Brevin Tilmon

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Education

PhD, Electrical and Computer Engineering, University of Florida BS, Engineering Physics, Murray State University Experience	2019 - Present 2015 - 2019
Facebook, Facebook Reality Labs Research Intern	2021
University of Florida, FOCUS Lab Graduate Research Assistant, Advisor: Sanjeev Koppal	2019 - Present

Publications

1. SaccadeCam: Adaptive Visual Attention for Monocular Depth Sensing

B. Tilmon, S. J. Koppal arXiv, 2021

2. Fast Foveating Cameras for Dense Adaptive Resolution

B. Tilmon, E. Jain, S. Ferrari and S. J. Koppal Transactions on Pattern Analysis and Machine Intelligence (TPAMI), 2021

3. FoveaCam: A MEMS Mirror-Enabled Foveating Camera

B. Tilmon, E. Jain, S. Ferrari, S. J. Koppal. International Conference on Computational Photography (ICCP), 2020

4. Towards a MEMS-based Adaptive LIDAR

F. Pittaluga, Z. Tasneem, J. Folden, B. Tilmon, A. Chakrabarti, S. J. Koppal. International Conference on 3D Vision (3DV), 2020

5. Design and Calibration of a Fast Flying-Dot Projector for Dynamic Light Transport Acquisition

K. Henderson, X. Liu, J. Folden, B. Tilmon, S. Jayasuriya, S.J. Koppal. Transactions on Computational Imaging (TCI), 2020

6. Novel Approach of Wavelet Analysis for Nonlinear Ultrasonic Measurements and Fatigue Assessment of Jet Engine Components

G. Bunget, B. Tilmon, A. Yee, D. Stewart, J. Rogers, et al. American Institute of Physics 2018

Patents

- 1. Fast Foveation Camera and Controlling Algorithms
 - S. Koppal, Z. Tasneem, D. Wang, H. Xie, B. Tilmon

Awards

NSF GRFP Honorable Mention	2020
Graduate School Preeminence Award, University of Florida	2019
Kirkland Fellowship, University of Florida	2019

Skills

Software: Python, C++, PyTorch, CUDA, NVIDIA OptiX, Mitsuba Hardware: Depth/RGB Cameras, Embedded Systems, Optics Bench