 2018.

83. Tasneem Ahmed, Dharmendra Singh and **Balasubramanian Raman**, A Potential Application of KLT Tracker on Satellite Images for Automatic Change Detection, *Journal of Applied Remote Sensing (SPIE)*, **Vol. 10**, No.2, 026018, 2016.
84. Prabhu Natarajan, Manoj Arora and **Balasubramanian Raman**, Wavelet Based Feature Extraction Techniques of Hyperspectral Data, *Journal of the Indian Society of Remote Sensing (Springer)*, **Vol. 44**, No. 3, pp. 373-384, 2016.
85. Kusum Deep, Madhuri Arya, Manoj Thakur and **Balasubramanian Raman**, Stereo camera calibration using particle swarm optimization, *Applied Artificial Intelligence (Taylor and Francis)*, **Vol. 27**, No. 7, pp. 618-634, 2013.
86. Sanoj Kumar, Sanjeev Kumar, **Balasubramanian Raman** and N. Sukavanam, An Efficient Disparity Estimation Using Fractional Dual-Tree Complex Wavelet Transform: A Multiscale Approach, *International Journal of Wavelets, Multiresolution and Information Processing (World Scientific)*, **Vol. 11**, No. 1, 1350004 (21 pages), 2013.
87. Gaurav Bhatnagar and **Balasubramanian Raman**, Wavelet Packet Transform based Robust Video Watermarking Technique, *Sadhana: Academy Proceedings in Engineering Sciences (Springer)*, **Vol. 37**, No. 3, pp. 371-388, 2012.
88. Nidhi Taneja, **Balasubramanian Raman** and Indra Gupta, Chaos based partial encryption of SPIHT Compressed Images, *International Journal of Wavelets, Multiresolution and Information Processing (World Scientific)*, **Vol. 9**, No. 2, pp. 317-331, 2011.
89. Gaurav Bhatnagar, Jonathan Wu and **Balasubramanian Raman**, A robust security framework for 3D images, *Journal of Visualization (Springer-Verlag)*, **Vol. 14**, No. 1, pp. 85-93, 2011.
90. Gaurav Bhatnagar and **Balasubramanian Raman**, Distributed Multiresolution Discrete Fourier Transform and its Application to Watermarking, *International Journal of Wavelets, Multiresolution and Information Processing (World Scientific)*, **Vol. 8**, No. 2, pp. 225-241, 2010.
91. Gaurav Bhatnagar, Sanjeev Kumar, **Balasubramanian Raman** and N. Sukavanam, Stereo Image Coding via Digital Watermarking, *Journal of Electronic Imaging (IS&T and SPIE)*, **Vol. 18**, No. 3, 033012, 2009.
92. Gaurav Bhatnagar, R. Jayaganthan and **Balasubramanian Raman**, Wavelet Analysis of Surface Morphologies of Magnetron Sputtered Al-Cu thin films, *International Journal of Wavelets, Multiresolution and Information Processing (World Scientific)*, **Vol. 7**, No. 1, pp. 59-74, 2009.

#### **F. Books Edited:**

1. Bidyut B. Chaudhuri, Mohan S. Kankanhalli and **Balasubramanian Raman**, Proceedings of 2nd International Conference on Computer Vision & Image Processing - CVIP 2017, Volumes 1 and 2, Springer *Advances in Intelligent Systems and Computing*, Series **Volumes 703 and 704**, 2018.
2. **Balasubramanian Raman**, Sanjeev Kumar, Partha Pratim Roy and Debashis Sen, Proceedings of International Conference on Computer Vision and Image Processing: CVIP 2016, Volumes 1 and 2, Springer *Advances in Intelligent Systems and Computing*, Series **Volumes 459 and 460**, 2017.
3. Dharm Singh, **Balasubramanian Raman**, Ashish Kumar Luhach and Pawan Lingras, Proceedings of *First International Conference on Advanced Informatics for Computing Research 2017*, Series **Volume 712**, Springer *Advanced Informatics for Computing Research*, 2017.

## G. Book Chapters:

1. Gaurav Bhatnagar and **Balasubramanian Raman**, Encryption based Robust Watermarking in Fractional Wavelet Domain, *Recent Advances in Multimedia Signal Processing and Communications*, **Vol. 231**, Springer Verlag (Berlin Heidelberg) in the series “*Studies in Computational Intelligence*”, Mislav Grgic, Kresimir Delac, Mohammed Ghanbari (Editors), ISBN: 978-3-642-02899-1, pp. 375-416, 2009.
2. Nidhi S Kulkarni, **Balasubramanian Raman** and Indra Gupta, Multimedia Encryption: A brief Overview, *Recent Advances in Multimedia Signal Processing and Communications*, **Vol. 231**, Springer Verlag (Berlin Heidelberg) in the series “*Studies in Computational Intelligence*”, Mislav Grgic, Kresimir Delac, Mohammed Ghanbari (Editors), ISBN: 978-3-642-02899-1, pp. 417-449, 2009.
3. Sanjeev Kumar and **Balasubramanian Raman**, Invariant Features Based Stereo Image Watermarking, *Recent Advances in Multimedia Signal Processing and Communications*, **Vol. 231**, Springer Verlag (Berlin Heidelberg) in the series “*Studies in Computational Intelligence*”, Mislav Grgic, Kresimir Delac, Mohammed Ghanbari (Editors), ISBN: 978-3-642-02899-1, pp. 467-493, 2009.
4. Gaurav Bhatnagar, Q.M. Jonathan Wu and **Balasubramanian Raman**, Distributed Multiresolution Transform Based Framework for Watermarking, *Information Technology for Intellectual Property Protection: Interdisciplinary Advancements*, IGI Global, pp. 1-29, doi:10.4018/978-1-61350-135-1.ch001, 2012.
5. Sanjeev Kumar, Christian Micheloni and **Balasubramanian Raman**, Multiresolution Depth Map Estimation in PTZ Camera Network, *Intelligent Multimedia Surveillance: Current Trends and Research (Springer)*, P. Atrey, M. Kankanhalli and Andrea Cavallaro (Editors), ISBN: 978-3-642-41511-1pp. 149-169, 2013.
6. Nidhi Goel, **Balasubramanian Raman** and Indra Gupta, Mobile Worms and Viruses, *Information Security in Diverse Computing Environments*, IGI Global, pp. 206-229, DOI: 10.4018/978-1-4666-6158-5.ch011, 2014.
7. Amitesh Rajput and **Balasubramanian Raman**, Example Based Privacy-Preserving Video Color Grading, Accepted for publication in *Handbook of Multimedia Information Security: Techniques and Applications (HMIS)*, Springer, 2018.

## H. Refereed International Conference Papers appear in Proceedings:

1. Amitesh Rajput and **Balasubramanian Raman**, Privacy-preserving smart surveillance using local color correction and optimized ElGamal cryptosystem over cloud, Accepted for publication in *IEEE International Conference on Cloud Computing (IEEE Cloud 2019)*, July 08-13, 2019, Milan, ITALY.
2. Debanjan Sadhya, Akshay Agarwal and **Balasubramanian Raman**, Perfectly Secure Shamir’s Secret Sharing Scheme for Privacy Preserving Image Processing Over Cloud, Accepted for publication in *11th Indian Conference on Computer Vision, Graphics and Image Processing (ICVGIP’18)*, December 18-22, 2018, Hyderabad, INDIA.
3. Javed Imran and **Balasubramanian Raman**, Multimodal Egocentric Activity Recognition Using Multi-Stream CNN, Accepted for publication in *11th Indian Conference on Computer Vision, Graphics and Image Processing (ICVGIP’18)*, December 18-22, 2018, Hyderabad, INDIA.
4. Gaurav Bhatt, Akshita Gupta, Aditya Arora and **Balasubramanian Raman** Acoustic Features Fusion using Attentive Multi-channel Deep Architecture, *CHiME 2018, the 5th International Workshop on Speech Processing in Everyday Environments*, pp. 30-34, 07 September 2018, Hyderabad, INDIA.



5. Vishesh Kumar Tanwar, Amitesh Singh Rajput, **Balasubramanian Raman** and Rama Bhargava, Privacy Preserving Image Scaling using 2D Bicubic Interpolation over the Cloud, Accepted for publication in *IEEE International Conference on Systems, Man, and Cybernetics (SMC 2018)*, October 7-10, 2018, Miyazaki, JAPAN.
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