

Ali Osman Ulusoy

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CURRENT POSITION	Post-doctoral researcher , MPI for Intelligent Systems <ul style="list-style-type: none">• Advisors: Michael J. Black and Andreas Geiger	Tübingen, Germany
EDUCATION	Ph.D. in Engineering, Brown University <ul style="list-style-type: none">• Thesis title: Probabilistic and Volumetric Reconstruction of Time-Varying 3-d Scenes from Multi-view Images• Thesis committee: Prof. Joseph Mundy (advisor), Prof. Gabriel Taubin, Prof. James Hays Sc.M. in Applied Mathematics, Brown University B.S. in Computer Engineering, Bilkent University	Providence, RI, 2014 Providence, RI, 2011 Ankara, Turkey, 2011
PUBLICATIONS	Patches, Planes and Probabilities: A Non-local Prior for Volumetric 3D Reconstruction Ali Osman Ulusoy , Michael J. Black, Andreas Geiger <i>IEEE Conf. on Computer Vision and Pattern Recognition (CVPR)</i>	2016
	Towards Probabilistic Volumetric Reconstruction using Ray Potentials Ali Osman Ulusoy , Andreas Geiger, Michael J. Black <i>International Conf. on 3D Vision (3DV)</i> (Oral Presentation) (Best Paper Award)	2015
	Evaluation of Feature-Based 3-d Registration of Probabilistic Volumetric Scenes Maria I. Restrepo,, Ali Osman Ulusoy , Joseph L. Mundy <i>ISPRS Journal of Photogrammetry and Remote Sensing</i>	2014
	TrueClick: Automatically Distinguishing Trick Banners from Genuine Download Links Sevtap Duman, Kaan Onarlioglu, Ali Osman Ulusoy , William Robertson, Engin Kirda <i>Proceedings of the Annual Computer Security Applications Conference (ACSAC)</i>	2014
	Image-based 4-d Modeling Using 3-d Change Detection Ali Osman Ulusoy , Joseph L. Mundy <i>European Conf. on Computer Vision (ECCV)</i>	2014
	Dynamic Probabilistic Volumetric Models Ali Osman Ulusoy , Octavian Biris, Joseph L. Mundy <i>International Conf. on Computer Vision (ICCV)</i>	2013
	High Resolution Surface Reconstruction from Multi-view Aerial Imagery Fatih Calakli, Ali Osman Ulusoy , Maria Restrepo, Gabriel Taubin, Joseph L. Mundy <i>3DIMPVT</i> (Oral Presentation)	2012
	Characterization of 3-D Volumetric Probabilistic Scenes for Object Recognition Maria I Restrepo, Brandon A Mayer, Ali Osman Ulusoy , Joseph L Mundy <i>IEEE Journal of Selected Topics in Signal Processing</i>	2012

Robust One-Shot 3-d Scanning using Loopy Belief Propagation
Ali Osman Ulusoy, Fatih Calakli and Gabriel Taubin
Applications of Computer Vision in Archaeology workshop in conjunction with IEEE Conf. on Computer Vision and Pattern Recognition (CVPR) (Oral Presentation) 2010

One-Shot Scanning using De Bruijn Spaced Grids
Ali Osman Ulusoy, Fatih Calakli and Gabriel Taubin
3-D Digital Imaging and Modeling (3DIM) workshop in conjunction with International Conf. on Computer Vision 2009

INDUSTRY EXPERIENCE **Research scientist** at Vision Systems Inc. (Providence, RI), a start-up company lead by Prof. Joseph Mundy. My research focused on 3D reconstruction of reflective materials. Summer 2014.

Research intern at Vistek (Istanbul, Turkey), a spin-off machine vision company led by Prof. Aytül Erçil from Sabanci University, Turkey. I worked on OCR for automated quality control. Summer 2007.

Software engineering intern at Siemens (Istanbul, Turkey). Summer 2006.

INVITED TALKS AND POSTERS Towards Probabilistic Volumetric Reconstruction using Ray Potentials

- International Workshop on Computer Vision 2016
- University of North Carolina at Chapel Hill 2015

Probabilistic and Volumetric Reconstruction of Time-Varying 3-d Scenes

- MPI Intelligent Systems - ETH Learning Systems Workshop 2015
- Harvard University 2015
- GE Global Research Center 2014

Image-based 4-d Modeling Using 3-d Change Detection

- MIT 2014
- Vision Systems Inc. 2013

Probabilistic and Volumetric Framework for Reconstructing General Dynamic 3-d Scenes (Poster),

- Greater New York Area Multimedia and Vision Meeting 2013

HONORS AND AWARDS International Conf. on 3D Vision Best Paper Award 2015
 NVIDIA Hardware Donation - one Nvidia Tesla K20c 2013
 Brown University Graduate Fellowship 2008
 Bilkent University Undergraduate Fellowship 2005-2008

COMPUTER SKILLS Programming: C/C++, OpenCL, Python, MATLAB, Java, L^AT_EX
 Software libraries: VXL, OpenCV

ACADEMIC	Reviewer, European Conf. on Computer Vision (ECCV)	2016
SERVICE	Reviewer, ACM SIGGRAPH ASIA	2016
	Reviewer, IEEE Conf. on Computer Vision and Pattern Recognition (CVPR)	2016
	Reviewer, International Conf. on Computer Vision (ICCV)	2015
	Reviewer, International Journal of Computer Vision (IJCV)	2015
	Reviewer, Image and Vision Computing (IVC)	2014
	Reviewer, Image and Vision Computing (IVC)	2013