

Stephan J. Lemmer

lemmersj@umich.edu

www.stephanlemmer.com

Prepared on October 22, 2021

Academic Positions	Graduate Student Research Assistant Corso Research Group University of Michigan, Ann Arbor, MI	September 2017-Present
	Research Engineer Intelligent Vehicle Systems Southwest Research Institute, San Antonio, TX	June 2012-August 2017
	Undergraduate Researcher Collaborative Mechatronics Lab University of Denver, Denver, CO	June 2011-August 2011
Research Focus	Optimization of the interaction between humans and modern computer vision methods. What is the origin of mistakes? Does additional information benefit us?	
Education	University of Michigan Ph. D. in Robotics (In Progress) Advisor: Jason J. Corso	Ann Arbor, MI 2017-Present
	University of Michigan M.S. in Robotics	Ann Arbor, MI May 2019
	University of Texas, San Antonio M.S. in Applied Mathematics/Industrial Mathematics	San Antonio, TX May 2015
	Rose-Hulman Institute of Technology B.S. in Mechanical Engineering	Terre Haute, IN May 2012
Publications	S.J. Lemmer and J. J. Corso. Come Again? Re-Query in Referring Expression Comprehension. <i>arXiv:2110.10206</i> , 2021	
	S. J. Lemmer and J. J. Corso. Ground-truth or DAER: Selective Re-query of Secondary Information. In <i>Proceedings of the International Conference on Computer Vision</i> , 2021. <i>AR: 25.9%; h5: 184 (ICCV)</i>	
	S. J. Lemmer , J. Y. Song, and J. J. Corso. Crowdsourcing More Effective Initializations for Single-Target Trackers Through Automatic Re-querying. In <i>Proceedings of the ACM Conference on Human Factors in Computing Systems</i> , 2021 <i>AR: 26.3; h5: 101 (CHI)</i>	
	J. Y. Song, S. J. Lemmer , M. X. Liu, S. Yam, J. J. Corso, and W. S. Lasecki. Popup: Reconstructing 3d video using particle filtering to aggregate crowd responses. In <i>Proceedings of ACM International Conference on Intelligent User Interfaces</i> , 2019 <i>AR: 25%; h5: 27 (IUI)</i>	

P. K. Sturgeon, C. M. Mott, **S. J. Lemmer**, and M. A. Brown. Subtle Anomaly Detection in the Global Dynamics of Connected Vehicle Systems. In *Proceedings of the Intelligent Transport Systems Congress*. 2016.

S. J. Lemmer. Loosening the Reins: Decentralized Allocation of Resources and Tasks for Heterogeneous Multi-Agent Systems. In *Proceedings of AUVSI Xponential*, 2016

Patents

J. Y. Song, **S. J. Lemmer**, J. J. Corso, and W. S. Lasecki. Reconstructing 3D Video Using Particle Filtering to Aggregate Crowd Responses. United States Patent Application, No. 2020/0,202,615 A1.

J. D. Walker, D. J. Pomeroy, K. C. Kozak, N. J. Mueshke, **et al.**, Edge-On Armor System with Translating and Rotating Armor Panels. United States Patent, No. 10,775,136 B2.

S. J. Lemmer, C. M. Mott, and P. A. Avery. Autonomous Team Formation and Task Negotiation Among Unmanned Vehicles. United States Patent, No. 10,432,729 B2.

S. J. Lemmer and D. R. Chambers. Sensor Confidence Estimation Based on Statistical Analysis. United States Patent, No. 10,235,629 B2.

S. J. Lemmer. Protective Case Adapted to Support a Smartphone. United States Patent, No. 62,297,097.