

Bharat Singh

CONTACT INFORMATION	3162, A.V. Williams College Park, MD 20740	Google Scholar GitHub	301-329-1092 bharat@cs.umd.edu
RESEARCH	Computer Vision: Object Detection, Action Detection, Video/Image Retrieval		
EDUCATION	University of Maryland, College Park PhD, Computer Science, 2018 (Expected), Advisor: Larry S. Davis Indian Institute of Technology Madras Bachelor and Master of Technology, Computer Science and Engineering, 2013		
SELECTED PUBLICATIONS	<ol style="list-style-type: none">1. B. Singh, M. Najibi* and L. Davis “SNIPER: Efficient Multi-Scale Training”, <i>Submitted to NIPS 2018</i>2. Z. Wu, N. Bodla, B. Singh, R. Chellappa and L. Davis “Soft Sampling for Robust Object Detection”, <i>Submitted to NIPS 2018</i>3. B. Singh and L. Davis “An Analysis of Scale Invariance in Object Detection - SNIP”, <i>CVPR 2018, Oral</i> (Best Student Entry, COCO 2017)4. B. Singh, H. Li*, A. Sharma and L. Davis “R-FCN-3000 at 30fps: Decoupling Classification and Detection”, <i>CVPR 2018</i>5. Z. Wu, B. Singh, L. Davis and V. Subrahmanian “Deception Detection in Videos”, <i>AAAI 2018</i>6. N. Bodla, B. Singh*, R. Chellappa and L. Davis “Soft-NMS: Improving Object Detection With One Line of Code”, <i>ICCV 2017</i>7. X. Dai, B. Singh, G. Zhang, L. Davis and Y. Chen “Temporal Context Network for Activity Localization in Videos”, <i>ICCV 2017</i>8. S. Esmaeili, B. Singh and L. Davis “Fast-AT: Fast Automatic Thumbnail Generation using Convolutional Neural Networks”, <i>CVPR 2017</i>9. X. Han, B. Singh*, V. Morariu and L. Davis “VRFP: On-the-fly Video Retrieval using Web Images and Fast Fisher Vector Products”, <i>IEEE Transactions of Multimedia, 2017</i>10. B. Singh, T. Marks, M. Jones, O. Tuzel and M. Shao “A Multi-Stream Bi-Directional Recurrent Neural Network for Fine-Grained Action Detection”, <i>CVPR 2016</i>11. G. Taylor, R. Burmeister, Z. Xu, B. Singh, A. Patel and T. Goldstein “Training Neural Networks Without Gradients: A Scalable ADMM Approach”, <i>ICML 2016</i>12. B. Singh, X. Han*, Z. Wu, V. Morariu and L. Davis “Selecting Relevant Web Trained Concepts for Automated Event Retrieval”, <i>ICCV 2015</i>.		
SKILLS	DL Frameworks: Caffe, MxNet, Torch	Languages: C++, CUDA, Python, Javascript	
INTERNSHIPS	NEC Research Labs America Mitsubishi Electric Research Labs INRIA/Ecole Centrale Paris Google	June 2016 to August 2016 June 2015 to August 2015 May 2012 to September 2012 May 2011 to July 2011	
REFERENCES	Larry S. Davis: lsd@umiacs.umd.edu, Tom Goldstein: tomg@cs.umd.edu, Michael Jones: mjones@merl.com		

*Denotes equal contribution