PUBLICATIONS SUMMARY

Category	Published/ Accepted	Under Review/ Revision
Refereed Journal Papers	117	10
Refereed Conference Papers	63	06
International Book Chapters	07	00
Total	187	16

LIST OF REPRESENTATIVE PUBLICATIONS

A. Refereed International Journal Papers: Q1

1. Amitesh Singh Rajput, Vishesh Kumar Tanwar and **Balasubramanian Raman**, Z-score based secure biomedical model for effective skin lesion segmentation over eHealth cloud, ***ACM Transactions on Multimedia Computing, Communications and Applications***, 2020.

2. Sahil Garg, Song Guo, Vincenzo Piuri, Kim-Kwang Raymond Choo and **Balasubramanian Raman**, Edge-Cloud Interplay Based on SDN and NFV for Next-Generation IoT Applications, *IEEE Internet of Things Journal*, **Vol. 7**, No. 7, pp. 5690-5694, 2020.

3. Rahul Kumar, **Balasubramanian Raman** and Brajesh Kumar Kaushik, Efficient Method and Architecture for Real-Time Video Defogging, Accepted for Publication in ***IEEE Transactions on Intelligent Transportation Systems***, 2020.

4. Rahul Kumar, Ankur Gupta, Harkirat Singh Arora, Ganesh N. Pandian and **Balasubramanian Raman**, CGHF: A Computational Decision Support System for Glioma Classification Using Hybrid Radiomics-and Stationary Wavelet-Based Features, *IEEE Access*, **Vol. 8**, pp. 79440-79458, 2020.

5. Himanshu Buckchase and **Balasubramanian Raman**, Variational Conditioning of Deep Recurrent Networks for Modeling Complex Motion Dynamics, *IEEE Access*, **Vol. 8**, pp. 67822-67834, 2020.

6. Amitesh Rajput, **Balasubramanian Raman** and Javed Imran, Privacy-preserving human action recognition as a remote cloud service using RGB-D sensors and deep CNN, *Expert Systems with Applications* (*Elsevier*), **Vol. 152**, 113349, 2020.

7. Sibi Chakkaravarthy S, D. Sangeetha, Meenalosini Vimal Cruz, V. Vaidehi and **Balasubramanian Raman**, Design of Intrusion Detection Honeypot using Social Leopard Algorithm to detect IoT ransomware attacks, Accepted for Publication in *IEEE Access*, 2020.

8. Vishesh Tanwar, **Balasubramanian Raman**, Amitesh Rajput and Rama Bhargava, CryptoLesion: A Privacy-preserving Model for Lesion Segmentation using Whale Optimization over Cloud, Accepted for publication in ***ACM Transactions on Multimedia Computing Communications and Applications***, 2020.

9. Ankur Gupta, Rahul Kumar, Harkirat Singh Arora and **Balasubramanian Raman**, MIFH : A Machine Intelligence Framework for Heart Disease Diagnosis, *IEEE Access*, DOI: 10.1109/ACCESS.2019.2962755, pp. 1-16, 2019.

10. Javed Imran and **Balasubramanian Raman**, Evaluating Fusion of RGB-D and Inertial Sensors for Multimodal Human Action Recognition, *Journal of Ambient Intelligence and Humanized Computing* (*Springer*), https://doi.org/10.1007/s12652-019-01239-9, pp. 1-20, 2019.

11. Debanjan Sadhya, Kanjar De, **Balasubramanian Raman** and Partha Pratim Roy, Efficient Extraction of Consistent Bit Locations from Binarized Iris Features, *Expert Systems with Applications* (Elsevier), **Vol. 140**, 112884, 2020.

12. Vivekraj V K, Debashis Sen and **Balasubramanian Raman**, Video Skimming: Taxonomy and Comprehensive Survey, ***ACM Computing Surveys***, **Vol. 52**, No. 5, Article 106, 2019.

13. Gaurav Bhatt, Piyush Jha and **Balasubramanian Raman**, Representation Learning Using Step-based Deep Multi-modal Autoencoders, *Pattern Recognition* (Elsevier), **Vol. 95**, pp. 12-23, 2019.

14. 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.

15. Debanjan Sadhya and **Balasubramanian Raman**, Generation of Cancelable Iris Templates via Randomized Bit Sampling, ***IEEE Transactions on Information Forensics and Security***, **Vol.14**, no.11, pp. 2972 - 2986, 2019.

16. 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.

17. 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.

18. 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.

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20. 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.

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22. 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.

23. 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.

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29. 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.

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32. 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.

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B. Refereed International Journal Papers: Q2

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37. Nidhi Saxena and **Balasubramanian Raman**, Pansharpening Scheme using Spectral Graph Wavelet Transform and Convolutional Neural Network, provisionally Accepted for publication in *International Journal of Remote Sensing* (*Taylor & Francis*), 2020.

38. Anjali Gautam and **Balasubramanian Raman**, Towards Effective Classification of Brain Hemorrhagic and Ischemic Stroke using CNN, Accepted for publication in *Biomedical Signal Processing and Control* (Elsevier), 2020.

39. Vishesh Tanwar, **Balasubramanian Raman** and Rama Bhargava, 2DInpaint: A Novel Privacy-preserving Scheme for Image Inpainting in an Encrypted Domain over the Cloud, Accepted for publication in *Signal Processing: Image Communication* (Elsevier), 2020.

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43. 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, *IEEE Sensors Journal*, **Vol. 19**, No. 16, pp. 7056-7063, 2019.

44. 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), **Vol. 40**, No.2, pp. 759-773, 2019.

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46. 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.

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48. 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.

49. Priyanka Singh and **Balasubramanian Raman**, Reversible Data Hiding for Rightful Ownership Assertion in Encrypted Domain over Cloud, *AEŰ - International Journal of Electronics and Communications* (Elsevier), **Vol. 76**, pp. 18-35, 2017.

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53. 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.

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C. Refereed International Journal Papers: Q2 and Q3

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D. Refereed International Journal Papers: Q3

92. Rahul Kumar, Brajesh Kumar Kaushik and **Balasubramanian Raman**, Multispectral Transmission Map Fusion Method and Architecture for Image Dehazing, ***IEEE Transactions on Very Large Scale Integration Systems***, **Vol. 27**, No.11, pp. 2693-2697, 2019.

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E. Other SCI Journals

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