GOVERNMENT OF DUBAI

ROADS & TRANSPORT AUTHORITY — RTA

DUBAI WORLD CONGRESS FOR SELF-DRIVING TRANSPORT

15 & 16 October, 2019
Za'abeel Hall 4 - 6
DWTC, Dubai, UAE

Submission Guidelines

The Dubai World Congress for Self-Driving Transport invites self-driving pioneers and innovators to submit their contributions for the purpose of presentation and publication under the following two categories.

Apply To Speak

To apply to speak, your presentation must be based on case studies that address projects, institutional, business, societal and economic aspects of self-driving vehicles as well as their related subjects. The case studies will need to be more project focused and practical in nature.

Submit Paper

Papers should be scientific or research papers. They should address innovation, analysis of new solutions, technologies and methodologies used to tackle the most recent problems and challenges facing the industry. Papers should be more research, technical and theory based. They need to be formatted and supported by graphs and images.

Requirements

Authors will be required to include sufficient content for the reviewers to judge your abstract appropriately. All Abstracts and submissions should include:

- Proposed Title
- Abstract length that is a maximum of 300 words
- Proposed speaker name, job title, company name and biography of no more than 500 words
- Contact information including direct line, mobile number and email address

Abstracts* will be submitted for review and authors will be notified if they are accepted or rejected.

*Scientific/Research paper's abstracts that are accepted will be asked to submit a full paper.

Contributions must be submitted through the online submission system by **7th April, 2019.**

Upon completion of your contribution, the system will automatically generate an acknowledgement e-mail. This is a confirmation of receipt and not a proof of acceptance.

Key Dates

- **10 March 2019:** Launch of paper submission
- **7 April 2019:** Abstract paper submission deadline
- **21 April 2019:** Status notification to paper authors
- **23 June 2019:** Final paper submission deadline for Scientific/Research paper submissions

The Dubai World Congress for Self-Driving Transport Scientific Committee is pleased to present the following 5 key themes driving the Congress:

Enabling Connectivity

Exploring how smart technologies enable connectivity through examples like HD mapping, connected cloud, cybersecurity and infrastructure technology

- How are automakers looking to monetize their data to offset the provision for connected services?
- From high bandwidth applications like streaming HD video to Safety Applications like C-V2X. How 5G will enable a new range of services?
- Examine the trends in automotive data connectivity and discuss the specific use cases and benefits relevant to the connected car

User-Focused Topics

The congress will look at the impact of human factors such as user and behavioural update and acceptance

- Connectivity to impact UX – embedded infotainment, mobile integration, 5G
- Understanding the Human element - evaluating the user experience with next generation assistants
- How can we leverage AI and Machine Learning [ML] to create more humanized in-car interactions?
- Match the service to consumers' needs - provide a general catch-all shared service? Or is there a market for safe rides for kids to go to school?
- How to adjust your design processes as vehicle usage shifts to a 'back seat' or 'passenger first' experience through the advent of mobility services

Policy & Legislation

Supporting the establishment of policy and legislation, congress will investigate the legal aspects, liability and licensing strategies from around the world

- Ensure compliancy at the intersection of policy and autonomy on a federal and state level and international level
- Adhere to data privacy and security policy and principles for AVs
- Get up to speed with the pace of transformation as policymakers and enforcement officials grapple with issues of safety, insurance, cybersecurity and privacy
- Build a robust strategy as the legal liabilities and regulatory compliance risks for businesses continue to rise
- Get to grips with new rules on gathering geo-location, driver behaviour and driver health data – who has access and how is it used?

Trials & Testbeds

International case studies and self-driving technology worldwide will provide examples of trials and testbeds along with lessons learned for our future deployment

- What are the latest testing and development methodology for AVs
- First-hand developments in semi-open and closed environment testing and how different industries from aerospace to space are testing AVs
- Measure implications upon economic strength and city safety by bringing a tech ecosystem to an urban test bed for autonomy and V2X

Virtual Testing & Models

Showcasing the latest virtual testing and models through simulators, artificial intelligence, new methods of computation and data assessment and planning

- Move from the lab to the test track to understand how the current crop of test centres are the key to obtaining real world validation of software-based test results
- Consider how simulator-based approaches focussed on virtual environments can be utilized to not only test but also train autonomous vehicle systems
- Achieving bench marking and optimum autonomous performance by standardizing simulation data sets
- Create safer autonomous systems by mapping out the end to end simulation tool trains
- Understand how scenario modelling can be applied to simulator-based validation approaches to ensure level 4 system reliability in any eventuality

For more information, please visit:
www.sdcongress.com