

Christopher R. Hudson

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Experience

Research Engineer II

CAVS, Mississippi State

08/2020 – Present

Research Engineer I

CAVS, Mississippi State

08/2017 – 08/2020

Graduate Research Assistant

CAVS, Mississippi State

06/2014 – 08/2017

Education

PhD Computer Science

Mississippi State University, Mississippi State, MS

2014 – 2022

***Dissertation topic:** “The Effects of Ecological Simulation for Ground Vehicle Mobility Forecasting”

B.S. Computer Science

UNC Pembroke, Pembroke, NC

2010 – 2014

Relevant Publications

Sharma, S., Dabbiru, L., Hannis, T., Mason, G., Carruth, D. W., Doude, M., M., Goodin, C., Hudson, C., Ozier, S., Ball, J.E. & Tang, B. (2022). CaT: CAVS Traversability Dataset for Off-Road Autonomous Driving. *IEEE Access*.

Dabbiru, L., Sharma, S., Goodin, C., Ozier, S., Hudson, C., Carruth, D., ... & Ball, J. (2021, April). Traversability mapping in off-road environment using semantic segmentation. In *Autonomous Systems: Sensors, Processing, and Security for Vehicles and Infrastructure*

2021 (Vol. 11748, p. 117480C). International Society for Optics and Photonics.

Sharma, S., **Hudson, C.**, Carruth, D., Doude, M., Ball, J. E., Tang, B., ... & Dabbiru, L. (2020, April). Performance analysis of semantic segmentation algorithms trained with JPEG compressed datasets. In *Real-Time Image Processing and Deep Learning 2020* (Vol. 11401, p. 1140104). International Society for Optics and Photonics.

Sharma, S., Goodin, C., Doude, M., **Hudson, C.**, Carruth, D., Tang, B., & Ball, J. (2020). *Understanding how rain affects semantic segmentation algorithm performance* (No. 2020-01-0092). SAE Technical Paper.

Goodin, C., Sharma, S., Doude, M., Carruth, D., Dabbiru, L., & **Hudson, C.** (2019). *Training of neural networks with automated labeling of simulated sensor data* (No. 2019-01-0120). SAE Technical Paper.

Davis, M., Cagle, L., Morgan, C., **Hudson, C.**, Shell, B., Gardner, D., ... & LeClair, A. (2018, May). Hydra: a modular, universal multi-sensor data collection system. In *Autonomous Systems: Sensors, Vehicles, Security, and the Internet of Everything* (Vol. 10643, pp. 78-95). SPIE.

References

Available upon request