

## Assist./Assoc. Professor in Data Fusion for Intelligent Vehicles

### Specificaties - (uitleg)

<b>Locatie</b>	Delft
<b>Functietypes</b>	Professors, associate professors, assistant professors and lecturers, Research, Development, Innovation
<b>Wetenschappelijke discipline</b>	Engineering
<b>Uren</b>	38,0 uren per week
<b>Salaris</b>	€ 3545 - € 6567
<b>Werk-/denkniveau</b>	Doctorate
<b>Vacaturenummer</b>	3mE19-57
<b>Vertalingen</b>	en
<b>About employer</b>	<a href="#">Delft University of Technology (TU Delft)</a>
<b>Short link</b>	<a href="http://www.academictransfer.com/55446">www.academictransfer.com/55446</a>

### APPLY TODAY!

#### Job description

The Cognitive Robotics department at TU Delft seeks to fill a faculty position in the area of data fusion for intelligent vehicles at the level of Assistant (tenure-track) or Associate Professor (tenured). The position covers multi-modal sensor processing (e.g. vision, radar, LiDAR, GNSS/INS) for on-board environment perception and localization/mapping, in complex and dynamic environments (e.g. urban traffic). Specific topics of interest include:

- Object detection (position, pose and shape estimation)
- Environment representation (e.g. sensor-level, grid-level, object-level)
- Multi-target tracking
- Simultaneous localization and mapping (SLAM)
- Distributed sensing
- Life-long mapping of large scale environments
- Statistical methods and machine learning incl. deep learning
- Heterogeneous and temporal data fusion.

#### Requirements

Applicants should have the following qualifications:

- PhD degree in Computer Science, Artificial Intelligence, Electrical/Mechanical Engineering, or related discipline. Experience in robotics and/or intelligent vehicles is an asset
- Experience as a Post-Doc/Assistant Professor
- Excellent track record in scientific research, as evident from publications in top-tier conferences and journals
- Proven ability to provide inspiring teaching at both undergraduate and graduate levels (in English)
- High motivation to pursue and establish an own research direction within an interdisciplinary environment
- Organizational and managerial skills to interact and cooperate effectively with staff and other research institutes and organizations, including industry
- Experience in the acquisition of external funding.

#### Conditions of employment

A tenure track position is offered for a maximum of six years. Tenure Track is a process leading up to a permanent appointment with the prospect of becoming an Associate Professor. During the Tenure Track, you will have the opportunity to develop into an internationally acknowledged and recognized

academic. To support that, we offer a structured career and personal development program, which accounts for individual needs and preferences. For more information about the tenure track and the personal development program, please visit [www.tudelft.nl/tenuretrack](http://www.tudelft.nl/tenuretrack).

Based on performance indicators agreed upon at the start of the appointment, a decision will be made at the end of the fifth year whether to offer you a permanent faculty position.

The salary for a Tenure Track (Assistant Professor) position is min. €3.545 to max. €5.513 per month gross. For exceptionally strong candidates, a shortened tenure track period or Associate Professor position can be considered.

For an Associate Professor position different terms of employment apply. Depending on background and experience, the salary can range from min. €4.911 to max. €6.567 per month gross. All salaries mentioned are based on full time contracts.

The TU Delft offers a customizable compensation package, a discount for health insurance and sport memberships, and a monthly work costs contribution. Flexible work schedules can be arranged. An International Children's Centre offers childcare and an international primary school. Dual Career Services offers support to accompanying partners. The TU Delft offers trainings to improve English and Dutch language competencies.

Salary and benefits are in accordance with the Collective Labour Agreement for Dutch Universities.

TU Delft creates equal opportunities and encourages women to apply.

**Employment:** Temporary, Tenure track, permanent

#### **Employer**

##### [Delft University of Technology](#)

Delft University of Technology (TU Delft) is a multifaceted institution offering education and carrying out research in the technical sciences at an internationally recognised level. Education, research and design are strongly oriented towards applicability. TU Delft develops technologies for future generations, focusing on sustainability, safety and economic vitality. At TU Delft you will work in an environment where technical sciences and society converge. TU Delft comprises eight faculties, unique laboratories, research institutes and schools.

#### **Faculty & Department**

##### [Faculty Mechanical, Maritime and Materials Engineering](#)

The 3mE Faculty trains committed engineering students, PhD candidates and post-doctoral researchers in ground breaking scientific research in the fields of mechanical, maritime and materials engineering. 3mE is the epitome of a dynamic, innovative faculty, with a European scope that contributes demonstrable economic and social benefits.

The Cognitive Robotics department has the mission to develop intelligent robots and vehicles that will advance mobility, productivity and quality of life. The department combines fundamental research with work on physical demonstrators in areas such as self-driving vehicles, collaborative industrial robots, mobile manipulators and haptic interfaces. Of special interest are robotic solutions for complex, human-inhabited environments. Collaborations exist with cross-faculty institutes (TU Delft Robotics Institute and TU Delft Transport Institute), the national robotic ecosystem (RoboValley, Holland Robotics) and international academia and industry.

The faculty opening is within the Intelligent Vehicles group; it focuses on methods for environment perception, dynamics and control and human factors in the context of automated driving. For more information, see [Cognitive Robotics \(CoR\)](#) and [Intelligent Vehicles](#).

### **Information and application**

For more information about this position, please contact Prof. D.M. Gavrilă (e-mail: [d.m.gavrilă@tudelft.nl](mailto:d.m.gavrilă@tudelft.nl)).

To apply, please submit (in one single pdf file):

- a motivation letter,
- a detailed CV,
- a research and teaching statement,
- electronic copies of your top three publications, and
- contact data of three references.

Applications should be submitted to [Application-3mE@tudelft.nl](mailto:Application-3mE@tudelft.nl), referring to vacancy number 3mE19-57 in the subject of the email. Application deadline is 15 October 2019.