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Area of Expertise: Microprocessor programming, Image processing algorithm development, Integration & testing machine vision system

LIST OF PUBLICATIONS (Last 5 years)

JOURNALS

1. A Anne Frank Joe, A Gopal and R Pandian, Performance Evaluation of Chemometric Prediction Models- Key Components of Wheat Grain, **JSIR** Vol 79(02),148-152,2020.
2. L.Madan kumar, A.Gopal ,Near Infra-red reflectance spectroscopy based on line moisture measurement in copra, **International Journal of Food Process Engineering**.-2020;e13383-WILEY periodicals.
3. Vadivel, A.Gopal, Microscopic, phytochemical, HPTLC, GC-MS and NIRS methods to differentiate the herbal adulterants: Pepper and papaya seeds, **Journal of Herbal Medicine**-11,2018(36-45).ELSEVIER
4. Mrs.T.Vijayashree & A.Gopal, Identification of herbal medicinal plant leaves using Image Processing Algorithm-Review, **Journal of Pharmaceutical, Biological and Chemical Sciences**, 9(4). pp1221-1228, 2018
5. S.Md.Iqbal & A.Gopal, Development of an Innovative Directing Mechanism for Sorting of Citrus Fruits, **Journal of Advanced Research in Dynamical and Control Systems (JARDCS)**, Vol. 9, Issue17- Special Issue on Engg and Informatics, 2017, pp.1661-1672.
6. T.Vijayashree, A.Gopal, Extraction of Texture and Color features for the identification of diseased herbal medicinal leaves using a Raspberry pi processor, **Journal of Pharmaceutical, Biological and Chemical Sciences**, 9(4). pp 1229-1236, 2018
7. A. Anne Frank Joe, A. Gopal, Variety identification of Indian wheat grains: A simple approach using image processing, **Journal of Advanced Research in Dynamical and Control Systems**, ISSN: 1943-023X- Vol 11, pp 82-86,2018.
8. Gopal, Ram Kumar, Mudiganti Rao, Singh Sanjay Kumar, Authentication of Ayurvedic Medicine Trikatu Churna Using Near Infrared Spectroscopy-A Novel Approach, **Indo American journal of Pharmaceutical Research** – Vol 17 (11),947-953,2017.
9. C.Kumaravelu & A.Gopal, Rapid Method for determination of Cotton seed Oil, Protein and Starch using Near Infrared Reflectance Spectroscopy, **Journal of Advance research in determined & compared system** volume 10;07; 2018 ID-2123-2128.
10. Anne frank joe, A.Gopal, A study of various pre-processing techniques used for NIRS, **International journal of pharmaceutical, biological and chemical science** –Vol 7 (4) p 2712-2757, July-August, 2016.
11. T. Vijayashree, A.Gopal, Database formation for authentication of tulsi leaf using image processing technique, **Gate to Computer Vision and Pattern Recognition (gtCVPR)** vol. 1, no. 1, pp. 9-17, 2015 doi:10.15579/gtcvpr. 0101.009017.
12. S. Md. Iqbal, A. Gopal, P.E. Sankaranarayanan & Athira B. Nair (2016) Classification of Selected Citrus Fruits Based on Color Using Machine Vision System, **International Journal of Food Properties**, 19:2, 272-288, DOI: 10.1080/10942912.2015.1020439
13. Quality Evaluation of Honey using Multivariate Analysis C.Kumaravelu, G.Rajalakshmi, A.Gopal, Y. Prateek Reddy, **Middle-East Journal of Scientific Research 23 (Sensing, Signal Processing and Security)**: 12-17, 2015.
14. S. Md. Iqbal, A. Gopal, P.E. Sankaranarayanan & Athira B. Nair (2016) Classification of Selected Citrus Fruits Based on Color Using Machine Vision System, **International Journal of Food Properties**, 19:2, 272-288, DOI: 10.1080/10942912.2015.1020439.