

## List of Publications – M.K.Dutta

### Journal Papers:

1. Monika Arora, M.Parthasarathi & Malay Kishore Dutta, “Deep learning neural networks for acrylamide identification in potato chips using transfer learning approach” Journal of Ambient Intelligence and Humanized Computing, Springer Nature Publishers, DOI: 10.1007/s12652-020-02867-2, 2021, SCI indexed, Impact Factor – 4.59.
2. Rakesh Chandra Joshi, Saumya Yadav, Vinay Kumar Pathak, Hardeep Singh Malhotra, Harsh Vardhan Singh Khokhar Anit Parihar Neera Kohli, D.Himanshu, Ravindra K.Garg, Madan Lal Brahm Bhatt, Raj Kumar, Naresh Pal Singh, Vijay Sardana, Radim Burget, Cesare Alippi, Carlos M.Travieso-Gonzalez, Malay Kishore Dutta, “A deep learning-based COVID-19 automatic diagnostic framework using chest X-ray images” , Biocybernetics and Biomedical Engineering, Elsevier Publishers, 2021, doi.org/10.1016/j.jbbe.2021.01.002, SCI Indexed Impact Factor : 2.537
3. Saumya Yadav, Neha Sengar, Akriti Singh, Anushikha Singh, Malay Kishore Dutta, “ *Identification of disease using deep learning and evaluation of bacteriosis in peach leaf*”, Ecological Informatics, Accepted for Publication, 2021, Elsevier Publishers, SCI indexed Impact Factor – 2.51
4. Ritesh Maurya, Vinay K Pathak & Malay Kishore Dutta, "Computer-Aided Diagnosis of Auto-Immune Disease Using Capsule Neural Network", Multimedia Tools and Applications, Springer Nature Publishers, DOI: 10.1007/s11042-021-10534-7, 2021, SCI indexed Impact Factor - 2.30.
5. Neeraj Baghel, Malay Kishore Dutta & Radim Burget, “Automatic Diagnosis of Multiple Cardiac Diseases from PCG Signals using Convolutional Neural Network” Computer Methods and Programs in Biomedicine, Volume 197, doi.org/10.1016/j.cmpb.2020.105750, Elsevier Publishers, 2020, SCI indexed, Impact Factor – 3.632.
6. Chandrasen Pandey, Neeraj Baghel, Malay Kishore Dutta, Ashish Srivastava & Nandlal Chaudary, “Machine Learning Approach for Automatic Diagnosis of Chlorosis in Vigna Mungo Leaves”, Multimedia Tools and Applications, Multimedia Tools and Applications, Springer Nature Publishers, DOI:10.1007/s11042-020-10309-6, 2020, SCI indexed Impact Factor - 2.30.
7. Rakesh Chandra Joshi, Manoj Kaushik, Malay Kishore Dutta, Ashish Srivastava & Nandlal Choudhary, “VirLeafNet: Automatic Analysis and Viral Disease Diagnosis Using Deep-Learning in Vigna Mungo Plant” Ecological Informatics, doi.org/10.1016/j.ecoinf.2020.101197, 2020, Elsevier Publishers, SCI indexed Impact Factor – 2.51
8. Anushikha Singh, Neha Singh, Tanu Jindal, Alfredo Rosado & Malay Kishore Dutta, “A Novel Pilot Study of Automatic Identification of EMF Radiation Effect on Brain using Computer Vision and Machine Learning” Biomedical Signal Processing and Control, DOI : 10.1016/j.bspc.2019.101821, Volume 57, 101821, 2020, Elsevier Publishers, SCI indexed Impact Factor – 3.137.
9. Ashish Issac, Malay Kishore Dutta & Carlos M Travieso, “Automatic Computer Vision based Detection and Quantitative Analysis of Indicative Parameters for Grading of Diabetic Retinopathy” – Neural Computing and Applications, Springer Nature Publisher, DOI: 10.1007/s00521-018-3443-z, 32(20), pp.15687-15697, October-2020, SCI indexed Impact Factor – 4.774.
10. José Luis Vásquez, Antonio G. Ravelo-García, Jesús B. Alonso, Malay Kishore Dutta, Carlos M. Travieso “Writer identification approach by holistic graphometric features using offline handwriting words” -Neural Computation and Applications, Springer Verlag Publisher – DOI: 10.1007/s00521-018-3461-x., 2020, 32(20), pp. 15733-15746, October, 2020, SCI Indexed Impact Factor – 4.774.
11. Ritesh Maurya, Neha Singh, Tanu Jindal, Vinay K Pathak, Malay Kishore Dutta, “Machine Learning based Identification of Radiofrequency Electromagnetic Radiation (RF-EMR) effect on Brain Morphology: A Preliminary Study” Medical and Biological Engineering & Computing, Springer Nature Publishers- DOI: 10.1007/s11517-020-02198-6, 58(8), pp. 1751-1765, 2020, SCI indexed Impact Factor – 2.022.
12. Ritesh Maurya, Neha Singh, Tanu Jindal, Vinay K Pathak, Malay Kishore Dutta, “Computer-Aided Automatic Transfer Learning based Approach for Analysing the Effect of High-Frequency EMF Radiation on Brain" Multimedia Tools and Applications, Springer Nature Publishers, DOI: 10.1007/s11042-020-10204-0, 2020, SCI indexed Impact Factor - 2.30.
13. Rakesh Chandra Joshi, Saumya Yadav, Malay Kishore Dutta , Carlos M. Travieso-Gonzalez, “ An Efficient Multi-Object Detection and Smart Navigation using Artificial Intelligence for Visually Impaired People” Entropy, Volume 22 Issue 9, 2020, SCI indexed Impact Factor – 2.419, DOI :10.3390/e22090941.

14. Abhilasha Singh, Malay Kishore Dutta, "A Robust Zero-Watermarking Scheme for Tele-Ophthalmological Applications" Volume 32, Issue 8, October 2020, Pages 895-908, Journal of KSU- Computer and Information Sciences, 2020, Elsevier Publishers.
15. Anjali Yadav, Anushikha Singh, Malay Kishore Dutta & Carlos M. Travieso "Machine Learning Based Classification of Cardiac Diseases from PCG recorded Heart Sounds" Neural Computing and Applications, Springer Verlag Publishers, DOI - 10.1007/s00521-019-04547-5, December 2020, SCI indexed Impact Factor – 4.774.
16. Ashish Issac, Arti Srivastava, Ashutosh Srivastava & Malay Kishore Dutta, "An automated computer vision based preliminary study for the identification of a heavy metal (Hg) exposed fish - *Channa punctatus*" Computers in Biology & Medicine, DOI: 10.1016/j.compbiomed.2019.103326, 2019, Elsevier Publishers, SCI indexed Impact Factor – 3.434.
17. Shubham Mittal, Ashish Issac & Malay Kishore Dutta "Non-destructive image processing based system for assessment of rice quality and defects for classification according to inferred commercial value", Measurement, Journal of the International Measurement Confederation, Volume 148, December 2019, doi.org/10.1016/j.measurement.2019.106969, Elsevier Publishers, SCI indexed Impact Factor – 3.364.
18. M.Soorya, Ashish Issac and Malay Kishore Dutta, "Automated Framework for Screening of Glaucoma through Cloud Computing" Journal of Medical Systems, Springer Verilog Publisher – 2019, DOI: 10.1007/s10916-019-1260-2, SCI indexed Impact Factor – 3.058.
19. Martin Kolařík, Radim Burget, Václav Uher, Kamil Říha, Malay Kishore Dutta, "Optimized High Resolution 3D Dense-U-Net Network for Brain and Spine Segmentation" Applied Sciences, MDPI Publishers, Appl. Sci. 2019, 9, 404; DOI:10.3390/app9030404, SCI indexed Impact Factor- 2.474.
20. Soorya M, Ashish Issac, Malay Kishore Dutta, "An automated and robust image processing algorithm for glaucoma diagnosis from fundus images using novel blood vessel tracking and bend point detection"– International Journal of Medical Informatics, Elsevier Publishers, SCI Indexed Impact Factor – 3.2.- Volume 110, 2018, Pages 52–70, SCI indexed Impact Factor – 3.025.
21. Azeddine Mjihad, Alfredo Rosado-Muñoz , Juan F. Guerrero-Martinez, Manuel Bataller-Mompean, Jose V. Frances-Villora, Malay Kishore Dutta, " Detection of Ventricular Fibrillation Using the Image from Time-Frequency Representation and Combined Classifiers" Applied Sciences, Track Computer Science and Electrical Engineering - Special Issue -Deep Learning and Big Data in Healthcare" MDPI Publishers, 8, 2057; doi:10.3390/app8112057, 2018, SCI indexed Impact Factor- 2.474.
22. Anushikha Singh & Malay Kishore Dutta, "Imperceptible Watermarking for Security of Fundus Images in Tele-ophthalmology Applications and Computer Aided Diagnosis of Retinal Diseases" – International Journal of Medical Informatics, Elsevier Publishers, Volume 108, December 2017, Pages 110-124, SCI Indexed Impact Factor – 3.025.
23. Carlos M. Travieso, Antonio G. Ravelo-García, Jesús B. Alonso, José M. Canino-Rodríguez, Malay Kishore Dutta, "Improving the performance of the lip identification through the use of shape correction" Applied Intelligence, Springer Verilog, DOI - 10.1007/s10489-018-1352-6, December 2018, SCI indexed Impact Factor- 3.325
24. Namita Sengar, Malay Kishore Dutta and Carlos M. Travieso, "Computer Vision Based Technique for Identification and Quantification of Powdery Mildew Disease in Cherry Leaves" Computing, Springer Verilog Publisher, <https://doi.org/10.1007/s00607-018-0638-1>, 2018, pp- 1-3, SCI Indexed Impact Factor– 2.044.
25. Anushikha Singh, Malay Kishore Dutta, Rachid Jennane & Eric Lespessailles " Classification of the Trabecular bone structure of osteoporotic patients using machine vision" Computers in Biology and Medicine, Elsevier Publishers, Volume 91, 1 December 2017, Pages 148-158, SCI Indexed Impact Factor – 3.434.
26. Anjali Yadav, Namita Sengar, Ashish Issac, Malay Kishore Dutta, "Image Processing based Acrylamide detection from Fried Potato Chip Images using Continuous Wavelet Transform" - Computers and Electronics in Agriculture, Elsevier Publishers – Volume 145, February 2018, Pages 349–362. SCI Indexed Impact Factor – 3.858.
27. M. Mukherjee, S.Sangam, A. Gupta, A. Shakeel, R. Bhattacharya, A. K. Sharma, Dr. D. Suhag, S. Chakrabarti, S. K. Garg, S. Chattopadhyay, B. Basu, Dr. V. Kumar, Dr. S. K. Rajput and Malay Kishore Dutta, "Sulphur-doped Single-crystalline 2G Graphene Quantum Dots: Scaling New Heights in Cancer Cell Bioimaging – Green Chemistry, Journal of Royal Society of Chemistry, - Volume 20 Issue -18, 2018 pp. 4245-4259, DOI: 10.1039/C8GC01638K, 2018, SCI Indexed Impact Factor – 9.480.

28. Malay Kishore Dutta, M. ParthaSarathi, Shaumik Ganguly, Shaunak Ganguly and Kshitij Srivastava, "An Efficient Image Processing Based Technique for Comprehensive Detection and Grading of Non Proliferative Diabetic Retinopathy from Fundus Images" *Computer Methods in Biomechanics and Biomedical Engineering: Imaging & Visualization*, Taylor & Francis Publishers, Volume 5, Issue 3- 2017 - Pages 195-207, SCI Indexed Impact Factor – 1.502.
29. Namita Sengar & Malay Kishore Dutta, "Automated method for Hierarchical Detection and Grading of Diabetic Retinopathy" *Computer Methods in Biomechanics and Biomedical Engineering: Imaging & Visualization*, Taylor & Francis Publishers, Published online: 07 Jun 2017, <http://dx.doi.org/10.1080/21681163.2017.1335236>, SCI Indexed Impact Factor – 1.502.
30. Namita Sengar, Malay Kishore Dutta, Biplab Sarkar, "Computer Vision Based Technique for Identification of Fish Quality after Pesticide Exposure" *International Journal of Food Properties*, Taylor and Francis Publishers, Volume 20, 2017 - Issue sup2 - Pages 2192-2206, SCI Indexed Impact Factor – 1.808.
31. Ashish Issac, Malay Kishore Dutta & Biplab Sarkar, "Computer Vision Based Method for Quality and Freshness check for Fish from Segmented Gills, Computers and Electronics in Agriculture, Elsevier Publishers, Volume – 139, 2017, Pages 10-21, SCI Indexed Impact Factor – 3.858.
32. Arashdeep Kaur, Malay Kishore Dutta, "An optimized high payload audio watermarking algorithm based on LU factorization" *Multimedia Systems Journal*" Springer Verlag Publisher, DOI:10.1007/s00530-017-0545-x – 2017, pp. 1-15, 2018, SCI Indexed Impact Factor – 1.563.
33. Arashdeep Kaur, M.K. Dutta, "Localized & Self Adaptive Audio Watermarking Algorithm in Wavelet Domain", *Journal of Information Security & Applications*, Elsevier Publishers, Volume 33, 2017, Pages 1 – 15. SCI Indexed Impact Factor – 2.327.
34. Garima Mehta, Malay Kishore Dutta and Pyung Soo Kim, "Combinational Domain Based Encryption Using FRWT & Hyperchaotic system for Biometric Data Security", *Information Security Journal: A Global Perspective*, Taylor and Francis Publishers, Volume-26, Issue - 4, Pages 198-211, 2017.
35. Arashdeep Kaur, Malay Kishore Dutta, "High Embedding Capacity and Robust Audio Watermarking for Secure Transmission with Tamper Detection", *ETRI Journal*, Wiley Publishers, Volume 40, Number 1, 2018 pp. 133 to 145, SCI Indexed Impact Factor – 1.116.
36. Abhilasha Singh, Malay Kishore Dutta, "A Reversible Data Hiding Scheme for Efficient Management of Tele-Ophthalmological Data", *International Journal of E-Health and Medical Communications*, IGI Global Publishers, USA, Volume -8, Issue: 3, pp. 1-17, 2017.
37. Arashdeep Kaur, Malay Kishore Dutta, Nidhi Taneja and K.M.Soni, "Embedding Digital Watermark in One-Dimensional Signals Using Wavelet & Schur Decomposition" *Journal of Electronic Security and Digital Forensics*, Inderscience Publishers, UK, 2017 Vol.9, No.4 pp. 362-380.
38. Anamika Banwari, Namita Sengar, Malay Kishore Dutta, "Image Processing Based Colorectal Cancer Detection in Histopathological images" *International Journal of E-Health and Medical Communications*, IGI Global Publishers, USA, Volume 9, Issue 2, Article 1, pp 1-18, 2018, DOI: 10.4018/ IJEHMC.2018040101
39. Garima Vyas, Malay Kishore Dutta & Jiri Prinosil "Improving the computational complexity and word recognition rate for Dysarthria speech using robust frame selection algorithm" *International Journal of Signal and Imaging Systems Engineering*, Inderscience Publishers – Vol. 10, No. 3, PP. 136 -145, 2017.
40. Katha Chanda, Ashish Issac & Malay Kishore Dutta, "An adaptive algorithm for automatic detection of exudates based on localized properties of retinal fundus images" – *International Journal of E-Health and Medical Communications*, IGI Global Publishers, USA, Volume 10 • Issue 1 • January-March, 2019.
41. Garima Mehta, Malay Kishore Dutta & Pyung Soo Kim, "Biometric Data Security using Joint Encryption and Watermarking" *International Journal of Electronic Security and Digital Forensics*. Inderscience Publishers, UK, DOI: 10.1504/IJESDF.2019.10021732, Vol. 11, No. 4, 2019, pp. 379 – 394.
42. Malay Kishore Dutta, Anushikha Singh & Radim Burget, "Digital Ownership Tags Based on Biometric Features of Iris and Fingerprint for Content Protection and Ownership of Digital Images and Audio Signals" – *Multimedia Tools and Applications*, Springer Verilog Publishers, December 2016, Volume 75, Issue 23, pp 16287–16313, SCI Indexed Impact Factor –2.313.
43. Anushikha Singh, Malay Kishore Dutta & D.K.Sharma "Unique Identification Code for Medical Fundus Images Using Blood Vessel Pattern for Tele-ophthalmology Applications" *Computer Methods and Programs in Biomedicine*, Elsevier – DOI: 10.1016/j.cmpb.2016.07.011, October 2016, Volume 135, Pages 61–75, SCI Indexed Impact Factor –3.632.
44. Malay Kishore Dutta, Anushikha Singh & Sabari Ghosal, "An Imaging Technique for Acrylamide Identification in Potato Chips in Wavelet Domain" *LWT- Food Science and Technology*, Elsevier

- Publishers, 2016, vol. 65, pp. 987-998, DOI: 10.1016/j.lwt.2015.09.035. SCI Indexed Impact Factor – 4.006.
45. Malay Kishore Dutta, Namita Sengar, Narayan Kamble, Kaushik Banerjee, Navroj Minhas, Biplab Sarkar, “Image Processing Based Technique for Classification of Fish Quality after Cypermethrine Exposure” LWT Food Science and Technology, Elsevier Publishers, vol. 68, pp. 408-417, 2016. SCI Indexed Impact Factor – 4.006.
  46. Malay Kishore Dutta, Ashish Issac, Navroj Minhas & Biplab Sarkar, “An Image processing based method to assess fish quality and freshness” Journal of Food Engineering, Elsevier Publishers- 2016, vol. 177, pp. 50-58, DOI:10.1016/j.jfoodeng.2015.12.018. SCI Indexed Impact Factor –4.499.
  47. Anushikha Singh, Malay Kishore Dutta, M. ParthaSarathi, Vaclav Uher & Radim Burget, “Image Processing Based Automatic Diagnosis of Glaucoma using Wavelet Features of Segmented Optic Disc from Fundus Image” Computer Methods and Programs in Biomedicine, Elsevier Publishers, February 2016 Volume 124, Pages 108–120, DOI: 10.1016/j.cmpb.2015.10.010. Volume 124, February 2016, Pages 108–120, SCI Indexed Impact Factor –3.632.
  48. Malay Kishore Dutta, Namita Sengar, Navroj Minhas, Biplab Sarkar, Arnab Goon, Kaushik Banerjee, “Image processing based classification of grapes after pesticide exposure” LWT – Food Science and Technology, Elsevier Publishers. Volume 72, 1 October 2016, Pages 368-376, DOI: 10.1016/j.lwt.2016.05.002. SCI Indexed Impact Factor – 4.006.
  49. M. ParthaSarathi, Malay Kishore Dutta, Anushikha Singh and Carlos Travieso, “Blood Vessel Inpainting based Technique for Efficient Localization and Segmentation of Optic Disc in Digital Fundus Images”, Biomedical Signal Processing and Control, Volume 25, March 2016, Pages 108-117, Elsevier Publishers, DOI: 10.1016/j.bspc.2015.10.012. SCI Indexed Impact Factor -3.137.
  50. Arashdeep Kaur, Malay Kishore Dutta, K.M.Soni and Nidhi Taneja, “Hiding Biometric features in an Audio Signal using Gram–Schmidt Orthogonalization” International . Journal of Electronic Security and Digital Forensics, 2016 Vol.8, No.1, pp.63 – 81. DOI: <http://dx.doi.org/10.1504/IJESDF.2016.073735>.
  51. Garima Mehta, Malay Kishore Dutta & Pyung Soo Kim, “A Secure Encryption method for Biometric Templates based on Chaotic Theory” – Transactions on Computational Sciences Journal, Springer Verilog Publishers, 2016, Volume 9570, pp 120-140, DOI: 10.1007/978-3-662-50412-3\_8.
  52. Malay Kishore Dutta, Anushikha Singh and Namrata Raghuvanshi, “Digital Tags from Multi Subject Biometric Features for Joint Ownership of Digital Data”, International Journal of Electronic Security and Digital Forensics. Inderscience Publishers, United Kingdom, Vol. 8, No. 4, 2016, pp- 366-391.
  53. Abhilasha Singh, Malay Kishore Dutta, "Wavelet Based Reversible Watermarking System for Integrity Control and Authentication in Tele-Ophthalmological Applications", International Journal of Electronic Security and Digital Forensics, Inderscience Publishers, UK. Vol. 8, No. 4, 2016,.pp-392-411
  54. Lukas Povoda, Radim Burget, J. Masek, V. Uher, M. K. Dutta, “Optimization Methods in Emotion Recognition System” Radioengineering Journal, Czech Republic, Vol. 25, NO. 3, September 2016 Pages: 565-572. SCI Indexed Impact Factor – 1.076.
  55. Garima Mehta, Malay Kishore Dutta & Pyung Soo Kim, “An Efficient and Lossless Cryptosystem for Security in Tele ophthalmology Applications Using Chaotic Theory, International Journal of E-Health and Medical Communications (IJEHMC), IGI Global Publishers, USA, Volume 7 • Issue 4 • October-December 2016, Pages – 28 -47. (DOI: 10.4018/IJEHMC.2016100102).
  56. Jan Masek, Radim Burget, Lukas Povoda, Malay Kishore Dutta, “Multi–GPU Implementation of Machine Learning Algorithm using CUDA and OpenCL” International Journal of Advances in Telecommunications, Electrotechnics, Signals and Systems, International Science and Engineering Society Publishers, Czech Republic. Vol. 5, No. 2 (2016), pp. 101-107.
  57. Malay Kishore Dutta, Anushikha Singh & Sabari Ghosal, “An Efficient Computer Vision based technique for identification of Acrylamide in Potato Chips” Computers and Electronics in Agriculture, Elsevier Publishers, 2015, Volume -119, pp. 40-50, DOI: 10.1016/j.compag.2015.10.007, SCI Indexed Impact Factor –3.858.
  58. Ashish Issac, M. ParthaSarathi & Malay Kishore Dutta, “An Adaptive Threshold Based Image Processing Technique for Improved Glaucoma Detection & Classification” Computer Methods and Programs in Biomedicine, Elsevier Publishers, Nov. 2015, 122(2):229-44. DOI: 10.1016/j.cmpb.2015.08.002. SCI Indexed Impact Factor —3.632.
  59. Malay Kishore Dutta, Vinay K. Pathak and Phalguni Gupta “A Perceptible Watermarking Algorithm for Audio Signals” Multimedia Tools and applications, Springer Verilog Publishers, Germany, November

2014, Volume 73, Issue 2, pp 691-713 pp. 1-23, DOI: 10.1007/s11042-011-0945-4. SCI Indexed Impact Factor –2.313.

60. Malay Kishore Dutta, Anushikha Singh & K.M.Soni, “A Secure Algorithm for Biometric Based Digital Image Watermarking in DCT Domain” International Journal of Computer Vision and Robotics, Vol.4, No. 1/2, pp. 99-114, 2014, Inderscience Publishers, U.K.
61. Malay Kishore Dutta, Phalguni Gupta and Vinay K. Pathak “Audio Watermarking Using Pseudorandom Sequences Based on Biometric Templates”- Journal of Computers, Vol. 5, No. 3, 2010, pp. 372-379, Academy Publishers, Finland.
62. Malay Kishore Dutta, “Perceptible Watermarking: A Promising Application” - International Journal of Electronic Security and Digital Forensics. Vol. 3, No. 4, 2010, pp. 363-375. Inderscience Publishers, United Kingdom.
63. Malay Kishore Dutta, Phalguni Gupta and Vinay K. Pathak, “An Adaptive Robust Watermarking Algorithm for Audio Signals using SVD” – Transactions on Computational Sciences Journal, Vol. 6340, 2010, pp. 131–153, Springer Verilog Publishers, Germany.

### Conference papers and Book Chapters.

64. Astha Singh, Ankit Kumar, Malay Kishore Dutta, Carlos M Travieso-Gonzalez and Luis Esteban Hernández, “Perspective Approach for Security of Biometric Image” 3rd International Conference on Applications of Intelligent Systems 2020 (APPIS 2020) Las Palmas de Gran Canaria, Spain, ACM Digital Library. DOI: 10.1145/3378184.3378216
65. Abhishek Kaushal, Anjali Yadav, Malay Kishore Dutta, Carlos Travieso-González, Luis Esteban-Hernández, "Low Cost Portable Diagnostic Device for Automatic Classification of the Abnormal Cardiac Sound using PGC Recording, 3rd International Conference on Applications of Intelligent Systems 2020 (APPIS 2020) Las Palmas de Gran Canaria, Spain, ACM Digital Library. DOI: 10.1145/3378184.3378213.
66. Lalita Jaiswar, Anjali Yadav, Malay Kishore Dutta, Carlos Travieso-González, Luis Esteban-Hernández, “Transfer Learning based Computer Vision Technology for Assisting Visually Impaired for detection of Common Places” 3rd International Conference on Applications of Intelligent Systems 2020 (APPIS 2020) Las Palmas de Gran Canaria, Spain, ACM Digital Library. DOI: 10.1145/3378184.3378215
67. Ankit Kumar, Ankita Dwivedi & Malay Kishore Dutta, “A Zero watermarking Approach for Biometric Image Security” International Conference on Contemporary Computing, 2020, IEEE Xplore Digital Library, DOI: 10.1109/IC3A48958.2020.233268.
68. Dhruv Dahiya, Hardik Gupta, Malay Kishore Dutta, “A Deep Learning based Real Time Assistive Framework for Visually Impaired” International Conference on Contemporary Computing, 2020, IEEE Xplore Digital Library, DOI: 10.1109/IC3A48958.2020.233280.
69. Luis Esteban-Hernández, S, Dghim Carlos M. Travieso & Malay Kishore Dutta, “Nosema Pathogenic Agent Recognition Based On Geometrical And Texture Features Using Neural Network Classifier” International Conference on Contemporary Computing, 2020, IEEE Xplore Digital Library, DOI: 10.1109/IC3A48958.2020.233299.
70. Rakesh Chandra Joshi , Saumya Yadav & Malay Kishore Dutta, “YOLO-v3 Based Currency Detection and Recognition System for Visually Impaired Persons” International Conference on Contemporary Computing, 2020, IEEE Xplore Digital Library, DOI:10.1109/IC3A48958.2020.233314.
71. Astha Singh , Ankit Kumar & Malay Kishore Dutta, “DWT, DCT and PBFO based Approach for Biometric Image Security” International Conference on Contemporary Computing, 2020, IEEE Xplore Digital Library, DOI: 10.1109/IC3A48958.2020.233317.
72. Pavel Sikora, Martin Kiac, Malay Kishore Dutta, “Classification of railway level crossing barrier and light Signalling system using YOLOv3” 43rd International Conference on Telecommunications and Signal Processing (TSP), 2020, Italy, IEEE Xplore digital library, DOI: 10.1109/TSP49548.2020.9163535
73. Rakesh Chandra Joshi, Malay Kishore Dutta, Pavel Sikora, Martin Kiac, “Efficient Convolutional Neural Network Based Optic Disc Analysis Using Digital Fundus Images” 43rd International Conference on Telecommunications and Signal Processing (TSP), 2020, Italy, IEEE Xplore digital library, DOI: 10.1109/TSP49548.2020.9163560
74. Saumya Yadav, Rakesh Chandra Joshi, Malay Kishore Dutta, Martin Kiac, Pavel Sikora, “Fusion of Object Recognition and Obstacle Detection approach for Assisting Visually Challenged Person” 43rd International

- Conference on Telecommunications and Signal Processing (TSP), 2020, Italy, IEEE Xplore digital library, DOI: 10.1109/TSP49548.2020.9163434
75. Anjali Yadav, Malay Kishore Dutta, Jiri Prinosil, "Machine Learning Based Automatic Classification of Respiratory Signals using Wavelet Transform", 43rd International Conference on Telecommunications and Signal Processing (TSP), 2020, Italy, IEEE Xplore digital library, DOI: 10.1109/TSP49548.2020.9163565.
  76. Neeraj Baghel, Divyanshu Singh, Malay Kishore Dutta, Radim Burget, Vojtech Myska, " Truth Identification from EEG Signal by using Convolution neural network: Lie Detection", 43rd International Conference on Telecommunications and Signal Processing (TSP), 2020, Italy, IEEE Xplore digital library, DOI: 10.1109/TSP49548.2020.9163497
  77. Manoj Kaushik, Divyanshu Singh, Malay Kishore Dutta and Carlos M. Travieso-González, "A Deep Learning Approach for Epilepsy Seizure Detection using EEG Signals" International Work Conference on Bioinspired Intelligence, 2020 (IWOB-2020), UCR & TEC, Costa Rica – Publisher : Springer Nature.
  78. Chandrasen Pandey, Neeraj Baghel, Malay Kishore Dutta and Carlos M. Travieso-González, "Automatic Diagnoses of Lower Back Pain using Gait Patterns" International Work Conference on Bioinspired Intelligence, 2020 (IWOB-2020), UCR & TEC, Costa Rica – Publisher : Springer Nature.
  79. Rakesh Chandra Joshi, Saumya Yadav, Malay Kishore Dutta, Carlos M. Travieso-González, "An Efficient Convolutional Neural Network based Blood Cells Detection and Counting" International Work Conference on Bioinspired Intelligence, 2020 (IWOB-2020), UCR & TEC, Costa Rica – Publisher : Springer Nature.
  80. Rakesh Chandra Joshi, Malay Kishore Dutta and Carlos M. Travieso-González, "Artificial Intelligence based Multi-sensor COVID-19 Screening Framework" International Work Conference on Bioinspired Intelligence, 2020 (IWOB-2020), UCR & TEC, Costa Rica – Publisher : Springer Nature.
  81. Neelesh Srivastava, Mansi Bhatnagar, Anjali Jain, Malay Kishore Dutta & Carlos M Travieso Gonzalez, "Machine Learning Based Improved Automatic Diagnosis of Cardiac Disorder" – Applications of Intelligent Systems (APPIS - 2019), Las Palmas de Gran Canaria, Spain, 2019, ACM Digital Library, DOI: 10.1145/3309772.3309783.
  82. Vedant Singh, Malay Kishore Dutta & Carlos M Travieso Gonzalez, "Zero - Watermarking Scheme for Unique Patient Identification Tags in Fundus Images for Tele-Ophthalmologic Applications" - Applications of Intelligent Systems (APPIS\_2019), Las Palmas de Gran Canaria, Spain, 2019, ACM Digital Library, DOI: 10.1145/3309772.3309791.
  83. Ashish Issac, Asmita Gupta, Mansi Bhatnagar, Malay Kishore Dutta & Carlos M Travieso Gonzalez, "Imaging method for Noise Removal and segmentation of Skin Lesions from Dermoscopic Images" Applications of Intelligent Systems (APPIS\_2019), Las Palmas de Gran Canaria, Spain, 2019, ACM Digital Library, DOI: 10.1145/3309772.3309788
  84. Astha Singh, Shubhi Srivastava, Anjali Yadav, Malay Kishore Dutta and Carlos M Travieso-Gonzalez, "Automatic Framework for Extraction of Red Lesion Using Gabor Filter from Fundus Image" - Applications of Intelligent Systems (APPIS\_2019), Las Palmas de Gran Canaria, Spain, January 2019, ACM Digital Library, DOI: 10.1145/3309772.3309785
  85. Anam Fatima, Saurabh Kumar and Malay Kishore Dutta, "Host-Server based Malware Detection System for Android Platforms Using Machine Learning", 5th International Conference on Computational Intelligence and Communication Technology (CICT-2019). Published in "Advances in Intelligent Systems and Computing". Vol 1086. Springer. DOI: 10.1007/978-981-15-1275-9\_17
  86. Areeba Irshad and Malay Kishore Dutta, "Identification of Windows based malware by Dynamic Analysis using Machine Learning Algorithm" 5th International Conference on Computational Intelligence and Communication Technology (CICT-2019). Published in "Advances in Intelligent Systems and Computing". Vol 1086. Springer. DOI: 10.1007/978-981-15-1275-9\_18
  87. Vishal Choudhary, Malay Kishore Dutta and Abhilasha Singh, "Fourier Transform based Digital Watermarking Scheme for Biometric Images" International conference on "Advances in Electronics: Electrical: Computational Intelligence"- 2019 (ICAEEC-19), Proceedings published in ELSEVIER-SSRN Digital Library. <http://dx.doi.org/10.2139/ssrn.3575417>
  88. Anushika Chauhan, Malay Kishore Dutta, "QoS Aware Selection of Servers for IaaS Providers: A Trust Model Perspective", International Conference on "Advances in Electronics, Electrical & Computational Intelligence (ICAEEC-2019)". Proceedings to be published in ELSEVIER-SSRN Digital Library.
  89. Hardik Gupta, Dhruv Dahiya, Malay Kishore Dutta, Carlos M. Travieso and Jose Luis Vásquez-Núñez, "Real Time Surrounding Identification for Visually Impaired using Deep Learning Technique"

- International Work Conference on Bioinspired Intelligence, 2019, Budapest, Hungary. Published in IEEE Xplore Digital Library, DOI: 10.1109/IWOBI47054.2019.9114475
90. Jan Dorazil, Kamil Riha, Malay Kishore Dutta “Common Carotid Artery Wall Localization in B-mode Ultrasound Images for Initialization of Artery Wall Tracking Methods”, 42nd International Conference on Telecommunications and Signal Processing (TSP – 2019) - Budapest, Hungary, IEEE Xplore Digital Library, 2019, PP. 605-608, DOI: 10.1109/TSP.2019.8769077.
  91. Vojtech Myska, Radim Burget, Malay Kishore Dutta, “Linguistically independent sentiment analysis using convolutional-recurrent neural networks model” 42nd International Conference on Telecommunications and Signal Processing (TSP – 2019) - Budapest, Hungary, IEEE Xplore Digital Library. DOI: 10.1109/TSP.2019.8768887, PP. 212-215, 2019.
  92. Shubhi Srivastava, Astha Singh, Anjali Yadav, Malay Kishore Dutta, Kamil Riha, Jan Dorazil, “Automatic Extraction of Micro-aneurysms and Haemorrhages from Digital Fundus Image” 42nd International Conference on Telecommunications and Signal Processing (TSP – 2019) - Budapest, Hungary, IEEE Xplore Digital Library, 2019, PP. 249 -254, DOI: 10.1109/TSP.2019.8768847.
  93. Arpit Gupta, Arshdeep Kaur, Malay Kishore Dutta & Jiri Schimmel, “ Article Title: Perceptually Transparent & Robust Audio Watermarking Algorithm Using Multi Resolution Decomposition & Cordic QR Decomposition” 42nd International Conference on Telecommunications and Signal Processing- 2019 (TSP – 2019) - Budapest, Hungary, 2019, PP. 313-317, IEEE Xplore Digital Library, DOI: 10.1109/TSP.2019.8768894
  94. Ankita Dwivedi, Ankit Kumar, Malay Kishore Dutta, Radim Burget, Vojtech Myska, “An Efficient and Robust Zero-Bit Watermarking Technique for Biometric Image Protection”, 42nd International Conference on Telecommunications and Signal Processing- 2019 (TSP – 2019) - Budapest, Hungary, 2019, PP. 236-240, IEEE Xplore Digital Library, DOI: 10.1109/TSP.2019.8768881.
  95. Areeba Irshad, Ritesh Maurya, Malay Kishore Dutta, Radim Burget , Vaclav Uher, “ Feature Optimization for Run Time Analysis of Malware in Windows Operating System using Machine Learning Approach” 42nd International Conference on Telecommunications and Signal Processing- 2019 (TSP – 2019) - Budapest, Hungary, 2019, PP. 255-260, IEEE Xplore Digital Library, DOI: 10.1109/TSP.2019.8768808.
  96. Anam Fatima, Ritesh Maurya, Malay Kishore Dutta, Radim Burget, Jan Masek, “Android Malware Detection Using Genetic Algorithm based Optimized Feature Selection and Machine Learning” 42nd International Conference on Telecommunications and Signal Processing- 2019 (TSP – 2019) - Budapest, Hungary, 2019, PP. 220 -223, IEEE Xplore Digital Library, DOI: 10.1109/TSP.2019.8769039.
  97. Ritesh Maurya, Malay Kishore Dutta, Kamil Riha, Petr Kriz, “An Image Processing based Identification of Fish Exposed to Polluted Water” 42nd International Conference on Telecommunications and Signal Processing- 2019 (TSP – 2019) - Budapest, Hungary, 2019, PP. 245 -248, IEEE Xplore Digital Library, DOI: 10.1109/TSP.2019.8768856.
  98. Shivansh Dubey, Raghuvendra Pratap Tripathi, Malay Kishore Dutta, Jan Dorazil and Petr Kriz “Early Detection of Heart Valve Disease Employing Multiclass Classifier” 11th International Congress on Ultra Modern Telecommunications and Control Systems and Workshops (ICUMT), Dublin, Ireland – To be published in IEEE Xplore Digital Library. DOI: 10.1109/ICUMT48472.2019.8970870.
  99. Petr Kriz, Jiri Prinosil, Kamil Riha, Malay Kishore Dutta, “Proposed Methods for Real-Time Visualization of Panoramic Stadium Tribune Images in High Resolution” 11th International Congress on Ultra Modern Telecommunications and Control Systems and Workshops (ICUMT), Dublin, Ireland – To be published in IEEE Xplore Digital Library. DOI: 10.1109/ICUMT48472.2019.8970920.
  100. Hardik Gupta, Dhruv Dahiya, Malay Kishore Dutta, Carlos M. Travieso and Jose Luis Vásquez-Núñez, “Real Time Surrounding Identification for Visually Impaired using Deep Learning Technique” IEEE International Work Conference on Bioinspired Intelligence, 2019 - Budapest, Hungary, To be published in IEEE Xplore Digital Library.
  101. Vishal Choudhary, Malay Kishore Dutta and Abhilasha Singh, “Reversible Watermarking scheme for Authentication and integrity control in Biometric Images” 4<sup>th</sup> International Conference on Information Systems and Computer Networks, 2019, IEEE Xplore, DOI: 10. 1109/ ISCON47742.2019. 9036232
  102. Ankita Dwivedi, Abhilasha Singh and Malay Kishore Dutta, “Wavelet-SVD based Zero-Bit Watermarking for Securing Biometric Images” 4<sup>th</sup> International Conference on Information Systems and Computer Networks, 2019, IEEE Xplore, DOI: 10.1109/ISCON47742.2019.9036228

103. Martin Rajnoha, Lukas Povoda, Jan Masek, Radim Burget and Malay Kishore Dutta, "Pedestrian Detection from Low Resolution Public Cameras in the Wild" 5th IEEE International conference on Singal Processing and Integrated Networks, 2018, Publisher: IEEE Xplore Digital Library. DOI:10.1109/SPIN.2018.8474255
104. Jan Masek, Martin Rajnoha, Radim Burget and Malay Kishore Dutta, "Automatic System for Diseased Artery Transverse Section Detection" " 5th IEEE International conference on Singal Processing and Integrated Networks, 2018, Publisher: IEEE Xplore Digital Library. DOI: 10.1109/SPIN.2018.8474262
105. Jesús B. Alonso-Hernández, María L. Barragán-Pulido, José P. González-Torres, Carlos M Travieso Gonzalez, Miguel Ferrer, José De León Y De Juan, Garima Vyas and Malay Kishore Dutta, "New feature extraction from electroglottographic signals applied to automatic detection of laryngeal pathologies" 5th IEEE International conference on Singal Processing and Integrated Networks, 2018, Publisher: IEEE Xplore Digital Library- DOI: 10.1109/SPIN.2018.8474260.
106. Jesús B. Alonso-Hernández, María L. Barragán-Pulido, Carlos M Travieso Gonzalez, Miguel Ferrer, Raquel Plata-Pérez and Malay Kishore Dutta, Anushikha Singh "Nonlinear characterization of ECG signals for automatic arrhythmia detection" 5th IEEE International conference on Singal Processing and Integrated Networks, 2018, Publisher: IEEE Xplore Digital Library - DOI: 10.1109/SPIN.2018.8474274
107. Varun Gupta, M.K.Dutta, Namita Sengar & Carlos Travieso González "Adaptive Threshold Based Automated Identification of Severity of Diabetic Macular Edema from Retinal Images" International Conference on Applications of Intelligent Systems, APPIS, January 2018, Las Palmas de Gran Canaria, Spain, Published in Applications of Intelligent Systems IOS Press, 2018, pp - 336 – 344, DOI :10.3233/978-1-61499-929-4-336.
108. Sayantan Bhattacharya, Jai Sehgal, Namita Sengar & M.K.Dutta and Carlos Travieso González "An Imaging Algorithm for Rotation Invariant Automated Macula localization in Digital Fundus Images" International Conference on Applications of Intelligent Systems, APPIS January 2018, Las Palmas de Gran Canaria, Spain, Published in Applications of Intelligent Systems IOS Press, 2018, pp – 345 – 352. Doi:10.3233/978-1-61499-929-4-345.
109. Ashmita Gupta, Ashish Issac, Malay Kishore Dutta & Kamil Riha "An Imaging Method for Automated Skin Lesion Segmentation using Statistical Analysis and Bit Plane Slicing" 4th IEEE International Conference on Computational intelligence and communication technology (CICT-2018). Publisher : IEEE Xplore Digital Library - DOI: 10.1109/CICT.2018.8480175.
110. Mohan Mishra, Anitek Bhattacharjee, Anushikha Singh and Malay Kishore Dutta, "A Lossless Model for Generation of Unique Digital Code for Identification of Biometric Images" 4th IEEE International Conference on Computational intelligence and communication technology (CICT-2018). Publisher : IEEE Xplore Digital Library - DOI: 10.1109/CICT.2018.8480297.
111. Anjali Yadav, Malay Kishore Dutta and Radim Burget, " Automatic visible range imaging scheme to identify toxic substance from common starchy food" 4th IEEE International Conference on Computational intelligence and communication technology (CICT-2018). Publisher : IEEE Xplore Digital Library - DOI: 10.1109/CICT.2018.8480363
112. Namita Sengar, Varun Gupta, Malay Kishore Dutta and Carlos M Travieso Gonzalez, " Image Processing Based Method For Identification Of Fish Freshness Using Skin Tissue" 4th IEEE International Conference on Computational intelligence and communication technology (CICT-2018). Publisher: IEEE Xplore Digital Library - DOI: 10.1109/CICT.2018.8480265
113. Arashdeep Kaur and Malay Kishore Dutta, "A Blind Watermarking Algorithm for Audio Signals in Multi-Resolution and Singular Value Decomposition" 4th IEEE International Conference on Computational intelligence and communication technology (CICT-2018). Publisher: IEEE Xplore Digital Library - DOI: 10.1109/CICT.2018.8480367
114. Abhilasha Singh, Malay Kishore Dutta, "Lossless and Robust Digital Watermarking Scheme for Retinal Images" " 4th IEEE International Conference on Computational intelligence and communication technology (CICT-2018). Publisher: IEEE Xplore Digital Library - DOI: 10.1109/CICT.2018.8480151
115. Anjali Yadav, Malay Kishore Dutta, "Computer Vision based Identification and Quantification of Rust Disease in Maize Crop" International Conference on Computational intelligence and communication technology (CICT-2018). Publisher: IEEE Xplore Digital Library - DOI: 10.1109/CICT.2018.8480122
116. Ashish Khatter, Akshat Browne, Anushikha Singh, Malay Kishore Dutta, Kamil Riha, Radim Burget, "Generation of SVD Based Non-informative Unique ID for Authentication of MRI Images" 41<sup>st</sup> IEEE International Conference on Telecommunications and Signal Processing, Athens, Greece, July, 2018 – DOI: 10.1109/TSP.2018.8441440



117. Parthasarathi Mangipudi, P Bannerjee, Malay Kishore Dutta, Kamil Riha, Jan Dorazil, "A Stochastic Method for Ultrasound Despeckling in Images via Dynamic Weight Allocation" 41<sup>st</sup> IEEE International Conference on Telecommunications and Signal Processing, Athens, Greece, July, 2018 – DOI: 10.1109/TSP.2018.8441447
118. Dhruv Dahiya, Ashish Issac, Malay Kishore Dutta, Kamil Řiha, Petr Kříž, "Computer Vision Technique for Scene Captioning to provide Assistance to Visually Impaired" 41<sup>st</sup> IEEE International Conference on Telecommunications and Signal Processing, Athens, Greece, July, 2018 – DOI: 10.1109/ TSP. 2018. 8441428 .
119. Sayantan Bhattacharya, Jai Sehgal, Ashish Issac, Malay Kishore Dutta Radim Burget, Martin Kolarik, "Computer vision method for grading of health of a fundus image on basis of presence of red lesions" 41<sup>st</sup> IEEE International Conference on Telecommunications and Signal Processing, Athens, Greece, July, 2018 – DOI: 10.1109/TSP.2018.8441504
120. Arashdeep Kaur & Malay Kishore Dutta Jiri Prinosil, "General Regression Neural Network based Audio Watermarking Algorithm using Torus Automorphism" 41<sup>st</sup> IEEE International Conference on Telecommunications and Signal Processing, Athens, Greece, July, 2018 – DOI: 10.1109/TSP.2018. 8441174
121. Jan Dorazil, Kamil R'iha Malay Kishore Dutta, "Indoor Change Detection Using LTP Histograms" 41<sup>st</sup> IEEE International Conference on Telecommunications and Signal Processing, Athens, Greece, July, 2018 – DOI: 10.1109/TSP.2018.8441176
122. Petr Kriz\_, Kamil Riha\_, Malay Kishore Dutta, "Determination of a People Height from Images Using a Known Object Size" 41<sup>st</sup> IEEE International Conference on Telecommunications and Signal Processing, Athens, Greece, July, 2018 – DOI: 10.1109/TSP.2018.8441239.
123. Martin Kolařík, Radim Burget, Vaclav Uher, "3D Dense-Unet for MRI brain tissue segmentation" 41<sup>st</sup> IEEE International Conference on Telecommunications and Signal Processing, Athens, Greece, July, 2018 – DOI: 10.1109/TSP.2018.8441508
124. Anjali Yadav, Malay Kishore Dutta, Carlos M Travieso & Jesus B. Alonso, "Automatic Classification of Normal and Abnormal PCG recording Heart Sound Recording Using Fourier Transform", IEEE International Work Conference on Bioinspired Intelligence, 2018 - San Carlos, Alajuela Province, Costa Rica– DOI: 10.1109/IWOBI.2018.8464131
125. Monika Arora, M.K.Dutta, Carlos M. Travieso & Radim Burget, "Image Processing Based Classification of Enzymatic Browning in Chopped Apples" IEEE International Work Conference on Bioinspired Intelligence, 2018 - San Carlos, Alajuela Province, Costa Rica– DOI: 10.1109/IWOBI.2018.8464181
126. Monika Arora, Partha Sarathi Mangipudi, Malay Kishore Dutta and Radim Burget, "Image Processing Based Automatic Identification of Freshness in Fish Gill Tissues" International conference on Advances in Computing, Communication Control and Networking, Publisher: IEEE Xplore Digital Library, DOI: 10.1109/ICACCCN.2018.8748778
127. Martin Rajnoha, Radim Burget, Malay Kishore Dutta & Ashish Issac, "Offline Handwritten Text Recognition Using Support Vector Machines – 4<sup>th</sup> IEEE International conference on Singal Processing and Integrated Networks, 2-3 February, 2017, DOI: 10.1109/SPIN.2017.8049930.
128. Pavol Harár, Radim Burget, Malay Kishore Dutta & Anushikha Singh "Speech Emotion Recognition with Deep Learning" - - 4<sup>th</sup> IEEE International conference on Singal Processing and Integrated Networks, 2017, 2-3 February, 2017, DOI: 10.1109/SPIN.2017.8049931.
129. Lukas Povoda, Radim Burget, Malay Kishore Dutta & Namita Sengar "Genetic Optimization of Big Data Sentiment Analysis" - - 4<sup>th</sup> IEEE International conference on Singal Processing and Integrated Networks, 2-3 February, 2017, DOI: 10.1109/SPIN.2017.8049932.
130. Carlos M. Travieso, Jesus B. Alonso, Jose L. Vásquez, Malay Kishore Dutta, Anushikha Singh, "Applying Forensic Features on Writer Identification" – 4<sup>th</sup> IEEE International conference on Singal Processing and Integrated Networks, 2-3 February, 2017, DOI: 10.1109/SPIN.2017.8050015.
131. Mohan Mishra, Anushikha Singh, Malay Kishore Dutta, Radim Burget and Jan Masek, "Classification of Normal and Abnormal Heart Sounds for Automatic Diagnosis" 40<sup>th</sup> IEEE International Conference on Telecommunications and Signal Processing, Barcelona, Spain, 5-7 July, 2017, DOI: 10.1109/TSP.2017.8076089.
132. Martin Rajnoha, Radim Burget and Malay Kishore Dutta, "Handwriting Comenia Script Recognition with Convolution Neural Network" ” 40<sup>th</sup> IEEE International Conference on Telecommunications and Signal Processing, Barcelona, Spain, 5-7 July, 2017, DOI: 10.1109/TSP.2017.8076093.

133. Aparajita, Rudransh Sharma, Anushikha Singh, Malay Kishore Dutta, Kamil Riha and Petr Kriz “Image Processing Based Automated Identification of Late Blight Disease from Leaf Images of Potato Crops” 40<sup>th</sup> IEEE International Conference on Telecommunications and Signal Processing, Barcelona, Spain, 5-7 July, 2017, DOI: 10.1109/TSP.2017.8076090.
134. Namita Sengar, Malay Kishore Dutta, Radim Burget, Martin Rajnoha, “Automated Detection of Suspected Glaucoma in Digital Fundus Images”- 40<sup>th</sup> IEEE International Conference on Telecommunications and Signal Processing, Barcelona, Spain, 5-7 July, 2017, DOI: 10.1109/TSP.2017.8076088.
135. Ashi Agarwal, Ashish Issac, Malay Kishore Dutta, Kamil Riha, Vaclac Uher, “Automated Skin Lesion Segmentation using K-means Clustering from Digital Dermoscopic Images” - 40<sup>th</sup> IEEE International Conference on Telecommunications and Signal Processing, Barcelona, Spain 5-7 July, 2017, DOI: 10.1109/TSP.2017.8076087.
136. Petr Kriz, Kamil Riha, Malay Kishore Dutta, “Automatic Determination of the Position of a Tennis Player Using a Pair of Cameras” ” - 40<sup>th</sup> IEEE International Conference on Telecommunications and Signal Processing, Barcelona, Spain, 5-7 July, 2017, DOI: 10.1109/TSP.2017.8076091.
137. Anjali Yadav, Malay Kishore Dutta, Carlos M. Travieso, Jesús B. Alonso “Automatic Identification of Botanical Samples of leaves using Computer Vision” 5<sup>th</sup> IEEE International Work Conference on Bioinspired Intelligence (IWOB 2017), Portugal, European Union, 10-12 July, 2017, DOI: 10.1109/IWOB.2017.7985531.
138. Pulkit Pandey, Anupama Bhan, Malay Kishore Dutta, Carlos M. Travieso, “Automatic Image Processing Based Dental Image Analysis Using Automatic Gaussian Fitting Energy and Level Sets” 5<sup>th</sup> IEEE International Work Conference on Bioinspired Intelligence (IWOB 2017), Portugal, European Union, 10-12 July, 2017, DOI: 10.1109/IWOB.2017.7985529.
139. Ravitej Singh Rekhi, Ashish Issac, Malay Kishore Dutta, Carlos M. Travieso, “Automated classification of exudates from digital fundus images” 5<sup>th</sup> IEEE International Work Conference on Bioinspired Intelligence (IWOB 2017), Portugal, European Union, 10-12 July, 2017, DOI: 10.1109/IWOB.2017.7985527.
140. Anushikha Singh, Malay Kishore Dutta, Carlos M. Travieso, “Analysis of Heart Sound for Automated Diagnosis of Cardiac Disorders” 5<sup>th</sup> IEEE International Work Conference on Bioinspired Intelligence (IWOB 2017), Portugal, European Union, 10-12 July, 2017, DOI: 10.1109/IWOB.2017.7985528.
141. Varun Gupta, Namita Sengar, Malay Kishore Dutta, Carlos M. Travieso, Jesús B. Alonso, “Automated Segmentation of Powdery Mildew disease from Cherry Leaves using Image Processing” 5<sup>th</sup> IEEE International Work Conference on Bioinspired Intelligence (IWOB 2017), Portugal, European Union, 10-12 July, 2017, DOI: 10.1109/IWOB.2017.8006454.
142. Ashmita Gupta, Ashish Issac, Malay Kishore Dutta, Hui Huang Hsu, “Adaptive Thresholding for Skin Lesion Segmentation Using Statistical Parameters” IEEE International Conference on Advanced Information Networking and Applications, Taiwan, 27-29 March 2017, DOI: 10.1109/WAINA.2017.36.
143. Ashi Agarwal, Ashish Issac, Malay Kishore Dutta, Viktoria Doneva Zoran Ivanovski “Automated Computer Vision Method for Lesion Segmentation from Digital Dermoscopic Images” The IEEE Conference on Electrical, Computer and Electronics, 26-28 October 2017, DOI: 10.1109/UPCON.2017.8251107.
144. Namita Sengar, Malay Kishore Dutta & Carlos M. Travieso, “Identification of Amyotrophic Lateral Sclerosis using EMG Signals” The IEEE Conference on Electrical, Computer and Electronics, 26-28 October, 2017, pp 468-471, DOI: 10.1109/UPCON.2017.8251093.
145. Ravitej Singh Rekhi, Ashish Issac, Malay Kishore Dutta, “Automated detection and grading of Diabetic Macular Edema from digital colour fundus images” The IEEE Conference on Electrical, Computer and Electronics, 26-28 October, 2017, pp 482-486, DOI: 10.1109/UPCON.2017.8251096.
146. Anushikha Singh, Mohan Mishra, Malay Kishore Dutta & Radim Burget, “An Imaging Method for Automated Detection of Acrylamide in Potato Chips” The IEEE Conference on Electrical, Computer and Electronics, 26-28 October, 2017, pp 487-490, DOI: 10.1109/UPCON.2017.8251097.
147. Mohan Mishra, Anushikha Singh, Malay Kishore Dutta and Alfredo Rosado Muñoz, “Automatic Screening of Cardiac Disorders using Wavelet Analysis of Heart Sound” The IEEE Conference on Electrical, Computer and Electronics, 26-28 October, 2017, pp 472-476, DOI: 10.1109/UPCON.2017.8251094.
148. Anushikha Singh and M.K. Dutta “Analysis of EMG Signals for Automated Diagnosis of Myopathy” 4<sup>th</sup> IEEE UPCON –Conference of IEEE UP Section, 26-28 October, 2017, pp 628-631, DOI: 10.1109/UPCON.2017.8251122.

149. Namita Sengar and M.K. Dutta “Detection of Neuro Muscular Disease Using EMG Signals in Wavelet Domain” 4th IEEE UP CON –Conference of IEEE UP Section, 26-28 October, 2017, pp 624-627, **DOI:** 10.1109/UPCON.2017.8251121.
150. Ashi Agarwal, Ashish Issac and M.K. Dutta. “A Region Growing based Imaging Method for Lesion Segmentation from Dermoscopic Images” 4th IEEE UP CON –Conference of IEEE UP Section, 26-28 October, 2017, pp 632-637, **DOI:** 10.1109/UPCON.2017.8251123.
151. David Batista-Plaza, Carlos M. Travieso, Malay Kishore Dutta & Anushikha Singh, “Biometric analysis for the recognition of spider species according to their webs” 10<sup>th</sup> IEEE International Conference on Contemporary Computing, (IC3 – 2017). **DOI:** 10.1109/IC3.2017.8284286
152. Fernando A. Pitters-Figueroa, Carlos M. Travieso, Malay Kishore Dutta & Anushikha Singh, “Biometric identifier based on hand and hand-written signature contour information” 10<sup>th</sup> IEEE International Conference on Contemporary Computing, (IC3 – 2017) - **DOI:** 10.1109/IC3.2017.8284292
153. Anitek Bhattacharya, Mohan Mishra, Anushikha Singh & Malay Kishore Dutta, “Machine Learning based Portable Device for Detection of Cardiac Abnormality” 2017 International Conference on Emerging Trends in Computing and Communication Technologies, 17-18 November, 2017, **DOI:** 10.1109/ ICETCCT. 2017.8280307.
154. Ashish Khatter, Akshat Browne, Anushikha Singh, Malay Kishore Dutta, “Wavelet Based Non-informative Code for Security of Fundus Images” 2017 International Conference on Emerging Trends in Computing and Communication Technologies, 17-18 November, 2017, **DOI:** 10.1109/ICETCCT.2017.8280308.
155. Namita Sengar, Ashish Srivastava, Malay Kishore Dutta, “Machine Vision Based Detection of Ageratum Enation Virus Infection Using Light Microscopic Images of Poppy Plants Cells” 2017 International Conference on Emerging Trends in Computing and Communication Technologies, 17-18 November, 2017, **DOI:** 10.1109/ICETCCT.2017.8280306.
156. Ashish Issac, Soorya M, Malay Kishore Dutta, “Automated Localization of Optic Nerve Head in a Fundus Image using Computer Vision Technique” 2017 International Conference on Emerging Trends in Computing and Communication Technologies, 17-18 November, 2017, **DOI:** 10.1109/ ICETCCT. 2017.8280305.
157. Jiri Prinosisl, Petr Kriz, Kamil Riha, Malay Kishore Dutta and Ashish Issac, “Facial Image De-identification Using Active Appearance Model” 2017 International Conference on Emerging Trends in Computing and Communication Technologies, 17-18 November, 2017, **DOI:** 10.1109/ICETCCT.2017.8280304.
158. Alejandro Cortina, Azeddine Mjahad, Alfredo Rosado, Manuel Bataller, Jos´e V. Franc´es, Malay Kishore Dutta, Garima Vyas, “Ventricular Fibrillation Detection from ECG Surface Electrodes Using Different Filtering Techniques, Window Length and Artificial Neural Networks” 2017 International Conference on Emerging Trends in Computing and Communication Technologies, 17-18 November, 2017, **DOI:** 10.1109/ICETCCT.2017.8280303
159. Juan J. Noda, Carlos M. Travieso, David S´anchez-Rodr´iguez, Malay Kishore Dutta, Anushikha Singh “Automatic Classification of Pinnipeds based on their Vocalizations and Fusion of Cepstral Features” IEEE International Conference on Signal Processing and Integrated Networks, (SPIN – 2016), India, pp. 215-219, IEEE Xplore Digital Library, New York USA.
160. Tobias Kutzner, Mario Dietze, Ingrid Bönninger, Carlos M. Travieso, Malay Kishore Dutta, Anushikha Singh “Online Handwriting Verification with Safe Password and increasing number of features” IEEE International Conference on Signal Processing and Integrated Networks, (SPIN – 2016), India, pp. 650-655, IEEE Xplore Digital Library, New York USA.
161. Juan J. Noda, Carlos M. Travieso, David S´anchez-Rodr´iguez, Malay Kishore Dutta, Anushikha Singh “Using Bioacoustic Signals and Support Vector Machine for Automatic Classification of Insects” IEEE International Conference on Signal Processing and Integrated Networks (SPIN – 2016), India, pp. 656-659, IEEE Xplore Digital Library, New York USA.
162. N´estor M. Alem´an-Soler, Carlos M. Travieso, Elyoenai Guerra-Segura, Jes´us B. Alonso, Malay Kishore Dutta, Anushikha Singh “Biometric Approach Based on Physiological Human Signals” IEEE International Conference on Signal Processing and Integrated Networks, (SPIN – 2016), India, pp. 681-686, IEEE Xplore Digital Library, New York USA.
163. David Hern´andez-Abreu, Ismael Quevedo-Medina, Carlos M. Travieso, Malay Kishore Dutta, Anushikha Singh “Use of maps to extract geometric parameters of cities based image processing” IEEE International Conference on Signal Processing and Integrated Networks, (SPIN – 2016), India, pp. 716-720, IEEE Xplore Digital Library, New York USA.

164. Ashish Issac, Malay Kishore Dutta, Biplab Sarkar and Radim Burget, "An Efficient Image Processing Based Method for Gills Segmentation from a Digital Fish Image" - IEEE International Conference on Signal Processing and Integrated Networks, (SPIN – 2016), India, pp. 645-649, IEEE Xplore Digital Library, New York USA.
165. Namita Sengar, Malay Kishore Dutta, M. Partha Sarathi, Sohini Roy Choudhury & Radim Burget, "Fast localization of the optic disc in fundus images using region-based segmentation- IEEE International Conference on Signal Processing and Integrated Networks, (SPIN – 2016), India, pp. 529-532, IEEE Xplore Digital Library, New York USA.
166. Arashdeep Kaur, Malay Kishore Dutta, Radim Burget, Kamil Riha "A Heuristic Algorithmic Approach to Challenging Robustness of Digital Audio Watermarking" 39th IEEE International Conference on Telecommunications and Signal Processing (TSP-2016), Vienna, Austria, pp. 519 – 522, IEEE Xplore Digital Library, New York USA.
167. Garima Vyas, Malay Kishore Dutta Jiri Prinosil, Radim Burget "An Automatic Diagnosis and Assessment of Dysarthria Speech using Speech Disorder Specific Prosodic Features" 39th IEEE International Conference on Telecommunications and Signal Processing (TSP-2016), Vienna, Austria, pp. 515 – 518, IEEE Xplore Digital Library, New York USA.
168. Debashree Kashyap, Abhishek Somani, Jatin Shekhar, Radim Burget, Kamil Riha, Anupama Bhan, Malay Kishore Dutta "Cervical Cancer Detection and Classification Using Independent Level Sets and Multi SVMs" 39th IEEE International Conference on Telecommunications and Signal Processing (TSP-2016), Vienna, Austria, pp. 523 – 528, IEEE Xplore Digital Library, New York USA.
169. Jiri Minar, Marek Pinkava, Kamil Riha, Malay Kishore Dutta & Anushikha Singh and H. Tong "Automatic Extraction of Blood Vessels and Veins using Adaptive Filters in Fundus Image" 39th IEEE International Conference on Telecommunications and Signal Processing (TSP-2016), Vienna, Austria, pp. 546 – 549, IEEE Xplore Digital Library, New York USA.
170. Anushikha Singh, Malay Kishore Dutta, Namrata Raghuvanshi, Radim Burget & Jan Masek "An SVD Based Zero Watermarking Scheme for Authentication of Medical Images for Tele-medicine Applications" 39th IEEE International Conference on Telecommunications and Signal Processing (TSP-2016), Vienna, Austria, pp. 511 – 514, IEEE Xplore Digital Library, New York USA.
171. Namita Sengar, Neeraj Mishra, Malay Kishore Dutta, Jiri Prinosil, Radim Burget "Grading of Colorectal Cancer using Histology images" 39th IEEE International Conference on Telecommunications and Signal Processing (TSP-2016), Vienna, Austria, pp. 529 – 532, IEEE Xplore Digital Library, New York USA.
172. Garima Mehta, Malay Kishore Dutta, Radim Burget, Lukas Povoda "Biometric Data Security Using Fractional Fourier Transform and Chaotic Theory" 39th IEEE International Conference on Telecommunications and Signal Processing (TSP-2016), Vienna, Austria, pp. 533 – 537, IEEE Xplore Digital Library, New York USA.
173. Aman Pandey, Ritu Chandra, Malay Kishore Dutta, Radim Burget and Vaclav Uher "Automatic Detection of Red Lesions in Diabetic Retinopathy using Shape Based Extraction Technique in Fundus Image" 39th IEEE International Conference on Telecommunications and Signal Processing (TSP-2016), Vienna, Austria, pp. 538 – 542, IEEE Xplore Digital Library, New York USA.
174. Arpit Bansal, Aashwin Vats, Akshita Jain, Malay Kishore Dutta, Radim Burget and Jiri Prinosil, "An Efficient Automatic Intensity Based Method for Detection of Macula in Retinal Images" 39th IEEE International Conference on Telecommunications and Signal Processing (TSP-2016), Vienna, Austria, pp. 507 – 510, IEEE Xplore Digital Library, New York USA.
175. Abrahán Pérez-Vega, Carlos M. Travieso, José G. Hernández-Travieso, Jesus B. Alonso, Malay Kishore Dutta, Anushikha Singh "Forecast of Temperature using Support Vector Machines" IEEE International Conference on Computing Communication and Automation (ICCCA2016), India, pp. 388-392, IEEE Xplore Digital Library, New York USA.
176. Lukas Povoda, Radim Burget, Malay Kishore Dutta, "Sentiment Analysis Based on Support Vector Machine and Big Data" 39th IEEE International Conference on Telecommunications and Signal Processing (TSP-2016), Vienna, Austria, pp. 543 – 545, IEEE Xplore Digital Library, New York USA.
177. Anushikha Singh, Namita Sengar, Ashish Issac, Malay Kishore Dutta, "An Automated Imaging Algorithm for Detection of Macula in Fundus Images" 9<sup>th</sup> IEEE International Conference on Contemporary Computing, (IC3 – 2016), India, pp. 1-4, IEEE Xplore Digital Library, New York USA.
178. Ashi Agarwal, Ashish Issac, Anushikha Singh, Malay Kishore Dutta "Automatic Imaging Method for Optic Disc Segmentation using Morphological Techniques and Active Contour Fitting" , 9<sup>th</sup> IEEE

- International Conference on Contemporary Computing, (IC3 – 2016), India, pp. 1-5 , IEEE Xplore Digital Library, New York USA.
179. Luis J. Blaanco, Carlos M. Travieso, Jose M. Quinteiro, Pablo V. Hernandez, Malay Kishore Dutta, Anushikha Singh “A Bark Recognition Algorithm for Plant Classification using a Least Square Support Vector Machine” , 9<sup>th</sup> IEEE International Conference on Contemporary Computing, (IC3 – 2016), India, pp. 1-5 , IEEE Xplore Digital Library, New York USA.
  180. Anamika Banwari, Namita Sengar, Malay Kishore Dutta, Carlos M. Travieso, “Automated Segmentation of Colon Gland From Histology Images, 9<sup>th</sup> IEEE International Conference on Contemporary Computing, (IC3 – 2016), India, pp. 1-5 , IEEE Xplore Digital Library, New York USA.
  181. Ashish Issac, Rishabh Madan, Malay Kishore Dutta, Carlos M. Travieso, “Automated detection of bright lesions from contrast normalized fundus images” 9<sup>th</sup> IEEE International Conference on Contemporary Computing, (IC3 – 2016), India, pp. 1-5 , IEEE Xplore Digital Library, New York USA.
  182. Ashmita Gupta, Ashish Issac, Namita Sengar, Malay Kishore Dutta, "An Efficient Automated Method for Exudates Segmentation using Image Normalization and Histogram Analysis", 9<sup>th</sup> IEEE International Conference on Contemporary Computing, (IC3 – 2016), India, pp. 1-5 , IEEE Xplore Digital Library, New York USA.
  183. Arashdeep Kaur, Malay Kishore Dutta, “A Hybrid approach for Optimizing Transparency, Robustness and Capacity of an Audio Watermarking Algorithm” 9<sup>th</sup> IEEE International Conference on Contemporary Computing (IC3 – 2016), India, pp. 1-6, IEEE Xplore Digital Library, New York USA.
  184. Garima Mehta, Malay Kishore Dutta and Pyung Soo Kim, “Biometric Data Encryption Using 3-D Chaotic System” IEEE International Conference on Communication Control and Intelligent System (CCIS-2016), India, pp. 72-75, IEEE Xplore Digital Library, New York USA.
  185. Bhuvan Singh, Swodeep Sahoo, Vikul Kumar, Ashish Issac, Malay Kishore Dutta, “Improved Lip Contour Extraction Using K-Means Clustering and Ellipse Fitting’ IEEE International Conference on Communication Control and Intelligent System (CCIS-2016), India, pp. 99-103, IEEE Xplore Digital Library, New York USA.
  186. Ashish Issac, Namita Sengar, Anushikha Singh, M. Partha Sarathi, Malay Kishore Dutta, Carlos M. Travieso, “Automated Computer Vision Method for Optic Disc Detection from Non-uniform Illuminated Digital Fundus Images” IEEE International Conference on Communication Control and Intelligent System (CCIS-2016), India, pp. 76-80, IEEE Xplore Digital Library, New York USA.
  187. Tobias Kutzner, Ingrid Bönninger, Carlos Travieso, Malay Kishore Dutta, Anushikha Singh, “Study of Long-Term Quality of Online Signature Verification Systems” IEEE International Conference on Communication Control and Intelligent System (CCIS-2016), India, pp. 85-88, IEEE Xplore Digital Library, New York USA.
  188. Alain D. Diaz Alonso, Carlos M. Travieso, Jesús B Alonso, Malay Kishore Dutta, Anushikha Singh, “Biometric Personal Identification System Using Biomedical Sensors, “IEEE International Conference on Communication Control and Intelligent System (CCIS-2016), India, pp. 104-109, IEEE Xplore Digital Library, New York USA.
  189. Verónica Almeida, Carlos M. Travieso, Jesús B. Alonso, Malay Kishore Dutta, Anushikha Singh, “Automatic Age Detection Based on Facial Images, “IEEE International Conference on Communication Control and Intelligent System (CCIS-2016), India, pp. 110-114, IEEE Xplore Digital Library, New York USA.
  190. Varun Gupta, Namita Sengar, Malay Kishore Dutta, “Automated Segmentation of Blood Vasculature from Retinal Images” IEEE International Conference on Communication Control and Intelligent System (CCIS-2016), India, pp. 81-84, IEEE Xplore Digital Library, New York USA.
  191. Xavier Fernando and M.K. Dutta, “Single FBG All Optical De-Multiplexer for SCM ROF Links” International Conference on Signal Processing and Advanced Communication 2016 (SPAAC'16) – McGraw Hill Publications, pp. 1-4.
  192. Abhilasha Singh, Malay Kishore Dutta, Jiri Prinosil, Kamil Riha, “Wavelet Based Robust Watermarking Scheme for Copyright Enforcement and Integrity Control in Tele-Ophthalmology” – 8th International Congress on Ultra Modern Telecommunications and Control Systems, (ICUMT-2016), Lisbon, Portugal, European Union, pp. 408-413, IEEE Xplore Digital Library, New York USA.
  193. Ashish Issac, Namita Sengar, Anushikha Singh, Malay Kishore Dutta, Jiri Prinosil, Kamil Riha “An Efficient Imaging Technique for Automated Macula Localization from Fundus Images” - - 8th International Congress on Ultra Modern Telecommunications and Control Systems, (ICUMT-2016) Lisbon, Portugal, European Union. pp. 387-391, IEEE Xplore Digital Library, New York USA.

194. Anushikha Singh, Malay Kishore Dutta, Radim Burget & Jan Masek, "Identification of Acrylamide in Fried Potato Crisps Using Image Processing in Wavelet Domain" 38th IEEE International Conference on Telecommunications and Signal Processing (TSP-2015), Prague, Europe, pp. 545-549, IEEE Xplore Digital Library, New York USA.
195. Ayushi Agarwal, Shradha Gulia, Somal Chaudhary, Malay Kishore Dutta, Radim Burget and Kamil Riha "Automatic Glaucoma Detection using Adaptive Threshold based Technique in Fundus Image" 38th IEEE International Conference on Telecommunications and Signal Processing (TSP-2015), Prague, Europe, pp. 416-420, IEEE Xplore Digital Library, New York USA.
196. Garima Mehta, Malay Kishore Dutta, Radim Burget, Vaclav Uher, "Edge Based Block Wise Selective Fingerprint Image Encryption Using Chaos" 38th IEEE International Conference on Telecommunications and Signal Processing (TSP-2015), Prague, Europe, pp. 555-559, IEEE Xplore Digital Library, New York USA.
197. Namita Sengar, Malay Kishore Dutta, Radim Burget & Lukas Povoda "2Detection of Diabetic Macular Edema in Retinal Images Using a Region Based Method" 38th IEEE International Conference on Telecommunications and Signal Processing (TSP-2015), Prague, Europe, pp. 262-265, IEEE Xplore Digital Library, New York USA.
198. Vaclav Uher, Radim Burget, Malay Kishore Dutta, Petr Mlynek, "Forecasting Electricity Consumption in Czech republic", 38th IEEE International Conference on Telecommunications and Signal Processing (TSP-2015), Prague, Europe, pp. 412-415, IEEE Xplore Digital Library, New York USA.
199. Jiri Minar, Marek Pinkava, Kamil Riha, Malay Kishore Dutta, Namita Sengar "Automatic Extraction of Blood Vessels and Veins using Laplace Operator in Fundus Image" International Conference on Green Computing and Internet of Things (ICGCIoT 2015), Greater Noida, Delhi, India, pp. 23-26, IEEE Xplore Digital Library, New York, USA.
200. Jiri Prinosil, Ales Krupka, Kamil Riha, Malay Kishore Dutta, Anushikha Singh, "Automatic Hair Color De-identification", International Conference on Green Computing and Internet of Things (ICGCIoT 2015), Greater Noida, Delhi, India, pp. 732-736, IEEE Xplore Digital Library, New York, USA.
201. José G. Hernández-Travieso, Carlos M. Travieso, Jesús B. Alonso, Malay Kishore Dutta, "Applying data normalization for the Solar Radiation Modelling" 11th International Conference on Energy, Environment, Ecosystems and Sustainable Development (EEESD '15), Tenerife, Canary Islands, Spain, January, 2015, pp. 134-139.
202. Anupama Bhan, Ayush Goyal, Malay Kishore Dutta, Dushyant Sankhla, Pankhuri Khanna, Carlos M. Travieso & Jesús B. Alonso Hernández, "Left Ventricle Wall Extraction in Cardiac MRI Using Region Based Level sets and Vector field Convolution" 4th IEEE International Conference and Workshop on Bioinspired Intelligence (IWOBi 2015) San Sebastián, SPAIN - June 10-12, 2015, pp. 133-138, IEEE Xplore Digital Library, New York, USA.
203. Jai Saxena, Kapish Teckchandani, Prithu Pandey, ManMohan, Malay Kishore Dutta, Carlos M. Travieso & Jesús B. Alonso Hernández, "Palm Vein Recognition using Local Tetra Patterns" 4th IEEE International Conference and Workshop on Bioinspired Intelligence (IWOBi 2015) San Sebastián, SPAIN - June 10-12, 2015, pp. 151-156, IEEE Xplore Digital Library, New York, USA.
204. Manmohan, R. Prem Kumar, Rachit Agrawal, Surbhi Sharma, Malay Kishore Dutta, Carlos M. Travieso & Jesús B. Alonso Hernández, "Finger Vein Recognition Using Integrated Responses of Texture Features" 4th IEEE International Conference and Workshop on Bioinspired Intelligence (IWOBi 2015) San Sebastián, SPAIN - June 10-12, 2015, pp. 209-214, IEEE Xplore Digital Library, New York, USA.
205. Ayushi Agarwal, Shradha Gulia, Somal Chaudhary, Malay Kishore Dutta, Carlos M. Travieso & Jesús B. Alonso Hernández "A Novel Approach to Detect Glaucoma in Retinal Fundus Images using Cup-Disk and Rim-Disk Ratio" 4th IEEE International Conference and Workshop on Bioinspired Intelligence (IWOBi 2015) San Sebastián, SPAIN - June 10-12, 2015, pp. 139-144, IEEE Xplore Digital Library, New York, USA.
206. Anupama Bhan, Ayush Goyal, Malay Kishore Dutta & Kamil Riha, "Image-based fuzzy c-means clustering and connected component labeling subsecond fast fully automatic complete cardiac cycle left ventricle segmentation in multi frame cardiac MRI images" - 7th IEEE International Congress on Ultra Modern Telecommunications and Control Systems, Brno, Czech Republic 2015, pp. 339-342, IEEE Xplore Digital Library, New York, USA.
207. Anushikha Singh, Namita Sengar, Malay Kishore Dutta & Kamil Riha "Automatic Exudates Detection in fundus image using Intensity Thresholding and Morphology" -7th IEEE International Congress on Ultra

- Modern Telecommunications and Control Systems, Brno, Czech Republic 2015, pp. 330-334, IEEE Xplore Digital Library, New York, USA.
208. Chandni, Garima Vyas, Malay Kishore Dutta & Kamil Riha “An Automatic Emotion Recognizer using MFCCs and Hidden Markov Models” -7th IEEE International Congress on Ultra Modern Telecommunications and Control Systems, Brno, Czech Republic, 2015, pp. 320-324, IEEE Xplore Digital Library, New York, USA.
  209. Lukas Povoda, Akshaj Arora, Sahitya Singh, Radim Burget, Malay Kishore Dutta, “Emotion Recognition from Helpdesk Messages” 7th IEEE International Congress on Ultra Modern Telecommunications and Control Systems, Brno, Czech Republic, 2015, pp. 310-313, IEEE Xplore Digital Library, New York, USA.
  210. Lukas Povoda, Radim Burget, Jan Masek and Malay Kishore Dutta “Job Shop Scheduling Problem with Heuristic Genetic Programming Operators” – International Conference on Signal Processing and Integrated Networks, 2015, pp-702-707, IEEE Xplore Digital Library, New York, USA.
  211. Namita Sengar, Malay Kishore Dutta, Partha Sarathi Mangipudi and Radim Burget, ” Extraction of Retinal Vasculature by using morphology in Fundus Images” – International Conference on Signal Processing and Integrated Networks, 2015, pp-139-142, IEEE Xplore Digital Library, New York, USA.
  212. Josué Cabrera, Carlos M. Travieso, Jesús B. Alonso and Miguel A. Ferrer, Malay Kishore Dutta, Anushikha Singh, “Emotional States Discrimination in Voice in Secure Environments – International Conference on Signal Processing and Integrated Networks, 2015, pp-843-847, IEEE Xplore Digital Library, New York, USA.
  213. Ashish Issac, Partha Sarathi Mangipudi and Malay Kishore Dutta, “An Adaptive Threshold Based Algorithm for Optic Disc and Cup Segmentation in Fundus Images” – International Conference on Signal Processing and Integrated Networks, 2015, pp-143-147, IEEE Xplore Digital Library, New York, USA.
  214. Bowen Peng, Shuping Dang, Malay Kishore Dutta, “Feature Detection and Parameters Calculation of Arbitrary Ellipse Based on Image Processing Technology” – International Conference on Signal Processing and Integrated Networks, 2015, pp-418-420, IEEE Xplore Digital Library, New York, USA.
  215. Bowen Peng, Shuping Dang, Nadim Hossain, Malay Kishore Dutta, “Shape Matching and Feature Extraction of Cross Based on Fourier Transform and Specific Spatial Matching” – International Conference on Signal Processing and Integrated Networks, 2015, pp-662-665, IEEE Xplore Digital Library, New York, USA.
  216. Joydeep Tamuli, Aishwarya Jain, Aishwarya V. Dhan, Anupama Bhan, Malay Kishore Dutta, “An Image Processing Based Method to Identify and Grade Conjunctivitis Infected Eye According to its Types and Intensity”- IEEE International conference on Contemporary Computing, Noida, India, 2015, pp- 88-92, IEEE Xplore Digital Library, New York, USA.
  217. Juan J. Noda Arencibia, Carlos M. Travieso & David Sánchez-Rodríguez, Malay Kishore Dutta, Garima Vyas “Automatic Classification of Frogs Calls based on Fusion of Features and SVM” ”- IEEE International conference on Contemporary Computing, Noida, India, 2015, pp- 59-63, IEEE Xplore Digital Library, New York, USA.
  218. Tobias Kutzner, Fanyu Ye, Ingrid Bönninger, Carlos Travieso, Malay Kishore Dutta, Anushikha Singh “User Verification using Safe Handwritten Passwords on Smartphones” IEEE International conference on Contemporary Computing, Noida, India, 2015, pp- 48-53, IEEE Xplore Digital Library, New York, USA.
  219. Marcos DelPozo-Banos, Carlos M. Travieso, Jaime R. Ticay-Rivas, Jesús B. Alonso, Malay Kishore Dutta, Anushikha Singh, “Real Cepstrums on Electroencephalogram Biometric Identification” IEEE International conference on Contemporary Computing, Noida, India, 2015, pp- 54-58, IEEE Xplore Digital Library, New York, USA.
  220. Shrey Magotra, Aditya Kunwar, Namita Sengar, Partha Mangipudi, Malay Kishore Dutta, “ *Hierarchical Classification and Grading of Diabetic Macular Edema using Texture Features*” IEEE International Conference on Image Information Processing 2015, pp-185-189, IEEE Xplore Digital Library, USA.
  221. Jesús. B. Alonso, Josue Cabrera, Miguel A. Ferrer, Jose M. Canino, Carlos M. Travieso, Malay Kishore Dutta & Anushikha Singh, “Emotional Speech Characterization for Real Time Applications in Real Environments” International Conference on Medical Imaging, m- Health & Emerging Communication System (MEDCOM 2014), Nov 2014, pp. 152-156, IEEE Xplore, Digital Library, New York USA.
  222. Malay Kishore Dutta, Amit Kumar Mourya, Anushikha Singh, M Parthasarathi, Radim Burget & Kamil Riha, “Glaucoma Detection by Segmenting the Super Pixels from Fundus Colour Retinal Images” International Conference on Medical Imaging, m- Health & Emerging Communication System (MEDCOM 2014), Nov 2014, pp. 86-90, IEEE Xplore, Digital Library, New York USA.



223. Jan Karásek, Radim Burget, Lukas Povoda, Malay Kishore Dutta & Anushikha Singh, "Genetic Programming Operators for Work-Flow Optimization in Logistic Distribution Centers" International Conference on Medical Imaging, m- Health & Emerging Communication System (MEDCOM 2014), Nov 2014, pp. 105-109, IEEE Xplore, Digital Library, New York USA.
224. Vaclav Uher, Radim Burget, Jan Karasek, Jan Masek, Malay Kishore Dutta & Anushikha Singh, "Automatic Image Labeling using Similarity Measures" International Conference on Medical Imaging, m-Health & Emerging Communication System (MEDCOM 2014), Nov 2014, pp. 101-104, IEEE Xplore, Digital Library, New York USA.
225. Shaunak Ganguly, Shaumik Ganguly, Kshitij Srivastava, Malay Kishore Dutta, M. Parthasarathi, Radim Burget & Kamil Riha, "An Adaptive Threshold Based Algorithm for Detection of Red Lesions of Diabetic Retinopathy in a Fundus Image, International Conference on Medical Imaging, m- Health & Emerging Communication System (MEDCOM 2014), Nov 2014, pp. 91-94, IEEE Xplore, Digital Library, New York USA.
226. Garima Mehta, Malay Kishore Dutta & Pyung Soo Kim, "An Efficient & Secure Encryption Scheme for Biometric Data Using Holmes Map & Singular Value Decomposition", International Conference on Medical Imaging, m- Health & Emerging Communication System (MEDCOM 2014), Nov 2014, pp. 211-215, IEEE Xplore, Digital Library, New York USA.
227. Abhilasha Singh & Malay Kishore Dutta, "A Blind & Fragile Watermarking Scheme for Tamper Detection of Medical Images Preserving ROI", International Conference on Medical Imaging, m- Health & Emerging Communication System (MEDCOM 2014), Nov 2014, pp. 230-234, IEEE Xplore, Digital Library, New York USA.
228. Jan Karasek, Radim Burget & Malay Kishore Dutta, Anushikha Singh "Java Evolutionary Framework based on Genetic Programming" – International Conference on Signal Processing and Integrated Networks, 2014, pp-606-612, Proceedings published by IEEE Xplore, New York, USA.
229. Anushikha Singh, Malay Kishore Dutta & Carlos M. Travieso, "Digital Right Management Control for Joint Ownership of Digital Images using Biometric Features" - International Conference on Signal Processing and Integrated Networks, 2014, pp 164-167, Proceedings published by IEEE Xplore, New York, USA.
230. Aleš Krupka, Jiří Přinosil, Kamil Říha & M.K. Dutta, "Hair Segmentation for Color Estimation in Surveillance Systems" The Sixth International Conferences on Advances in Multimedia, MMEDIA 2014, Nice, France, pp. 102-107, ISBN: 978-1-61208-320-9. Proceedings Published by IARIA XPS Press.
231. Malay Kishore Dutta, Anushikha Singh & Radim Burget, "Generation of Digital Signature from Multi-Feature Biometric Traits for DRM control" IEEE International Conference in Recent advances in Engineering & Computational Sciences, Chandigarh, India, March 2014, pp. 1- 4. Proceedings published by IEEE Xplore, New York, USA.
232. Garima Vyas, Malay Kishore Dutta & Hicham Atassi, "Detection of Chorus from an Audio Clip Using Dynamic Time Warping Algorithm"- IEEE International Conference in Recent advances in Engineering & Computational Sciences, Chandigarh, India, March 2014, pp. 1-6. Proceedings published by IEEE Xplore, New York, USA.
233. M. Machado Molina, I. Bönninger, Malay Kishore Dutta, Carlos M. Travieso, "Gait-based recognition of humans using Kinect Camera" – 8th International Conference on Computer Engineering and Applications (CEA14), Tenerife, Spain, 2014, pp-63-71. Proceedings published by WSEAS Press, Greece.
234. Carlos M. Travieso, Malay Kishore Dutta, Jordi Solé-Casals and Jesús B. Alonso, "Detection and tracking of the human hot spot" International Conference on Bio-inspired Systems and Signal Processing, Angers, France, pp-325-330, Proceedings published by Scitepress, Portugal, 2014.
235. Jan Masek, Radim Burget, Jan Karasek, Vaclav Uher and M. K. Dutta, "Multi-GPU Implementation of k-Nearest Neighbour Algorithm" 37th IEEE International Conference on Telecommunications and Signal Processing (TSP-2014) July 2014, Berlin, Germany, pp- 652-655.
236. Pavel Novák, Radim Burget, Jan Karasek, and Malay Kishore Dutta, "Single Template Object Detector Based on Histogram of Oriented Gradients" 37th IEEE International Conference on Telecommunications and Signal Processing (TSP-2014) July 2014, Berlin, Germany, pp. 764-767, IEEE Xplore, Digital Library, New York USA.
237. Jan Karasek, Radim Burget, Vaclav Uher, and Malay Kishore Dutta "Color Image (Dis)Similarity Assessment and Grouping based on Dominant Colors" 37th IEEE International Conference on Telecommunications and Signal Processing (TSP-2014) July 2014, Berlin, Germany, pp-756-759, IEEE Xplore, Digital Library, New York USA.



238. Shaumik Ganguly, Kshitij Srivastava, Shaunak Ganguly, Malay Kishore Dutta, M. Parthasarathi, Radim Burget, Jan Masek "An Efficient Grading Algorithm for Non-Proliferative Diabetic Retinopathy using Region Based Detection" 37th IEEE International Conference on Telecommunications and Signal Processing (TSP-2014) July 2014, Berlin, Germany, pp-743-747, IEEE Xplore, Digital Library, New York USA.
239. Kshitij Srivastava, Shaunak Ganguly, Shaumik Ganguly, Malay Kishore Dutta, M. Parthasarathi, Radim Burget, Jiri Prinosisil "Exudates Detection in Digital Fundus Image Using Edge Based Method & Strategic Thresholding" 37th IEEE International Conference on Telecommunications and Signal Processing (TSP-2014) July 2014, Berlin, Germany, pp- 748-752, IEEE Xplore, Digital Library, New York USA.
240. Malay Kishore Dutta, Anushikha Singh, Abhilasha Singh, Radim Burget, Jiri Prinosisil "Digital Identification Tags for Medical Fundus Images for Tele-Ophthalmology Applications" 37th IEEE International Conference on Telecommunications and Signal Processing (TSP-2014) July 2014, Berlin, Germany, pp- 781-784, IEEE Xplore, Digital Library, New York USA.
241. M. Parthasarathi, M.A. Ansari, Malay Kishore Dutta, Radim Burget & Kamil Riha, "2D Brain Slice Retrieval from Brain MR Images using feature point maps" 37th IEEE International Conference on Telecommunications and Signal Processing (TSP-2014) July 2014, pp. 772-775, IEEE Xplore, Digital Library, New York USA.
242. Akhilesh Sharma, Malay Kishore Dutta, Anushikha Singh, M. Parthasarathi & Carlos M. Travieso, "Dynamic Thresholding Technique for Detection of Hemorrhages in Retinal Images", Seventh IEEE International Conference in Contemporary Computing, August 2014, pp. 113 - 116, Proceedings published by IEEE Xplore, New York, USA
243. Arashdeep Kaur, Malay Kishore Dutta, K.M. Soni and Nidhi Taneja, "A High Payload Audio Watermarking Algorithm Robust against Mp3 Compression" Seventh IEEE International Conference in Contemporary Computing, August 2014, pp. 531 - 535, Proceedings published by IEEE Xplore, New York, USA
244. José G. Hernández-Travieso, Carlos M. Travieso, Malay Kishore Dutta & Jesús B. Alonso, "Solar radiation modeling for the estimation of the solar energy generation" Seventh IEEE International Conference in Contemporary Computing, August 2014, pp. 536 - 541, Proceedings published by IEEE Xplore, New York, USA
245. Deepti Yadav, M. Parthasarathi & Malay Kishore Dutta, "Classification of Glaucoma Based on Texture Features Using Neural Networks" Seventh IEEE International Conference in Contemporary Computing, August 2014, pp. 109 - 112, Proceedings published by IEEE Xplore, New York, USA
246. Garima Vyas, Malay Kishore Dutta, "An Integrated Spoken Language Recognition System using Support Vector Machines" Seventh IEEE International Conference in Contemporary Computing, August 2014, pp. 105 - 108, Proceedings published by IEEE Xplore, New York, USA.
247. Garima Vyas, Vasvi Marwaha & Malay Kishore Dutta, "Automatic Mood Detection of Indian Music Using MFCCs and K-means Algorithm" Seventh IEEE International Conference in Contemporary Computing, August 2014, pp. 117 - 122, Proceedings published by IEEE Xplore, New York, USA
248. Arashdeep Kaur, Malay Kishore Dutta, K.M. Soni and Nidhi Taneja, "A Secure and High Payload Digital Audio Watermarking Using Features From Iris Image" IEEE International Conference on Contemporary Computing and Informatics", 2014, pp. 509-512.
249. Garima Mehta, Malay Kishore Dutta, Carlos M. Travieso-González & Pyung Soo Kim, "Edge Based Selective Encryption Scheme for Biometric Data Using Chaotic Theory" IEEE International Conference on Contemporary Computing and Informatics", 2014, pp. 383-386.
250. Malay Kishore Dutta, Anushikha Singh, M. Parthasarathi & Carlos M. Travieso, "Imperceptible Digital Watermarking in Medical Retinal Images for Tele-Medicine Applications" IEEE International Conference on Contemporary Computing and Informatics", 2014, pp. 517-521.
251. Anushikha Singh, Malay Kishore Dutta, M. Parthasarathi, Radim Burget & Kamil Riha, "An Efficient Automatic Method of Optic Disc Segmentation using Region Growing Technique in Retinal Images" IEEE International Conference on Contemporary Computing and Informatics", 2014, pp. 480-484.
252. Malay Kishore Dutta, Anushikha Singh, Radim Burget, Hicham Attasi, Ankur Choudhary & K.M. Soni "Generation of Biometric Based Unique Digital Watermark from Iris Image" 36th IEEE International Conference on Telecommunications and Signal Processing (TSP-2013) July 2013, Rome, Italy, pp 685-689, Published by IEEE, New York USA.
253. Malay Kishore Dutta, Anushikha Singh, K.M. Soni, Radim Burget & Kamil Riha "Watermark Generation from Fingerprint Features for Digital Right Management Control" 36th IEEE International Conference on

- Telecommunications and Signal Processing (TSP-2013) July 2013, Rome, Italy, pp-717-721, Published by IEEE, New York USA.
254. M Partha Sarathi, M. A. Ansari, Vaclav Uher, Radim Burget & M.K.Dutta, "Automated Brain Tumor Segmentation using Novel Feature Point detector and Seeded Region Growing" 36th IEEE International Conference on Telecommunications and Signal Processing (TSP-2013) July 2013, Rome, Italy. – pp. 648-651. Published by IEEE, New York USA.
  255. Yara Omran, Kamil Riha, Malay Kishore Dutta "Automatic Estimation of the Arterial Parameters in Ultrasound Video Sequence" 36th IEEE International Conference on Telecommunications and Signal Processing (TSP-2013) July 2013, Rome, Italy, pp 835-838, Published by IEEE, New York USA.
  256. Radim Burget, Jayendra Kumar Rai, Vaclav Uher, Jan Masek, M.K.Dutta "Supervised Video Scene Segmentation using Similarity Measures" 36th IEEE International Conference on Telecommunications and Signal Processing (TSP-2013) July 2013, Rome, Italy, pp 793-797, Published by IEEE, New York USA.
  257. Petr Cika, Martin Zukal, Zdenek Libis, Malay Kishore Dutta, "Tracking and Speed Estimation of Selected Object in Video Sequence" 36th IEEE International Conference on Telecommunications and Signal Processing (TSP-2013) July 2013, Rome, Italy, pp 881-884, Published by IEEE, New York USA.
  258. Vaclav Uher, Radim Burget, Jan Masek, Malay Kishore Dutta, "3D Brain Tissue Selection and Segmentation from MRI" 36th IEEE International Conference on Telecommunications and Signal Processing (TSP-2013) July, Rome, Italy July 2013, pp 839-842, Published by IEEE, New York USA.
  259. Malay Kishore Dutta, Anushikha Singh, K.M.Soni, Radim Burget & Kamil Riha, "Watermarking of Digital Media with Encrypted Biometric Features for Digital Ownership" – International Conference in Contemporary Computing, Noida, India, Aug 2013, pp. 108-112. Proceedings published by IEEE, New York, USA.
  260. Ondrej Smirg, Zdenek Smekal, Malay Kishore Dutta, 'Automatic Detection of the Direction and Speed of Moving Objects in the Video' – International Conference in Contemporary Computing, Noida, India, Aug 2013, pp. 86-90. Proceedings published by IEEE, New York, USA.
  261. Jan Karasek, Vaclav Uher, Radim Burget & Malay Kishore Dutta "Optimization of Logistic Distribution Centres Process Planning and Scheduling" - International Conference in Contemporary Computing, Noida, India, Aug 2013, pp. 343-348. Proceedings published by IEEE, New York, USA.
  262. Arashdeep Kaur, Malay Kishore Dutta, K.M.Soni and Nidhi Taneja, "A Blind Audio Watermarking Algorithm Robust Against Synchronization Attacks" *IEEE International Conference on Signal Processing, Computing and Control (2013 IEEE ISPCC) – September 2013, pp.1-5*, Proceedings published by IEEE Xplore, New York, USA.
  263. Malay Kishore Dutta, Anushikha Singh, K.M.Soni & Tanveer A Zia, "An Efficient and Secure Digital Image Watermarking Using Features from Iris Image"- *IEEE International Conference on Control, Communication and Computing, December 2013, pp.1-6*, Proceedings published by IEEE Xplore, New York, USA.
  264. Garima Mehta, Malay Kishore Dutta, Jan Karasek & Pyung Soo Kim, "An Efficient and Lossless Fingerprint Encryption Algorithm using Henon Map and Arnold Transformation" - *IEEE International Conference on Control, Communication and Computing, December 2013, pp.1-6*, Proceedings published by IEEE Xplore, New York, USA.
  265. Yara Omran, Kamil Riha & Malay Kishore Dutta, "Artery wall detection based on image profile Classification" – 15<sup>th</sup> International Conference on Research in Telecommunication Technologies, Slovak Republic, European Union, Aug 2013. pp.64 to 67. ISBN-978-80-227-4026-5.
  266. Shashank Shekhar, Harshita Srivastava and Malay Kishore Dutta "An Efficient Adaptive Encryption Algorithm for Digital Images" International Journal of Computer and Electrical Engineering (IJCEE), Vol. 4, No. 3, June 2012, pp.380-383, International Association of Computer Science & Information Technology Press. Singapore.
  267. Ankit Murarka, Anshul Vashist and Malay Kishore Dutta, "A Blind Watermarking Algorithm for Audio Signals Based on Singular Value Decomposition", Third International Conference on Recent Trends in Information, Telecommunication and Computing – ITC 2012, Bangalore, pp. 383-388 Proceedings published by Springer Verilog Publishers, Germany.
  268. Sourabh Dimri, Sudhir Singh, Arashdeep Kaur & M.K Dutta, "A Robust Watermarking Algorithm Based on Multi Resolution Decomposition of Audio Signal", 3rd International Conference on Computer and Communication Technology (ICCT-2012) , MNIT, Allahabad, pp-299-302, Proceedings published by the IEEE, USA.

269. Ankit Murarka, Anshul Vashist, Malay Kishore Dutta “A Blind Watermarking Algorithm for Audio Signals Based on Singular Value Decomposition, Discrete Wavelet Transform and Chaotic Mapping” - NUICONE 2012, Ahmedabad, pp. 1-5, Proceedings published by the IEEE, USA. DOI: 10.1109/NUICONE.2012.6493173.
270. Malay Kishore Dutta, Vinay K. Pathak and Phalguni Gupta “ A Robust Watermarking Algorithm for Audio Signals using SVD” – International Conference on Contemporary Computing, CCIS Vol. 94, Part 1 , 2010, pp. 84–93, Noida, India. Published by Springer Verilog Publishers, Berlin Heidelberg, Germany.
271. Malay Kishore Dutta, Phalguni Gupta and Vinay K. Pathak, “Biometric Based Unique Key Generation for Authentic Audio Watermarking” Audio Watermarking”- Proceedings of International Conference on Pattern Recognition and Machine Intelligence, LNCS, Vol. 5909, 2009, pp- 458-463, IIT Delhi, India, Published by Springer Verilog Publishers, Berlin Heidelberg, Germany.
272. Malay Kishore Dutta, Phalguni Gupta and Vinay K. Pathak “An Efficient Algorithm for Blind Source Separation of Audio Mixtures” –International Conference on Advances in Recent Technologies in Communication and Computing, 2009, pp-136 -140, Kottiyam, India. Published by IEEE Computer Society, New York USA.
273. Malay Kishore Dutta, Phalguni Gupta and Vinay K. Pathak “Biometric Based Audio watermarking” – International Conference in Multimedia Information and Networking Security, 2009, pp- 10-14, Wuhan, China. Published by IEEE Computer Society, USA.
274. Malay Kishore Dutta, Phalguni Gupta and Vinay K. Pathak “Perceptible Watermarking for Digital Right Management Control” – International Conference on Information, Communications and Signal Processing, IEEE Communications Society, 2009, pp-1-5, Macau, SAR China. Published by IEEE, New York USA.
275. Malay Kishore Dutta, Phalguni Gupta and Vinay K. Pathak “Blind Watermarking in Audio Signals using Biometric Features in Wavelet Domain”, International Conference of IEEE Region 10, TENCON 2009, 2009, pp-1-5, Singapore. Published by IEEE, New York USA.