

H2020-MSCA-ITN-2018 SAS. Proposal Number 812788



Safer Autonomous Systems

European Training Network on
Safer Autonomous Systems (SAS)

D5.1 – Project Website



This project has received funding from the European Union's
EU Framework Programme for Research and Innovation
Horizon 2020 under Grant Agreement No. 812.788

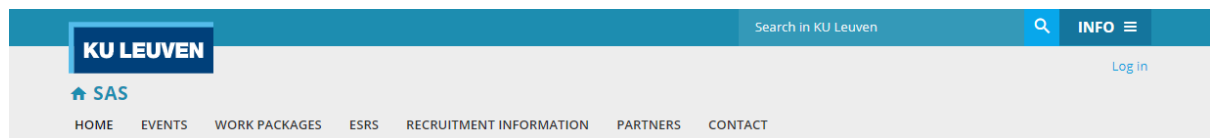
1. Project Information

- URL www.etn-sas.eu
- Date online: June 27th, 2018
- Contents:
 - Home page (Introduction and Project Description)
 - Overviews:
 - Work Packages
 - ESR overview
 - Contact information
 - Past and upcoming events
 - Specific recruitment information

Note: Work is done to migrate the website within a different CSS framework, providing a more intuitive feel. Furthermore, the website will then be more suitable to be displayed on different devices such as smartphones or tablets.

2. Screenshots

2.1. Home page



[Home](#)

SAS - SAFER AUTONOMOUS SYSTEMS

Marie Skłodowska-Curie Actions - Innovative Training Networks (ITN)

The information for preselected candidates can be found [here](#).



INTRODUCTION

The coming of autonomous systems doesn't just mean self-driving cars. Advances in artificial intelligence will soon mean that we have drones that can deliver medicines, crew-less ships that can navigate safely through busy sea lanes, and all kinds of robots, from warehouse assistants, to search-and rescue robots, down to machines that can disassemble complex devices like smartphones in order to recycle the critical raw materials they contain.

As long as these autonomous systems stay out of sight, or out of reach, they are readily accepted by people. The rapid and powerful movements of assembly-line robots can be a little ominous, but while these machines are at a distance or inside protective cages we are at ease. However, in the near future we'll be interacting with "cobots" – robots intended to assist humans in a shared workspace. For this to happen smoothly we need to ensure that the cobots will never accidentally harm us. This question of safety when interacting with humans is paramount. No one worries about a factory full of autonomous machines that are assembling cars. But if these cars are self-driving, then the question of their safety is raised immediately. People lack trust in autonomous machines and are much less prepared to tolerate a mistake made by one. So even though the widespread introduction of autonomous vehicles would almost eliminate the more-than 20,000 deaths on European roads each year¹, it will not happen until we can provide the assurance that these systems will be safe and perform as intended. And this is true for just about every autonomous system that brings humans and automated machines into contact.

Until now, safety assurance has been integrated into the design processes, based on safety standards and demonstrating compliance during the system's test

2.2. Events overview page

[Home](#) > SAS Events

SAS EVENTS

1. RECRUITEMENT EVENT

To register for the recruitment event, please go [here](#).

A. Invited Candidates

Raul Ferreira (Brazil)	Viktor Dzheleopov (Bulgaria)	Joao Vitor Zacchi (Brazil)
Yuan Liao (China)	Saad Essahli (Morocco) [Withdrawn]	Bochra Salah Salah (Algeria)
Sara Bouterfas (France)	Deepth Pilakeezhu (India)	Savin Gautam (Nepal)
Hassan Tirmizi (Pakistan)	Christoph Senn (Switzerland) [Withdrawn]	Luca Vittorio Sartori (Italy)
Dousai Nayee Muddin Khan (India)	Anass Jamali (Morocco)	Ahmad Adee (Pakistan)
Jinru Zhang (China) [Withdrawn]	Anup Saha (Bangladesh) [Withdrawn]	Vilma Muco (Albania)
Aditya Chandrasekar Ramesh (India)	Haris Aftab (Pakistan)	Britzel Cortez Sic (Guatemala)
Frankline Maguimeselvam (India)	Orian Dheu (France)	Pietro Benintendi (Italy) [Withdrawn]
Jenny Kamtcheu (Cameroon)	Muhammad Ammar Malik (Pakistan) [Withdrawn]	Yali Nie (China)

B. Information for Selected Candidates

- > **November 23, 2018 - 16Hr00 (Brussels Time):** Deadline final presentation submission
- > **November 27, 2018:** Recruitment event (Bruges)

2.3. Agenda Recruitment Event

[Home](#) > Recruitment Event Registration

RECRUITMENT EVENT REGISTRATION

AGENDA AND LOCATION

Location: **Crowne Plaza, Bruges** ([Hotel Website](#))

Rooms available at €135/night. To be booked directly through Crowne Plaza.

The hotel reservation form is found [here](#).

[Please mention you are coming for the SAS Event]

November 26, 2018

Time	Meeting
12hr30 - 13hr00	Welcome with coffee and refreshments
13hr00 - 14hr00	Presentation by Lukas Lanneau on consortium agreement and project execution/budget rules + discussion
14hr00 - 18hr00	Recruitment training provided by KU Leuven HR
18hr30 - 21hr00	Dinner

November 27, 2018

Time	Room/Jury 1	Room/Jury 2	Room/Jury 3
08hr15 - 08hr30	Reminder procedure to jury members		
08hr30 - 09hr15	Viktor Dzheleopov	Hassan Tirmizi [v]	Sara Bouterfas
09hr15 - 10hr00	Luca Vittorio Sartori	Savin Gautam [v]	Deepth Pilakeezhu
10hr00-10hr45	Joao Vitor Zacchi	Vilma Mucco	Ahmad Adee
10hr45 - 11hr00	Cofee break		

2.4. ESR overview page

[Home](#) > [ESRS](#)

ESRS

QuickLink: [ESR 1](#) [ESR 2](#) [ESR 3](#) [ESR 4](#) [ESR 5](#) [ESR 6](#) [ESR 7](#) [ESR 8](#) [ESR 9](#) [ESR 10](#) [ESR 11](#) [ESR 12](#) [ESR 13](#) [ESR 14](#) [ESR 15](#)

ESR1: DEVELOPMENT OF A GENERIC FRAMEWORK TO MONITOR AND HANDLE SAFETY OF AUTONOMOUS SYSTEMS AT RUN-TIME

Host: LAAS-CNRS (France)

Main supervisor: Prof. J. Guiochet (jeremie.guiochet@laas.fr)

Co-supervisors/mentors:

- > Prof. M. Trapp (Fraunhofer – Germany)
- > Dr. P. Barber (Jaguar Land Rover – UK)

Duration: 36 months

Required profile: Computer Science, Software Engineering

Desirable skills/interests: Embedded Systems, Dependability

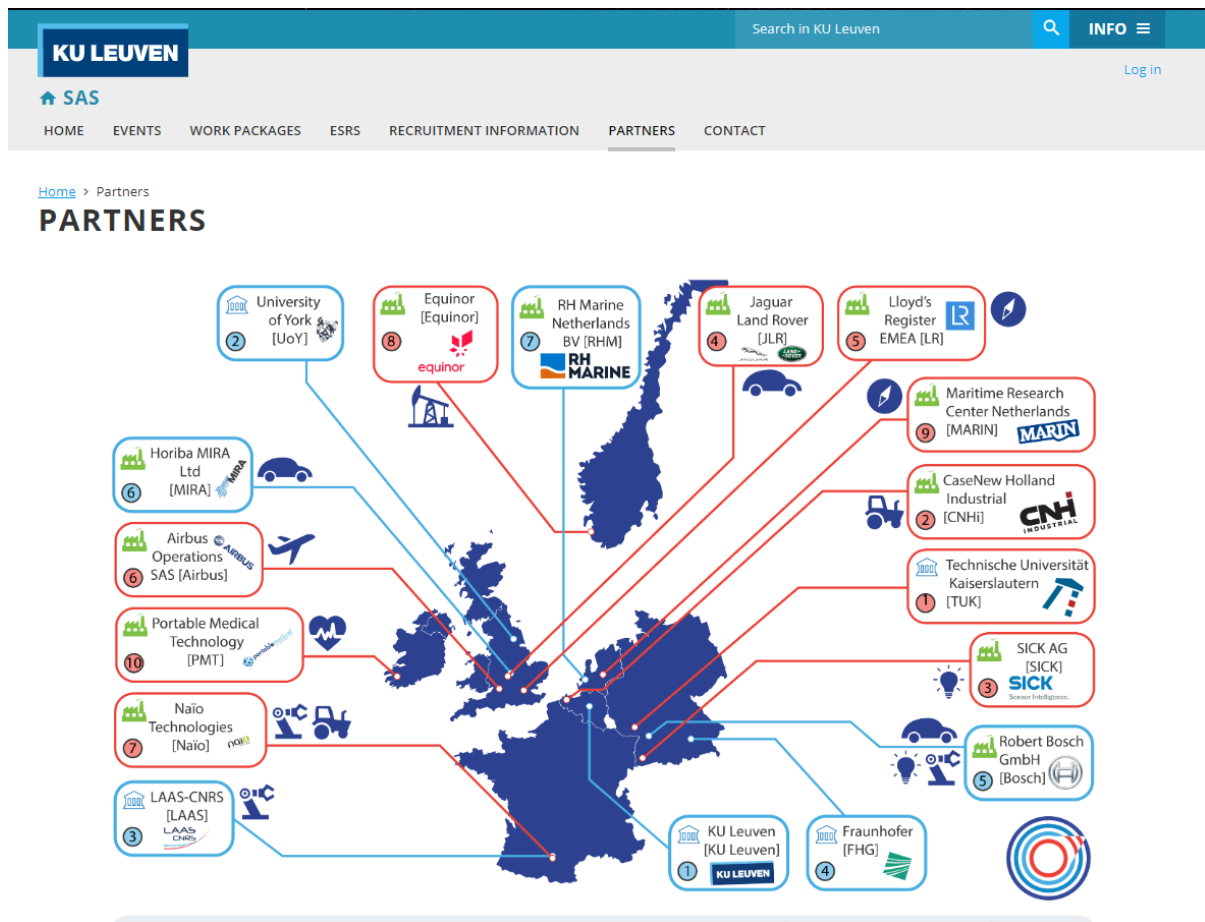
Objectives: ESR1 will define, implement and validate a framework facilitating black/grey-box monitoring of autonomous functionality at run-time. ESR1 will combine and extend existing approaches for run-time error detection and handling for assuring safety of autonomous systems without the need to prove the correctness / safety of the monitored (Artificial Intelligence) algorithms as such.

ESR2: DEVELOPMENT OF AN ADAPTIVE PLATFORM FOR RESILIENT AUTONOMOUS SYSTEMS BASED ON A MAPE-K CYCLE

Host: Fraunhofer (Germany)

Main supervisor: Prof. M. Trapp (mario.trapp@iese.fraunhofer.de)

2.5. Parters overview page



This project has received funding from the European Union's EU Framework Programme for Research and Innovation Horizon 2020 under Grant Agreement No. 812.788