

SVATI DHAMIJA

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EDUCATION

University of Colorado, Colorado Springs

2013 - Present

PhD. in Computer Science, GPA: 3.72/4.00

Advisor: Prof. Terrance Boulton

Guru Gobind Singh Indraprastha University, Delhi, India

2008-2011

M.S. in Electronics and Communication Engineering, Grade: 73% , First Class

Punjab Technical University, India

2003-2007

B.E. in Electronics and Communication Engineering, Grade: 70% , First Class

PUBLICATIONS

1. A.Mallol, **S. Dhamija**, T. Boulton “A Multimodal approach for predicting changes in PTSD symptom severity”, ACM International Conference on Multimodal Interaction (ICMI) 2018
2. **S. Dhamija**, T. Boulton “Automated Action Units Vs. Expert Raters : Face off”, IEEE Winter Conference on Applications of Computer Vision (WACV) 2018
3. **S. Dhamija**, T. Boulton “Learning Visual Engagement for Trauma-Recovery”, IEEE Workshop on Computer Vision for Active and Assisted Living (CV-AAL) 2018
4. **S. Dhamija**, T. Boulton “Automated Mood-Aware Engagement Prediction” Affective Computing for Intelligent Interaction (ACII) 2017 (oral, Acceptance Rate 27.6%)
5. **S. Dhamija** “Learning Based Visual Engagement and Self-Efficacy” Doctoral Consortium ACII 2017
6. **S. Dhamija**, T. Boulton “Exploring Contextual Engagement for Trauma Recovery” Workshop on Deep Affective Learning and Context Modeling, CVPR 2017 (acceptance rate 30%)
7. K. Shoji, A. Devane, **S. Dhamija**, T. Boulton C. Benight “Recurrence of Heart Rate and Skin Conductance during Web-based intervention for Trauma survivors” International Society for Traumatic Stress Studies (ISTSS) 2017
8. K Shoji, C. Benight, A. Mullings, C. Yeager, **S. Dhamija**, T. Boulton “Measuring engagement into the web-intervention by the quality of voice” International Society for Research on Internet Interventions (ISRII) 2016
9. C. Benight, K. Shoji, C. Yeager, A. Mullings, **S. Dhamija**, T. Boulton “Changes self-appraisal and mood utilizing a web-based recovery system on post-traumatic stress symptoms: A laboratory experiment” International Society for Traumatic Stress Studies (ISTSS) 2016
10. **S. Dhamija**, P. Jain “Comparative analysis for discrete sine transform as a suitable method for noise estimation” International Journal of Computer Science Issues (IJCSI) Vol. 8, Issue 5, No 3, 2011
11. **S. Dhamija**, A Tayal “Adaptive filtering algorithms for channel equalization and echo cancellation”, International Journal of Computer Technology and Applications (IJCTA) 2011

EXPERIENCE

VAST Lab, University of Colorado*Research Assistant*Sept 2013 - Present
Colorado Springs, CO

- Working on an NSF grant for Smart Connected Health, analyzing and exploring techniques for prediction of engagement using data annotated from psychologists, facial cues and sensor information.
- Exploring extraction of physiological signals (heart rate and breathing rate) from video.
- Experience with number of face detection, facial tracking, facial landmark detection, expression recognition and emotion recognition packages and toolkits.

Indian Institute of Technology*Summer Research Fellow*April 2013 - Dec 2013
Delhi, India

- Member of the Image Sensor Research Group, responsible for analyzing images from 3D Mesa imaging Time of Flight camera in order to establish its drawbacks
- Creating algorithms for comparison of intensity images and contrast of 2D webcam and 3D Mesa Imaging camera

Aircom International*Quality Engineer*Dec 2007 - Oct 2011
Delhi, India

- Responsible for RF planning product Asset, and a SOA-based application Enterprise Web Services
- Tested novel heuristic in SCRUM and Agile environments to maintain and release different product versions
- Part of decision-making team which included product engineers, product support and offshore managers

TECHNICAL STRENGTHS

- **Computer Languages:** C, C++, Python, Shell Scripting, SQL, PHP, Javascript, MATLAB
- **Scientific Packages:** OpenCV, BioSPPy, MNE-Python, NumPy, SciPy, Scikit-Learn, Weka, Rapid Miner, TensorFlow, Keras, Caffe
- **Software Packages:** FFmpeg, OwnCloud, Clear Quest, JIRA, Target Process, Silk Central Test Manager, Microsoft Application Virtualization and MS Office etc.

OTHER INFORMATION

- Received WACV 2018 PhD Forum Award
- Received IEEE ACII 2017 NSF award for the next generation of User Modeling, Adaptation, and Personalization (UMAP) researchers
- Received Engineering and Applied Science UCCS Student Travel Award 2017
- Received UCCS Graduate School Association Travel Award 2015
- Received several nominations for “Employee of the Month” award at Aircom International, 2010-11