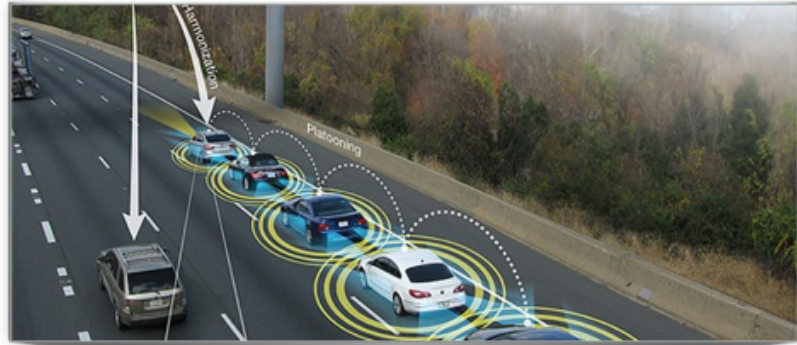


The Delft Center for Systems and Control (DCSC) at Delft University of Technology (TU Delft) in the Netherlands has vacancy for

One PhD Position in Fault and Cyber-attack Tolerance for Distributed Systems

Project Description: The successful candidate will carry out research in support of Dr. Ferrari project called SURE¹: Safe Unmanned Robotic Ensembles. The goal of SURE is to make formations of mobile robots, such as cooperative self driving cars, robust to faults or cyber-attacks that could affect one or more robots.



The PhD student will develop model-based algorithms capable of detecting and isolating faults or cyber-attacks affecting a robot or its neighbors, as well as accommodation techniques. There will be the possibility to test such algorithms on a multi-robot setup in our laboratories. Furthermore, developed algorithms are expected to be generalized in order to be applied to other distributed systems, not only in the field of mobile robotics.

Requirements: the applicant should have obtained a M.Sc. degree in a field related to the project, such as electrical or electronics engineering, systems & control, mechanical engineering or computer science. A good command of the English language is required. Candidates with a background in fault diagnosis, multi-robots formations or distributed (parameters)-systems are especially encouraged to apply.

Conditions of Employment: The position will start preferably on September 1st, 2017, and run for four years. The successful candidate will be enrolled in the University graduate school. Salary and benefits are in accordance with the Collective Labour Agreement for Dutch Universities. Candidates actually in the process of obtaining their M.Sc. degree can be considered subjected to the condition of having completed it no later than the required starting date.

About Delft University of Technology: TU Delft is an internationally recognized research university that has been ranked 19th in the Engineering and Technology section of the worldwide QS World University Ranking 2015/16. In the THE World University Ranking 2016/17, TU Delft has been ranked 20th in Engineering and Technology section. TU Delft is an equal opportunity employer and committed to increase the diversity of its staff. Female candidates are encouraged to apply, more information on gender related initiatives and policies can be found at <https://www.tudelft.nl/en/about-tu-delft/strategy/diversity-policy/dewis/gender-policy>.

Application and More Information: Please send your application including a motivation letter, a curriculum vitae, a list of courses with grades, and contact information for two academic references to Dr. Riccardo Ferrari (r.ferrari@tudelft.nl). Dr. Ferrari can also be contacted for more information about this vacancy. The vacancy will remain open until a suitable candidate has been found.

¹ Funded by European Union under call H2020-MSCA-IF-2015, grant no. 707546.