Svati Dhamija
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Svati Dhamija

Computer Vision Scientist

Education

University of Colorado Colorado Springs, 2013 - 2018
Doctorate in Computer Science | Advisor: Dr.Terrance E. Boult

Indraprastha University, 2008 - 2011
M.S. in Electronics and Communication Engineering

Punjab Technical University, 2007 - 2003
B.Tech. in Electronics and Communication Engineering

Awards

NSF Research Award 2020
Award Abstract # 2016849 | Award Amount: $ 749,976.00

WACV PhDForum Award 2018
Awarded to 20 top PhD students in Applied Computer Vision from all over the world

ACII Doctoral Consortium Award 2017
NSF award for the next generation of User Modeling, Adaptation, and Personalization (UMAP) researchers

Engineering and Applied Sciences Graduate student award 2017, 2015
UCCS scholarship awarded based on student merit

Selected Publications

Automated Action Units Vs. Expert Raters : Face off
IEEE Winter Conference on Applications of Computer Vision (WACV)   *2018*

Learning Visual Engagement for Trauma-Recovery
Computer Vision for Active and Assisted Living Workshop (CV-AAL)   *2018*

Automated Mood-Aware Engagement Prediction
Affective Computing for Intelligent Interaction (ACII)   *2017*

Learning Based Visual Engagement and Self-Efficacy
Doctoral Consortium on Affective Computing for Intelligent Interaction   *2017*

Exploring Contextual Engagement for Trauma Recovery
Computer Vision and Pattern Recognition Workshop (CVPRW)   *2017*

Experience

SRI International (Menlo Park)
Advanced Computer Scientist   *Nov 2018 - April 2021*
Acquired funding as a lead in projects from external sources like NSF and also IRADs.

VAST Lab University of Colorado
Research Assistant   *Sept 2013 -Nov 2018*
Devised a mental health application (2TB+ data collected/organized). Developed engagement, mood and efficacy prediction models using deep sequence learning, facial expressions, user self-reports and other multi-modal data.

Indian Institute of Technology Delhi
Summer Research Fellow   *April 2013 - Dec 2013*
Member of the Image Sensor Research Group responsible for analyzing images from 3D Mesa imaging Time of Flight camera

Aircom International
Quality Engineer   *Dec 2007 - Oct 2011*
Tested novel heuristic in SCRUM and Agile environments to maintain and release different product versions.

Interests

Computer Vision

Machine Learning

Signal Processing

Data Science

Human Computer Interaction

Affective Computing

Psychology

Education

Technical Skills

○ Pytorch ○ Tensorflow ○ OpenCV   ○ Scikit-Learn
○ Git   ○ OwnCloud   ○ AtlassianJira   ○ TargetProcess
○ Pyton   ○ Shell   ○ MatLab   ○ C++   ○ PHP   ○ SQL