

CONTACT DETAILS

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RESEARCH INTERESTS

Video Compression	Contourlet Transform
Image Compression	Color Spaces
Wavelet Transform	JND-based Quantization

EDUCATION

Doctor of Philosophy (Ph. D. Candidate) (CGPA 9.57/10) 2014-2019 (Expected)
Visvesvaraya National Institute of Technology, Nagpur, India

- Thesis: Image and Video Compression Techniques in CIE La^*b^* Color Space.
- Relevant Courses: Pattern Recognition, Image Analysis and Computer Vision.

Master of Technology (Communication Systems Engineering) (CGPA 8.96/10) 2012-2014
Visvesvaraya National Institute of Technology, Nagpur, India

- Project: Histogram-based segmentation of color images using Genetic Algorithms.
- Relevant Courses: Fuzzy Logic and Neural Networks, Advanced Digital Signal Processing, Digital Image processing, Statistical Signal Analysis, Embedded Systems.

Bachelor of Engineering (Electronics & Comm. Engg.) (73.71%)(1st Division) 2007-2011
Shri Ramdeobaba Kamla Nehru Engineering College, Nagpur, India

- Project: Detecting speed of cars using video sequences.

PUBLICATIONS

Journals

1. **S. Y. Kahu**, K. M. Bhurchandi, "A low-complexity, sequential video compression scheme using frame differential directional filter bank decomposition in CIE La^*b^* color space," *IEEE Access*, vol. 5, pp. 14914-14929, 2017.
2. **S. Y. Kahu**, K. M. Bhurchandi, "JPEG-based variable block-size image compression using CIE La^*b^* color space," *KSII Transactions on Internet and Information Systems.*, vol. 12, no. 10, pp. 5056 - 5078, 2018.
3. **S. Y. Kahu**, R. B. Raut, K. M. Bhurchandi, "Review and evaluation of color spaces for image/video compression," *Color Research and Application, Wiley*, vol. 44, no. 1, pp. 8 - 33, 2019.

Conference

1. P. Sneha Latha, Pawan Kumar, **S. Y. Kahu**, K. M. Bhurchandi, "Segmentation of color images using genetic algorithm with image histogram," *Proc. SPIE 9445, 7th International Conference on Machine Vision 2014*, Milano, Italy.

Poster Presentation

1. **S. Y. Kahu**, R. Rahate, K. M. Bhurchandi, "An improved JPEG image compression algorithm," *16th Irish Machine Vision and Image Processing Conference 2014*, Northern Ireland, UK.

PROFESSIONAL EXPERIENCE

Associate SQA Engineer

2011-2012

Marvell India Pvt. Ltd., Pune, India

Pre-certification testing of Wi-Fi devices and access points.

Research and Teaching Assistant

2014-2018

Department of Electronics and Communication Engineering,

Visvesvaraya National Institute of Technology, Nagpur, India

Assist in teaching and grading for a class and execute tasks related to academic research.

SKILLS

Programming Languages

MATLAB, C, Java

Softwares

JM reference software for H.264

REFERENCES

Available upon request