Srimanta MANDAL

PERSONAL DATA

DATE OF BIRTH: 02-Oct-1987

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GOOGLE SCHOLAR: https://scholar.google.co.in/citations?user=spX3QwcAAAAJ&hl=en

EDUCATION

2010 - Present Ph.D. in IMAGE PROCESSING

School of Computing and Electrical Engineering Indian Institute of Technology Mandi, HP, India CGPA: 9/10 | Topic: Image Super-resolution

Thesis: "NOVEL APPROACHES FOR SUPER RESOLUTION OF INTENSITY/RANGE IMAGE USING SPARSE REPRESENTATION"

Supervisor: Dr. Anil K. SAO

JULY 2010 Bachelor of Technology in Electronics & Communication Engineering

Asansol Engineering College,

West Bengal University of Technology, WB, India

CGPA: 8.38/10

RESEARCH INTERESTS

Computer vision and image processing, Pattern Recognition

EXPERIENCE

2010-2016 (During Ph.D.)

Teaching Assistant at Indian Institute of Technology Mandi, HP, India Major Subjects: Digital Image Processing, Digital Signal Processing, Signals

& Systems, Computer Organization, Control Systems

Responsibilities: Conducting tutorials, Evaluating assignments, Conducting laboratories,

Coordinating examinations, Maintaining records of students

SUMMER 2012

Summer Intern at SAMSUNG R&D INSTITUTE, Noida, India

Project: Video Scale-up Enhancement.

Received pre-placement offer from Samsung as a result of very positive review.

COMPUTER SKILLS

Languages: MATLAB, OCTAVE, Basics of ASSEMBLY LANGUAGE using NASM

Environment: WINDOWS, UBUNTU

Other Software: PSPICE, LATEX, Visio, Excel, Word, PowerPoint

LANGUAGES

BENGALI: Mother-tongue

ENGLISH: Fluent

HINDI: Basic Knowledge

PUBLICATIONS IN JOURNAL

- S. Mandal, A. Bhavsar and A. K. Sao, "Depth Map Restoration from Under-sampled Data," *IEEE Transactions on Image Processing*, vol. 26, no. 1, pp. 119-134, Jan. 2017.
- S. Mandal, A. Bhavsar and A. K. Sao, "Noise Adaptive Super-Resolution from Single Image via Non-Local Mean and Sparse Representation," *Signal Processing*, vol. 132, pp. 134-149, Mar. 2017.
- S. Mandal and A. K. Sao, "Employing structural and statistical information to learn dictionary(s) for single image super-resolution in sparse domain," *Signal Processing: Image Communication*, vol. 48, pp. 63-80, Oct. 2016.
- S. Mandal, S. Thavalengal, and A. K. Sao, "Explicit and implicit employment of edgerelated information in super-resolving distant faces for recognition," *Pattern Analysis* and *Applications*, vol. 19, no. 3, pp. 867-884, Aug. 2016.

PUBLICATIONS IN CONFERENCES

- S. Mandal, S. Kumari, A. Bhavsar, and A. K. Sao, "Multi-Scale Image Denoising While Preserving Edges in Sparse Domain," in *Proceedings of the European Workshop on Visual Information Processing (EUVIP)*, Oct. 2016.
- S. Mandal, A. Bhavsar, and A. K. Sao, "Super-resolving a single intensity/range image via non-local means and sparse representation," in *Indian Conference on Computer Vision, Graphics and Image Processing (ICVGIP)*, Dec. 2014, pp. 1-8.
- S. Mandal, A. Bhavsar, and A. K. Sao, "Hierarchical example-based range-image super-resolution with edge-preservation," in *IEEE International Conference on Image Processing (ICIP)*, Oct. 2014, pp. 3867-3871.
- S. Thavalengal., S. Mandal and A. K. Sao, "Significance of Dictionary for Sparse Coding Based Pose Invariant Face Recognition," in *Proceedings of the Twentieth National Conference on Communications (NCC)*, Feb. 2014, pp. 1-5.
- S. Mandal and A. K. Sao, "Image De-blurring in Super Resolution Framework," in *Proceedings of the National Conference on Computer Vision, Pattern Recognition, Image Processing and Graphics (NCVPRIPG)*, Dec. 2013, pp. 1-4.
- S. Mandal and A. K. Sao, "Edge preserving single image super resolution in sparse environment," in 20^{th} IEEE International Conference on Image Processing (ICIP), Sept. 2013, pp. 967–971.

ACHIEVEMENT

• Travel grant from Indian Institute of Technology Mandi, for presenting at International Conference on Image Processing 2014, Paris, France.

PROFESSIONAL ACTIVITIES

- Served as a reviewer for various journals and conferences including
 Journals: IEEE Signal Processing Letter, Neurocomputing (Elsevier).

 Conferences: International Conference on Signal Processing and Communications (SPCOM-2014), Workshop on Signal Processing, Image Processing and Pattern Recognition (SIPR-2015).
- IEEE Graduate Student Member in Delhi Section of Asia and Pacific Region.

INVITED TALKS

JANUARY 2014 | "IMAGE SUPER-RESOLUTION: AN OVERVIEW"

MCKV Institute of Engineering (in association with IEEE Kolakta section),

Kolkata, India.

DECEMBER 2013 | "A GLIMPSE OF DIGITAL IMAGE PROCESSING"

Bells Institute of Management & Technology, Shimla, India.

REFERENCES

References can be provided on request.