Research Fellow (RGB camera and LiDAR) - LX
Singapore Institute of Technology

Job Title	Research Fellow (RGB camera and LiDAR) - LX
Department	Infocomm Technology
Institution	Singapore Institute of Technology
	Singapore, , Singapore
Date Posted	Jun. 28, 2023
Application Deadline	Open until filled
Position Start Date	Available immediately
Job Categories	Graduate Student
	Research Scientist/Associate
Academic Field(s)	Computer Science
Job Website	https://careers.singaporetech.edu.sg/cw/en/job/498446/research-fellow-rgb-camera-and-lidar-lx
Apply By Email	
Job Description	

Research Fellow (RGB camera and LiDAR) - LX

Job no: 498446
Department: Infocomm Technology
Contract type: Contract
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As a University of Applied Learning, SIT works closely with industry in our research pursuits. Our

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research staff will have the opportunity to be equipped with applied research skill sets that are relevant to industry demands while working on research projects in SIT.

The primary responsibility of this role is to deliver on an innovation research project where you will be part of the research team to conduct applied research in the topic of robust AI for autonomous driving perception. Detailed research tasks include physical-space adversarial example attacks, applying redundancy and diversity of deep neural networks to harden object detection and semantic segmentation, as well as maintaining the real-time performance of the hardened AI computing on embedded GPUs (NVIDIA Jetson AGX Orin). RGB camera and LiDAR will be the main sensing modalities to be studied.

Key Responsibilities

- Participate in and manage the research project with Principal Investigator (PI), Co-PI and the research team members to ensure all project deliverables are met.

- Undertake these responsibilities in the project:

  i. Conduct the research work in robust AI for autonomous driving perception
  ii. Work with the research engineers, collaborators and the industry partner to develop prototype of the proposed solution for testing

- Carry out Risk Assessment, and ensure compliance with Work, Safety and Health Regulations.
- Coordinate procurement and liaison with vendors/suppliers.
- Work independently, as well as within a team, to ensure proper operation and maintenance of equipment.

Job Requirements

- Have relevant competence in the areas of Deep Learning/Computer Vision
- Have a PhD degree in computer science/engineering or related disciplines.
- Knowledge of autonomous vehicles or cyber security will be advantageous.
- Have strong research record, preferably on top-tier computer science/engineering conferences.

Apply now
Advertised: 28 Jun 2023 Singapore Standard Time
Applications close: 31 Aug 2023 Singapore Standard Time

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Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

Contact

Singapore