

Brevin Tilmon

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Education

PhD, Electrical and Computer Engineering, University of Florida	2019 - Present
BSE, Engineering Physics, Murray State University	2015 - 2019

Experience

NASA, Intelligent Robotics Group Research Intern	2021
Facebook, Facebook Reality Labs Research Intern	2021
University of Florida, FOCUS Lab Graduate Research Assistant, Advisor: Sanjeev Koppal	2019 - Present

Publications

- SaccadeCam: Adaptive Visual Attention for Monocular Depth Sensing**
B. Tilmon, S. J. Koppal
arXiv, 2021
- 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
- FoveaCam: A MEMS Mirror-Enabled Foveating Camera**
B. Tilmon, E. Jain, S. Ferrari, S. J. Koppal.
International Conference on Computational Photography (ICCP), 2020
- 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
- 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
- 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

- 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