Rameswar Panda

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Research Interests

Computer Vision: Video Summarization, Person Re-Identification
Machine Learning: Deep Learning, Sparse Coding

Education

2014-Present | **University of California, Riverside**
Ph.D. in Electrical and Computer Engineering, Advisor: Amit K. Roy-Chowdhury
Thesis: Beyond Supervised Learning: Summarizing Videos with Incidental Supervision

2011-2013 | **Jadavpur University, India**
M.S. in Computer Engineering, Advisor: Ananda S. Chowdhury
Thesis: Graph Theoretic Solutions for Two Multimedia Problems

2007-2011 | **Biju Patnaik University of Technology, India**
B.Tech. in Electronics and Telecommunication Engineering

Research Experience

06.2018-Present | **NEC Labs America, Cupertino, USA**
Research Intern, Media Analytics Group
Mentors: Xiang Yu, Samuel Schulter

06.2017-11.2017 | **Adobe Research, San Jose, USA**
Research Intern, Creative Intelligence Lab
Mentors: Jianming Zhang, Haoxiang Li, Joon-Young Lee, Xin Lu

06.2016-09.2016 | **Siemens Corporate Research, Princeton, USA**
Research Intern, Computer Vision Group
Mentors: Ziyan Wu, Jan Ernst

2014-Present | **University of California, Riverside, USA**
Graduate Student Researcher, Video Computing Group
Supervisor: Amit K. Roy-Chowdhury

06.2013-08.2014 | **Silicon Institute of Technology, Bhubaneswar, India**
Research Assistant, Department of ETC
Supervisor: Milan K. Biswal

08.2011-06.2013 | **Jadavpur University, Kolkata, India**
Research Assistant, IVPR Group
Supervisor: Ananda S. Chowdhury

Teaching Experience

Spring 2017 | Teaching Assistant: Pattern Recognition (Graduate Level), UC Riverside
Fall 2016 | Teaching Assistant: Stochastic Process (Graduate Level), UC Riverside
2013-2014 | Instructor: Image Processing (Undergraduate Level), Silicon Institute of Technology
2012-2013 | Teaching Assistant: C Programming (Undergraduate Level), Jadavpur University

Journal Publications

TIP'17 | **Rameswar Panda**, Niluthpol C. Mithun, Amit K. Roy-Chowdhury, "Diversity-aware Multi-Video Summarization", *IEEE Transactions on Image Processing*, 2017.

TMM'17 | **Rameswar Panda**, Amit K. Roy-Chowdhury, "Multi-View Surveillance Video Summarization via Joint Embedding and Sparse Optimization", *IEEE Transactions on Multimedia*, 2017.

TCYB'17 | **Rameswar Panda**, Sanjay K. Kuanar, Ananda S. Chowdhury, "Nyström approximated temporally constrained multi-similarity spectral clustering approach for movie scene detection", *IEEE Transactions on Cybernetics*, 2017.

CVIU'16 | Abir Das, **Rameswar Panda**, Amit K. Roy-Chowdhury, "Continuous Adaptation of Multi-Camera Person Identification Models through Sparse Non-redundant Representative Selection", Computer Vision and Image Understanding, 2016.

JVCIR'13 | S. K. Kuanar, **Rameswar Panda**, Ananda S. Chowdhury, "Video Key frame Extraction through Dynamic Delaunay Clustering with a Structural Constraint", *Journal of Visual Communication and Image Representation*, 2013.

Conference Publications

CVPR'18 | Shuyue Lan, **Rameswar Panda**, Qi Zhu, Amit K. Roy-Chowdhury, "FFNet: Video Fast-Forwarding via Reinforcement Learning", *IEEE Conference on Computer Vision and Pattern Recognition*, 2018.

ICCV'17 | **Rameswar Panda**, Abir Das, Ziyan Wu, Jan Ernst, Amit K. Roy-Chowdhury, "Weakly Supervised Summarization of Web Videos", *International Conference on Computer Vision*, 2017.

CVPR'17 | **Rameswar Panda**, Amit K. Roy-Chowdhury, "Collaborative Summarization of Topic-Related Videos", *IEEE Conference on Computer Vision and Pattern Recognition*, 2017.

CVPR'17 | **Rameswar Panda**, Amran Hossen Bhuiyan, Vittorio Murino, Amit K. Roy-Chowdhury, "Unsupervised Adaptive Re-identification in Open World Dynamic Camera Networks", *IEEE Conference on Computer Vision and Pattern Recognition*, (Spotlight), 2017.

ICASSP'17 | **Rameswar Panda**, Amit K. Roy-Chowdhury, "Sparse Modeling for Topic-oriented Video Summarization", *International Conference on Acoustics, Speech and Signal Processing*, 2017.

MM'16 | Niluthpol C. Mithun, **Rameswar Panda**, Amit K. Roy-Chowdhury, "Generating Diverse Image Datasets with Limited Labeling", *ACM International Conference on Multimedia*, 2016.

ICPR'16 | **Rameswar Panda**, Abir Das, Amit K. Roy-Chowdhury, "Video Summarization in a Multi-View Camera Network", *International Conference on Pattern Recognition*, 2016.

ICIP'16 | **Rameswar Panda**, Abir Das, Amit K. Roy-Chowdhury, "Embedded Sparse Coding for Summarizing Multi-View Videos", *International Conference on Image Processing*, 2016.

ICIP'15 | Abir Das, **Rameswar Panda**, Amit K. Roy-Chowdhury, "Active Image Pair Selection for Continuous Person Re-identification", *International Conference on Image Processing*, 2015.

ICPR'14 | **Rameswar Panda**, S. K. Kuanar, A. S. Chowdhury, "Scalable Video Summarization using Skeleton Graph and Random Walk", *International Conference on Pattern Recognition*, 2014.

ICPR'12 | A. S. Chowdhury, S. K. Kuanar, **Rameswar Panda**, M. N. Das, "Video Story-board Design using Delaunay Graphs", *International Conference on Pattern Recognition*, 2012.

Under Revision

TPAMI'18 | **Rameswar Panda**, Amran Hossen Bhuiyan, Vittorio Murino, Amit K. Roy-Chowdhury, "Unsupervised Adaptation of Re-identification Models in Dynamic Camera Networks", *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 2018.

ECCV'18 | **Rameswar Panda**, Jianming Zhang, Haoxiang Li, Joon-Young Lee, Xin Lu, Amit K. Roy-Chowdhury, "Contemplating Visual Emotions: Understanding and Overcoming Dataset Bias", *European Conference on Computer Vision*, 2018.

MM'18 | Niluthpol C. Mithun, **Rameswar Panda**, Evangelos Papalexakis, Amit K. Roy-Chowdhury, "Webly Supervised Joint Embedding for Cross-Modal Image-Text Retrieval", *ACM International Conference on Multimedia*, 2018.

Patents

62/430,463 | Weakly Supervised Visual Anomaly Detection and Segmentation in Images
Inventors: Rameswar Panda, Ziyan Wu, Arun Innaje, Jan Ernst
U.S. Provisional Patent Application filed on Dec 06, 2016.

Technical Skills

Programming Languages: C, C++, Matlab, Python
Libraries: OpenCV, Caffe, TensorFlow, Keras, PyTorch
Operating Systems: Windows, Unix, Mac OS
Human Computation: Amazon Mechanical Turk
Other Expertise: MS Office (Word, Excel, and PowerPoint), Latex etc.

Honors & Awards

2018 | CVPR Doctoral Consortium Award
2018 | Dissertation Year Program Fellowship Award, UC Riverside
2017 | Scholarship for 2017 Amazon Graduate Research Symposium
2014 | Dean's Distinguished Fellowship Award, UC Riverside
2013 | University 2^{nd} rank in M.S., Jadavpur University
2011 | 98.34% in Graduate Aptitute Test in Engineering (GATE), India

Courseworks

Graduate Coursework: Stochastic Process, Convex Optimization, Computer Vision, Information Theory, Pattern Recognition, Operating Systems, Computer Architecture, Indepedent Study: Deep Learning
Selected Undergraduate Coursework: C/C++ Programming, Digital Signal Processing, Image Processing, Artificial Neural Networks, Data Structures, Computer Networks

Professional Services

Member: IEEE, CVF
Conference Reviews: CVPR, ICCV, ECCV, ICIP, ICPR, ICASSP
Journal Reviews: TPAMI, TIP, TMM, TCSVT, TAES, CSUR, CVIU, PRL, SPL, MVA, SPIC