



Automated Vehicles Workshop June, 12th, 2017

Having been at the forefront of research and development in Electric Vehicles (EV) and Smart Grids, it is noticeable that Portugal does not present the same indicators' performance in Automated Vehicles (AV) research. Therefore, being one of the top research university in the Country, the Centre for Informatics and Systems of the University of Coimbra (CISUC), with the support of the Delft University of Technology (TU Delft), is organizing a workshop dedicated to this important topic, putting together a program that joins key international and national key-note speakers to spark national interest in AVs. With this event we want to attract the research and entrepreneurial community in the fields of (including but not limited to) Machine Learning, Transport Modelling, Data Analysis and Urban Sensing for a productive discussion of the challenges that lie ahead in which Portugal could play an important role.

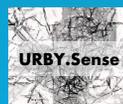
Data collected via ubiquitous devices, smart metering and from social media platforms provide a range of new close-to-real-time information that can be combined with the data from more traditional sources to extract the most significant mobility patterns, such as users' transportation needs, interests, habits, and their interrelated spatial distribution throughout the urban space. One can use these mobility profiles to simulate the process of an AV pooling system. An AV is one capable of imitating human capacities of handling and control, of perceiving the environment around it and acting accordingly. It is equipped with advanced control systems that interpret a large amount of information to identify the appropriate route as well as obstacles and relevant signalling. In the end, we aim at providing a set of AV pooling solutions that fit the current users' demand for transportation and, moreover, is able to enrich their mobility experience.

The morning will be dedicated to the theme of Autonomous Vehicles. In the afternoon we will present and discuss the progress of the FCT' funded project URBYSSENSE.

The workshop will have the presence of key international speakers, researchers and OEM manufactures' representatives. We would like to invite you to share your ideas, experience and research interests in the areas, effectively helping to spark the interest in AVs and Urban Sensing in Portugal.

Please register at: <http://wav2017.dei.uc.pt>

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Program – June, 12th, 2017

Morning – AV Workshop, room B1

- ❖ 09h30-09h45 Welcome
- ❖ 09h45-10h45 Invited talks
 - Bart van Arem
 - Assaf Biderman
 - Gonçalo Correia
- ❖ 10h45-11h15 Coffee break
- ❖ 11h15-11h30 AV technical, safety & security, legal & ethical issues
- ❖ 11h30-11h45 AV business models and opportunities
- ❖ 11h45-12h15 AV Q&A session and research avenues
- ❖ 12h15-12h30 Closing remarks

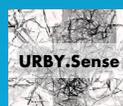
Lunch

- ❖ 12h30-14h00

Afternoon – URBY.Sense meeting, room F2.3

- ❖ 14h00-14h15 Welcome
- ❖ 14h15-14h30 The URBY.Sense project
- ❖ 14h30-14h45 Data acquisition
- ❖ 14h45-15h00 Data Fusion
- ❖ 15h00-15h30 Coffee break
- ❖ 15h30-16h30 Team and external committee meeting

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Invited Speakers



Assaf Biderman is a technology inventor, author, and entrepreneur. He is the Founder of Superpedestrian, a technology company that focuses on the future of personal urban mobility. He teamed up with a group of veteran roboticists to develop their first product: The Copenhagen Wheel - Senseable City Lab's award winning bicycle project. Superpedestrian has received multiple awards including the 2014 Red Dot: Luminary - the highest Red Dot distinction, the 2014 Deutscher Werkbund and Time Magazine's 25 Best Inventions of 2014. He also teaches at the Massachusetts Institute of Technology where he is the associate director of the SENSEable City Laboratory - a research group that explores the "real-time city" by studying the increasing deployment of sensors and networked miniaturized electronics, as well as their relationship to the built environment.

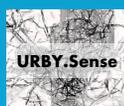


Bart van Arem was appointed full professor Transport Modelling at Delft University of Technology in 2009. He is head of the department Transport & Planning (20 permanent staff members, 80 PhD/postdoc researchers), member of the Management Team of the faculty of Civil Engineering and Geosciences and director of the TU Delft Transport Institute. Bart has conducted his research in close collaboration with international industrial partners such as BMW on authority transitions in real traffic. In the Netherlands he has worked with NXP, HERE, TomTom and Technolution on advisory in-car systems in several nationally funded projects. His international work extends beyond the EU, working on High Performance Vehicles Stream for FHWA in collaboration with UC Berkeley, on congestion reduction at sags by intelligent vehicles with Toyota, with Nissan on simulation of testing scenarios for automated vehicles and on driver support and automation with the ITS Research Centre of the Chinese Ministry of Transport.



Gonçalo H. A. Correia is an assistant professor in transportation systems modeling at the Department of Transport & Planning, TU Delft. His research focuses on transport demand management through the study of integrated multi-modal networks, intelligent transport systems, traveling behavior change and land use interactions. He is currently working in the field of automated vehicles and has led the D2D100%EV to assess how to integrate this technology into traditional transport networks as a first mile/last mile alternative. He has published more than 24 research papers in mobility innovations such as shared mobility, electric mobility and vehicle automation. He is part of the editorial boards of 5 international journals including Transportation Research Part C: Emerging Technologies (Elsevier). He has taught 12 courses on transport planning and operations research in Portugal and in the Netherlands.

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