

Sanjeev J. Koppal

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EXPERIENCE AND EDUCATION

Associate Professor (IEEE and Optica Senior Member) <i>University of Florida, Electrical and Computer Engineering</i> Director of the Florida Optics and Computational Sensor (FOCUS) Lab	2021-present
Amazon Scholar <i>Amazon Robotics</i>	2022-present
Assistant Professor <i>University of Florida, Electrical and Computer Engineering</i>	2014-2021
Member of Technical Staff <i>Texas Instruments Imaging R&D Group</i>	2012-2014
Post-doctoral Research Associate <i>Harvard University</i> Mentor: Prof. Todd Zickler	2009-2012
Graduate Research Assistant <i>Robotics Institute, Carnegie Mellon University</i> <i>Ph.D. Robotics Aug 2009</i> Advisor: Prof. Srinivasa Narasimhan	2003-2009
Undergraduate Research Assistant <i>University of Southern California</i> <i>B.S. Computer Science May 2003</i> Mentor: Prof. Gaurav Sukhatme	1999-2003

JOURNALS

- J23** Event-based Dual Photography for Transparent Scene Reconstruction
Xiaomeng Liu, Joshua D. Rego, Suren Jayasuriya, S. J. Koppal
Optics Letters 2023
- J22** Dense Lissajous Sampling and Interpolation for Dynamic Light-Transport
Optics Express 2021
X. Liu, K. Henderson, J. Rego, S. Jayasuriya and **S. J. Koppal**
- J21** A Miniature LiDAR with a Detached MEMS Scanner for Micro-robotics
IEEE Sensors Journal 2021
D. Wang, H. Xie, L. Thomas and **S. J. Koppal**
- J20** Fast Foveating Cameras for Dense Adaptive Resolution
IEEE Transactions on Pattern Analysis and Machine Intelligence (PAMI), 2021
B. Tilmon, E. Jain, S. Ferrari and **S. J. Koppal**

- J19** Adaptive Fovea for Scanning Depth Sensors
International Journal of Robotics Research, 2020
Z. Tasneem, C. Adhivarahan, D. Wang, H. Xie, K. Dantu and **S. J. Koppal**
- J18** Design and Calibration of a Fast Flying-Dot Projector
for Dynamic Light Transport Acquisition
Transactions on Computational Imaging, 2020
K. Henderson, X. Liu, J. Folden, B. Tilmon, S. Jayasuriya and **S. J. Koppal**
- J17** Proximity-based Sensor Fusion of Depth Cameras and Isotropic Rad-detectors
Transactions on Nuclear Science, 2020
K. Henderson, X. Liu, K. Stadnikia, A. Martin, A. Enqvist and **S. J. Koppal**
- J16** A low-voltage, low-current, digital-driven MEMS mirror for low-power LiDAR
IEEE Sensors Letters, 2020
D. Wang, L. Thomas, **S. J. Koppal**, Y. Ding and H. Xie
- J15** A Monolithic Forward-View MEMS Laser Scanner With Decoupled Raster Scanning
and Enlarged Scanning Angle for Micro LiDAR Applications
Journal of Microelectromechanical Systems, 2020
D. Wang, **S. J. Koppal** and H. Xie
- J14** The Security-Utility Trade-off for Iris Authentication and
Eye Animation for Social Virtual Avatars
IEEE VR 2020 (in the proceedings of TVCG 2020)
B. John, S. Joerg, **S. J. Koppal** and E. Jain
- J13** A Silicon Optical Bench with Vertically-oriented Micromirrors
for Active Beam Steering
Sensors and Actuators A: Physical, 2019
D Wang, C Watkins, **S. J. Koppal** and H Xie
- J12** Data Fusion for a Vision-Aided Radiological Detection System:
Calibration Algorithm Performance
Nuclear Instruments and Methods in Physics A, 2018
K. Stadnikia, K. Henderson, A. Martin, P. Riley, **S. J. Koppal** and Andreas Enqvist
- J11** Focal Flow: Velocity and Depth from Differential Defocus through Motion
International Journal on Computer Vision (IJCV), 2017
E. Alexander, Q. Guo, **S. J. Koppal**, S.J. Gortler, and T. Zickler
- J10** Leveraging gaze data for segmentation and effects on comics
Transactions on Multimedia Computing (TOMM), 2017
I. Thirunarayanan, K. Khetarpal, **S. J. Koppal**, O. LeMeur, J. Shea and E. Jain
- J09** Pre-capture privacy for small vision sensors
Transactions on Pattern Analysis and Machine Intelligence (PAMI) 2016
F. Pittaluga and **S. J. Koppal**

J08 A survey on computational photography in the small
IEEE Signal Processing Magazine, 2016

S. J. Koppal

J07 Wide-angle structured light with a scanning MEMS mirror in liquid
Optics Express, 2016

X. Zhang, **S. J. Koppal**, R. Zhang, L. Zhou, E. Butler and H. Xie

J06 Beyond perspective dual photography with illumination masks
Transactions on Image Processing (TIP), 2015

S. J. Koppal and S. G. Narasimhan

J05 Generalized assorted camera arrays: robust cross-channel registration and applic.
Transactions on Image Processing (TIP), 2015

J. Holloway and K. Mitra and **S. J. Koppal** and A. Veeraraghavan

J04 Towards wide-angle micro vision sensors

Transactions on Pattern Analysis and Machine Intelligence (PAMI), 2013

S. J. Koppal, I. Gkioulekas, T. Young, H. Park, K. Crozier, G. Barrows and T. Zickler

J03 Exploiting DLP illumination dithering for reconstruction and
photography of high-speed scenes

International Journal on Computer Vision (IJCV), 2011.

S. J. Koppal, S. Yamazaki and S. G. Narasimhan

J02 A viewer-centric editor for stereoscopic cinema

IEEE Computer Graphics and Applications (CG&A), 2011.

S. J. Koppal, L. Zitnick, M. Cohen, S. Kang, B. Ressler and A. Colburn

J01 Appearance derivatives for iso-normal clustering of scenes

Transactions on Pattern Analysis and Machine Intelligence (PAMI), 2008.

S. J. Koppal and S. G. Narasimhan

CONFERENCES

C34 Schrödinger's Camera: First Steps Towards a Quantum-Based Privacy Preserving
Camera Hannah Kirkland and **S. J. Koppal**

arXiv 2023 — TCV CVPRW 2023 — WiCV CVPRW 2023 (extended abstract)

C33 Energy-Efficient Adaptive 3D Sensing

Brevin Tilmon, Zhanghao Sun, **S. J. Koppal**, Yicheng Wu, Georgios Evangelidis, Ramzi
Zahreddine, Guru Krishnan, Sizhuo Ma and Jian Wang

CVPR 2023

C32 Give me some room please! Personal space bubbles for safety and performance

Karina LaRubbio, Ethan Wilson, **S. J. Koppal**, Sophie Jörg and Eakta Jain

IEEE VR Conference 2023

C31 Optical MEMS enable next generation solutions for robot vision and human-robot interaction

Daniel Lovell, Veljko Milanovic, Abhishek Kasturi, Frank Hu, Karan Soni, Derek Ho, Bryan H. Atwood, Lj Ristic, Xiaomeng Liu, and **S. J. Koppal**
SPIE OPTO 2022

C30 SaccadeCam: Adaptive Visual Attention for Monocular Depth Sensing

International Conference on Computer Vision (ICCV) 2021

B. Tilmon and **S. J. Koppal**

C29 Design and Fabrication of a Forward View Scanner on SIOB with Latch Structure for Improved Vertical Orientation

IEEE MEMS 2021

D. Wang, D. Zheng, **S. J. Koppal**, B. Sun and H. Xie

C28 Towards a MEMS-based Adaptive LIDAR

3DV 2020

F. Pittaluga, Z. Tasneem, J. Folden, B. Tilmon, A. Chakrabarti and **S. J. Koppal**

C27 FoveaCam: A MEMS Mirror-Enabled Foveating Camera

ICCP 2020

B. Tilmon, E. Jain, S. Ferrari, and **S. J. Koppal**

C26 Revealing Scenes by Inverting Structure from Motion Reconstructions

CVPR 2019 *Best Paper Finalist*

F. Pittaluga, **S. J. Koppal**, S. Kang and S. Sinha

C25 A Large Aperture 2-Axis Electrothermal MEMS Mirror for Compact 3-D LiDAR

2019 International Conference on Optical MEMS and Nanophotonics

D. Wang, C. Watkins, M. Aradhya, **S. J. Koppal** and H. Xie

C24 A Compact Omnidirectional Laser Scanner Based on an Electrothermal Tripod MEMS Mirror for LiDAR

Transducers 2019

D. Wang, C. Watkins, **S. J. Koppal**, M. Li, Y. Ding and H. Xie

C23 EyeVEIL: Degrading Iris Authentication in Eye-Tracking Headsets

ETRA 2019

B. John, **S. J. Koppal** and E. Jain

C22 Learning Privacy Preserving Encodings through Adversarial Training

IEEE Winter Conference on Applications in Vision (WACV), 2019

F. Pittaluga, **S. J. Koppal** and A. Chakrabarti

C21 Directionally Controlled Time-of-Flight Ranging for Mobile Sensing Platforms

Robotics Science and Systems (RSS), 2018

Z. Tasneem, D. Wang, H. Xie and **S. J. Koppal**

C20 An Integrated Forward-View 2-Axis MEMS Scanner for Compact 3D LIDAR

NEMS 2018 *Best Student Paper Award*

D. Wang, S. Rojas, A. Shuping, Z. Tasneem, **S. J. Koppal** and H. Xie

C19 A Compact 3D LIDAR Based on an Electrothermal Two-Axis MEMS Scanner for Small UAV
SPIE 2018

D. Wang, S. Strassle, A. Stainsby, Y. Bai, **S. J. Koppal** and H. Xie

C18 Designing Light Filters to Detect Skin Using a Low-powered Sensor
SoutheastCon 2018

M. Tariq, A. Ghosh, K. Badillo-Urquiola, A. Jha, **S. J. Koppal**, and P. J. Wisniewski

C17 Tracking Radioactive Sources through Sensor Fusion of Omnidirectional LIDAR and Isotropic Rad-detectors
3DV 2017

K. Henderson, K. Stadnikia, A. Enqvist and **S. J. Koppal**

C16 A Compact MEMS-Based Wide-Angle Optical Scanner
International Conference on Optical MEMS and Nanophotonics (OMN), 2017

B. Yang, L. Zhou, X. Zhang, D. Wang, **S. J. Koppal** and H. Xie

C15 Situational Information Guidance for Revised Detection Limits
Nuclear Science Symposium / Medical Imaging Conference 2017

K. Stadnikia, K. Henderson, **S. J. Koppal** and A. Enqvist

C14 A Wide-angle Immersed MEMS Mirror and Its Application in OCT
International Conference on Optical MEMS and Nanophotonics, 2016

X. Zhang, L. Zhou, C. Duan, D. Zheng, **S. J. Koppal**, and H. Xie

C13 Data Fusion for a Vision-Radiological System: Calibration Algorithm Response to Sensor Location
INMM 2016

K. Stadnikia, A. Martin, P. Riley, K. Henderson, **S. J. Koppal** and A. Enqvist

C12 Focal flow: Measuring distance and velocity with defocus and differential motion
[ECCV 2016 Best Student Paper](#)

E. Alexander, Q. Guo, **S.J. Koppal**, S.J. Gortler, and T. Zickler

C11 Sensor-level privacy for thermal cameras
International Conference on Computational Photography (ICCP), 2016

F. Pittaluga, A. Zivkovic and **S. J. Koppal**

C10 Low-cost depth and radiological sensor fusion to detect moving sources
3DV, 2015

P. Riley, A. Enqvist and **S. J. Koppal**

C09 Privacy preserving optics for miniature vision sensors
Conference on Computer Vision and Pattern Recognition (CVPR), 2015

F. Pittaluga and **S. J. Koppal**

C08 Data Fusion for a Vision-Radiological System for Source Tracking and Discovery
Advancements in Nuclear Instrumentation Measurement Methods and their Applic., 2015

A. Enqvist and **S. J. Koppal**

C07 MEMS mirrors submerged in liquid for wide-angle scanning
International Conference on Solid-State Sensors, Actuators and Microsystems, 2015
X. Zhang, R. Zhang, **S. J. Koppal**, E. Butler, X. Cheng and H. Xie

C06 Wide-angle micro sensors for vision on a tight budget
Conference on Computer Vision and Pattern Recognition (CVPR), 2011.
S. J. Koppal, I. Gkioulekas, T. Zickler and G. Barrows

C05 Shadow cameras: Reciprocal views from illumination masks
International Conference on Computer Vision (ICCV), 2009.
S. J. Koppal and S. G. Narasimhan

C04 Temporal dithering of illumination for fast active vision
European Conference on Computer Vision (ECCV), 2008.
S. G. Narasimhan, **S. J. Koppal** and S. Yamazaki

C03 Novel depth cues from uncalibrated near-field lighting
International Conference on Computer Vision (ICCV), 2007.
S. J. Koppal and S. G. Narasimhan

C02 Clustering appearance for scene analysis
Conference on Computer Vision and Pattern Recognition (CVPR), 2006.
S. J. Koppal and S. G. Narasimhan

C01 Structured light from scattering media
International Conference on Computer Vision (ICCV), 2005.
S. G. Narasimhan, S. K. Nayar, B. Sun and **S. J. Koppal**

Book chapters

BC02 Koppal S.J. (2014/2019) Lambertian Reflectance. In: Ikeuchi K. (eds) Computer Vision. Springer, Boston, MA

BC01 Koppal S.J. (2014/2019) Diffuse Reflectance. In: Ikeuchi K. (eds) Computer Vision. Springer, Boston, MA

Workshops and other publications

W06 BlockSLAM: Privacy and Security in Spatial Computing for the Gig Economy
S. J. Koppal
FOCUS Lab Position Paper 2022

W05 Let It Snow: Adding pixel noise to protect the user's identity
1st International Workshop on Privacy and Ethics in Eye Tracking (PrETHics), 2020
B. John, A. Liu, L. Xia, **S. J. Koppal** and E. Jain

W04 A low-power structured light sensor for outdoor scene reconstruction and dominant material identification

International Workshop on Projector-Camera Systems, 2012

C. Mertz, **S. J. Koppal**, S. Sia and S. G. Narasimhan

W03 Illustrating motion through DLP Photography

PROCAMS, 2008

S. J. Koppal and S. G. Narasimhan

W02 Leveraging Gaze Data for Segmentation and Effects on Comics

ACM Symposium on Applied Perception Poster, 2016

I. Thirunarayanan, **S. J. Koppal**, J. Shea and E. Jain

W01 Taylor Series of Appearance Functions

CMU-Robotics Institute Technical report, 2006

S. J. Koppal, A. Datta, S. G. Narasimhan and K. Nishino

PATENTS

P08 S. J. Koppal, Z. Tasneem, D. Wang, H. Xie and B. Tilmon

Fast foveation camera and controlling algorithms

US Patent US11800205B2, 2023

P07 Huikai Xie, **S. J. Koppal**, X. Zhang, L. Zhou and C. Duan

Endoscopic oct probes with immersed mems mirrors

US Patent US11259685B2, 2022

P06 S. J. Koppal and F. Pittaluga

Optical privatizing device

US Patent US10440348B2, 2019

P05 S. J. Koppal and Vikram Appia

Time-of-Flight (TOF) Assisted Structured Light Imaging

US Patent US10061028B2, 2018

P04 S. J. Koppal

Controlling Image Focus in Real-Time Using Gestures and Depth Sensor Data

US Patent US10079970B2, 2018

P03 S. J. Koppal

Depth sensor data with real-time processing of scene sensor data

US Patent US9767545B2, 2017

P02 T. Zickler, **S. J. Koppal**, G. L. Barrows and I. Gkioulekas

Optical micro-sensor

US Patent US9176263B2, 2015

P01 S. J. Koppal, S.B. Kang, C.L. Zitnick, M.F. Cohen, and B.K. Ressler

Stereo movie editing

US Patent US8330802B2, 2012

FUNDING AWARDS (TOTAL ~ \$6M, PI SHARE ~ \$3.2M)

F12 Rapid High-Resolution Target Aerial Detection and Tracking through Deep Foveated (2023-2027)

Office of Naval Research (ONR) N00014-23-1-2429

Total ~ \$1M PI share ~ \$1M

F11 Re-Configurable Electro-Optical Device for Accelerating Deep-Network Training and Inference on Small Autonomous Platforms (2023-2026)

Office of Naval Research (ONR) N00014-23-1-2363

Total ~ \$360,000 PI share ~ \$360,000

F10 FRR: Underwater Robot Navigation and Localization During Recovery by Optical Homing (2023-2026)

National Science Foundation (NSF) 2330416

Total ~ \$599,503 co-PI share ~ \$173,000

F09 CAREER: Fast Foveation: Bringing Active Vision into the Camera (2020-2025)

National Science Foundation (NSF) 1942444

Total ~ \$500,000 PI share ~ \$500,000

F08 SITS: Hyperspectral Signals in the Soil (2020-2022)

National Institute of Food and Agriculture FLA-AGR-006015

Total ~ \$1,200,000 co-PI share ~ \$250,000

F07 Elements: Cyberinfrastructure Service for IoT-Based Construction Research and Applications (2020-2022)

National Science Foundation (NSF)

Total ~ \$455,114.00 co-PI share ~ \$11,000

F06 Dynamic Light Transport Acquisition and Applications to Computational Illumination (2019-2022)

National Science Foundation (NSF) 1909729

Total ~ \$500,000 PI share ~ \$250,000

F05 Directionally Controlled Time-of-Flight Sensors: Algorithms, Optical and Imaging (2018-2022)

Office of Naval Research (ONR) N00014-18-1-2663

Total ~ \$780,000 PI share ~ \$390,000

F04 Novel Micro-LIDAR design and sensing algorithms for flapping-wing Micro-aerial Vehicle (2015-2019)

National Science Foundation (NSF) 1514154

Total ~ \$400,000 PI share ~ \$200,000

F03 Radiological Source Detection and Tracking Based on Multi-Sensor Data Fusion (2014-18)

Department of Homeland Security (DHS) 2014-DN-077-ARL083-03

Total ~ \$890,000, co-PI share ~ \$460,000

F02 Wide-angle optics for micro-LIDAR sensor (2018-2020)

MIST Center Award, Total ~ \$100000, PI share ~ \$50000

F01 Texas Instruments Embedded Processing University Funding Award (2013)

TEACHING

T03 Advanced Robot Perception, Spring 2021-present

I developed this course from scratch at UF. It teaches students effective wielding of a subset of deep learning approaches that are practically useful for building perception algorithms for robotic systems. The focus here is on data from real sensors in robotic and autonomous scenarios, such as thermal cameras (both MWIR and LWIR), event cameras, stereo cameras, high-speed cameras, LIDAR sensors and optical processors.

T02 Computational Photography, Fall 2014-present

Latest rating 4.3 for undergraduates and 4.5 for graduate students

I developed this Computational Photography course from scratch at UF, and which received its official course numbers recently (EEL 4403/5406). This course contains hands-on lab activity, with simple but powerful computational photography techniques.

T01 Signals and Systems, Spring 2015-present

Latest rating 3.8 for undergraduates

EEL 3135 (Signals and Systems) is a core course for an undergraduate degree in Electrical and Computer Engineering at UF. The goal of the course is to garner a practice-based understanding of time-varying information (signals) and the software/circuits needed to process these (systems). I exploit the flipped nature of the class to help students develop abstract complex number processing skills.

STUDENTS

Ph.D. Students

D10 Xiaoyang Zhang, graduated 2016 (co-advised)

Thesis: Robust Electrothermally Actuated Scanner for Fiberoptic Endoscopic Imaging and Wide-angle Optics

Apple (first appointment)

D09 Francesco Pittaluga, graduated 2019

Thesis: Privacy Preserving Computational Cameras

2018 Microsoft Research Dissertation Awardee

NEC Labs (first appointment)

D08 Kristofer Henderson, graduated 2020

Thesis: Sensor Fusion for Non-Line-of-Sight Visualization and Imaging

Lockheed Martin (first appointment)

D07 Dingkang Wang, graduated 2021

Thesis: Quasi-static forward scanning electrothermal MEMS mirrors for LIDAR
Texas Instruments (first appointment)

D06 Xiaomeng Liu, graduated 2022

Thesis: Lightweight Light Transport for Non-line-of-sight Imaging

D05 Brevin Tilmon, graduated 2023

Thesis: Foveated Computational Imaging
Quidient (first appointment)

D04 Justin Folden, expected May 2023

D03 Jackson Arnold, expected May 2026

D02 Hannah Kirkland, expected Dec 2026

D01 Yuxuan Zhang, expected Dec 2026

Thesis committees

Yiming Cui Electrical and Computer Engineering

Dylan Stewart Electrical and Computer Engineering

Taylor Harvey Nuclear Engineering Science

Xiaohui Huang Computer Science

Washington Garcia Computer Science

Heng Qiao Electrical and Computer Engineering

Guohao Yu Electrical and Computer Engineering

Jiaqi Zhang Electrical and Computer Engineering

Keerthiraj Nagaraj Electrical and Computer Engineering

Rajendra Bhat Electrical and Computer Engineering

Richard Al-Bayaty Electrical and Computer Engineering

Manu Chandran Electrical and Computer Engineering

Pratik Brahma Electrical and Computer Engineering

Chiranjib Sur Computer Engineering

Kelsey Stadniki Nuclear Engineering Sciences

Xiaohui Huang Computer Science

Inchul Choi Computer Science

Xianjin Dai Biomedical Engineering

Paul Johns Nuclear Engineering Science

AWARDS

Linda and Kent Fuchs Faculty Fellow (2023-present)

UF Term Professorship (2021-24)

ONR Summer Faculty Fellow ¹ (2021)

NSF CAREER Award (2020-5)

Best Paper Award Finalist (CVPR 2019)

¹Cancelled due to COVID-19

Best Student Paper Award (NEMS 2018)
Best Student Paper Award (ECCV 2016)
Outstanding Reviewer Award (ECCV 2016)
USC Computer Science Award for Outstanding Achievement (2003)
USC Trustee Scholarship (full tuition) (1999-2003)
USC Undergraduate Engineering Research Award (1999-2003)

SERVICE

S05 PAMI Chair for International Conference on Computational Photography (ICCP) 2023

S04 Area chair for Computer Vision and Pattern Recognition (CVPR) 2019/2020/2023

S03 Co-chair for Cameras and Computational Displays (CCD) 2018 workshop held in conjunction with CVPR 2018/2019

S02 Posters/Demos co-chair for International Conference on Computational Photography (ICCP) 2018 and 2020

S01 Reviewer for Scholarly Journals/Conferences

IEEE Pattern Analysis and Machine Intelligence (PAMI), IEEE Transactions on Image Processing (TIP), International Journal on Computer Vision (IJCV), Computer Vision and Pattern Recognition (CVPR), European Conference on Computer Vision (ECCV), International Conference on Computer Vision (ICCV), International Conference on Computational Photography (ICCP)

INVITED TALKS AND SEMINARS

IT 34 Adaptive Attention: Bringing Active Vision into the Camera
University of Southern California
Los Angeles, CA (October 2023)

IT 33 Adaptive Attention: Bringing Active Vision into the Camera
University of Colorado, Boulder
Boulder, CO (February 2023)

IT 32 Adaptive Attention: Bringing Active Vision into the Camera
University of Toronto
Toronto, Canada (October 2022)

IT 31 Adaptive Attention: Bringing Active Vision into the Camera
University of Washington
Seattle, WA (April 2022)

IT 30 Adaptive Attention: Bringing Active Vision into the Camera
Purdue University
West Lafayette, IN (February 2022)

IT 29 Adaptive Attention: Bringing Active Vision into the Camera
University of Arizona

Tucson, AZ (February 2022)

IT 28 Adaptive Attention: Bringing Active Vision into the Camera
Kyoto University

Kyoto, Japan (December 2021)

IT 27 Adaptive Attention: Bringing Active Vision into the Camera
Stevens Institute of Technology

Hoboken, NJ (November 2021)

IT 26 Adaptive Attention: Bringing Active Vision into the Camera
Cornell University

Ithaca, NY (November 2021)

IT 25 Adaptive Attention: Bringing Active Vision into the Camera
Simon Fraser University

Vancouver, Canada (September 2021)

IT 24 Adaptive Attention: Bringing Active Vision into the Camera
Oregon State University

Corvallis, OR (September 2021)

IT 23 Adaptive Attention: Bringing Active Vision into the Camera
Toyota Technical Institute Chicago

Chicago, IL (August 2021)

IT 22 Fast Foveating Sensors

University of Buffalo

Buffalo, NY (April 2021)

IT 21 Fast Foveating Cameras

Optical Society of America (OSA) Imaging Systems and Applications

Vancouver, Canada (June 2020)

IT 20 Fast Foveating Cameras

Carnegie Mellon University Vision and Autonomous Systems (VASC) Seminar

Pittsburgh, PA (Feb 2020)

IT 19 Fast Foveating Cameras

Computer Vision and Pattern Recognition (CVPR) Area Chair Workshop

La Jolla, CA (Feb 2020)

IT 18 Fast Foveating Cameras

Rice University

Houston, TX (Feb 2020)

IT 17 Fast Foveating Cameras

Rutgers University

New Brunswick, NJ (Oct 2019)

IT 16 Selective Imaging with Computational Cameras

Snap Research Lab
New York, NY (Oct 2019)

IT 15 Fast Foveating Cameras
Texas Photonics Center and Center for Digital MEMS University of Texas
Dallas, TX (April 2019)

IT 14 Fast Foveating Cameras
CVPR AC Workshop
La Jolla, CA, (Feb 2019)

IT 13 Fast Foveating Cameras
Institute for Virtual Environments and Video Games, University of California
Irvine, CA (Feb 2019)

IT 12 Fast Foveating Cameras
Banff International Research Station for Mathematical Innovation and Discovery (BIRS),
Computational Light Transport Workshop
Banff, Canada, (Feb 2019)

IT 11 Optics and Sensing for Small Vision Platforms
FAU I-SENSE
Boca Raton, FL (Jan 2019)

IT 10 Toward Miniature Computer Vision Sensors
OSA Imaging Systems and Applications
Orlando, FL (June 2018)

IT 09 Small Vision Sensors for Phenomics
Phenome
Tucson, AZ (February 2018)

IT 08 Towards Privacy Preserving Cameras
ASU SENSIP
Phoenix, AZ (2018)

IT 07 Wide-FOV Sensing & Optical Processing for Small Vision Applications
OSA Incubator on Small Eyes and Smart Minds
Washington, DC (October 2017)

IT 06 Towards Privacy Preserving Cameras
IRISA-Rennes
Rennes, France (2017)

IT 05 Towards Privacy Preserving Cameras
Technicolor R&D Labs
Rennes, France (2017)

IT 04 Towards Privacy Preserving Cameras
INRIA-Bordeaux/LPN2
Bordeaux, France (2017)

IT 03 Towards Privacy Preserving Cameras
UCF CRCV
Orlando, FL (2017)

IT 02 Towards Micro Vision Sensors
UCF CREOL
Orlando, FL (2017)

IT 01 Privacy Preserving Sensors
University of Miami CSD
Miami, FL (2015)

MEDIA COVERAGE

MC 07 "Fresh Coffee from Florida? Scientists are Brewing up the Possibility"
freshproduce.com 2021

MC 06 "Revealing Scenes by Inverting SFM Reconstructions"
Computer Vision News 2020

MC 05 "Best of ECCV: Focal Flow"
Computer Vision News 2016

MC 04 "RoboBees Can Fly and Swim. What's Next? Laser Vision"
Smithsonian Magazine 2015

MC 03 "RoboBee Lidar Useful for Robocars?"
IEEE Spectrum 2015

MC 02 "'RoboBees' with Laser Eyes Could Locate Disaster Victims"
NBC News 2015

MC 01 "Scientists Are Using Lasers to Teach RoboBees to See"
Smithsonian Magazine 2015

OTHER INFORMATION

Languages: English, Hindi, Kannada
Citizenship: U.S.A
Lab Website: focus.ece.ufl.edu