Welcome & Thank You

Emmy Awards & eCall regulations

why we’re here

ITUEvents

AI for Good Global Summit

Accelerating progress towards the SDGs

28-31 May 2019
Geneva, Switzerland

#AIforGood

In partnership with

XPRIZE

acm

Organized by

ITU

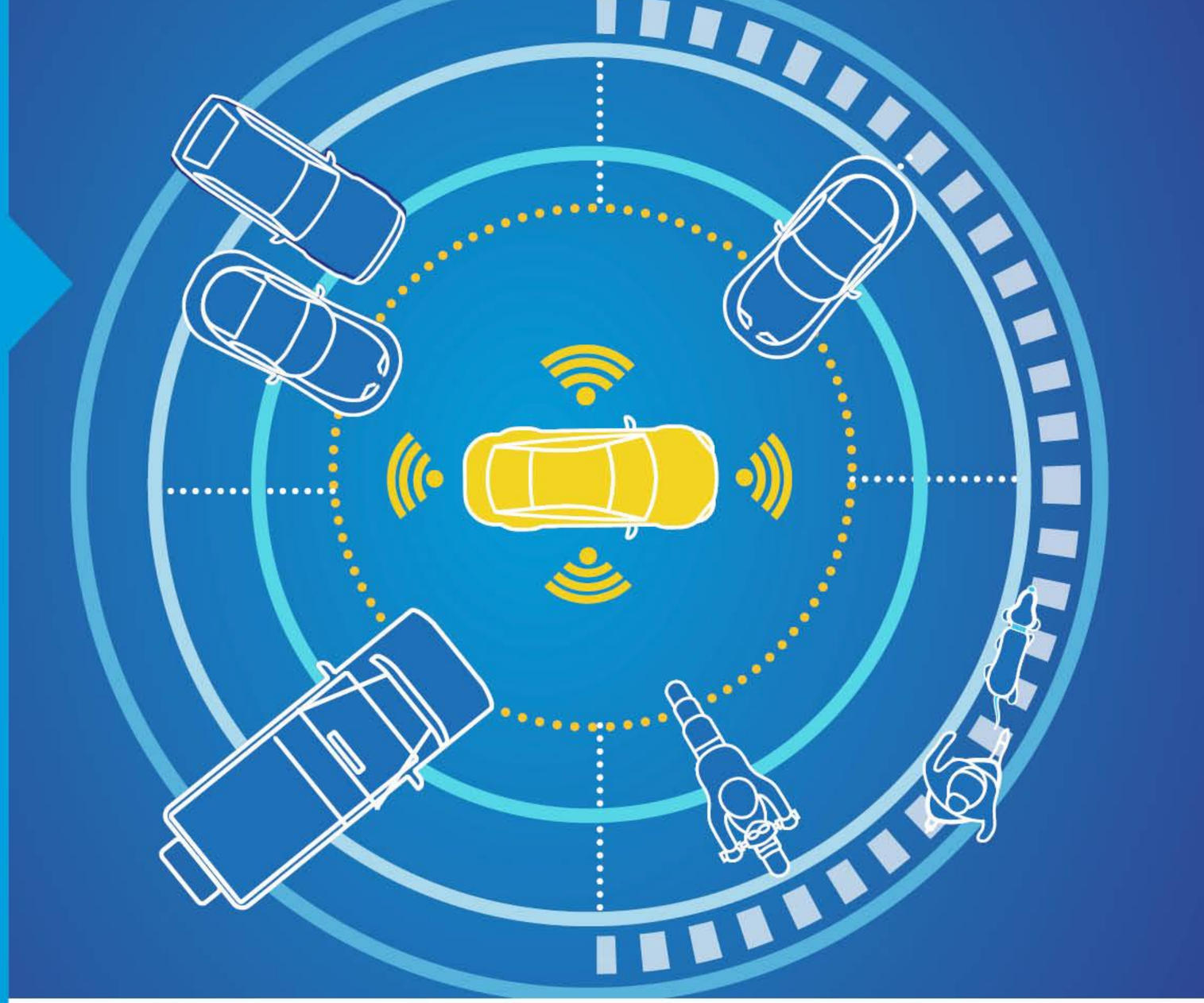
ITUEvents

One-day workshop

The Turing test for autonomous driving

A global performance standard for AI on our roads

10 September 2019
ITU Telecom World
Budapest, Hungary



Partner

AUTONOMOUS DRIVERS ALLIANCE

Organized by

ITU

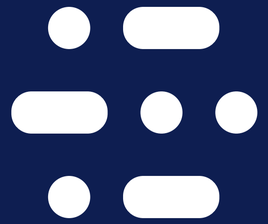
ITU Focus Group on AI for Autonmous and Assisted Driving
FG-AI4AD

ITU Workshop on Explainable AI (XAI) for Autonomous and Assisted Driving

new mobility, new decade, new perspective

The AI & Robotics Future of Mobility

21st Century Convention on Road Traffic



AUTONOMOUS
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motorsport as **#AIforGood**

#AIforGood

ROBORACE

AUTONOMOUS
DRIVERS
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NO STEP

MICHELIN

ROBORACE

#AIforGood

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ROBORACE

When **AI** becomes our **driver**, **co-driver**, **guardian** & **instructor**…

…what should our **minimal performance** expectation be?

Should **AI** be held to same **legal standards** as **human** drivers?

Situational Awareness & Risk

It starts with a **universal** assumption that all drivers are;
“**aware**, **willing** and **able**” to avoid collisions…

..and the recognition of behavioural **intent** that may conflict with this universal “**aware**, **willing** and **able**” assumption

Being **drunk**, **drowsy** or **distracted** violates the **aware**, **willing** and **able** assumption so we **regulate**, **educate** and may even **modify** our own behaviour to **mitigate** the **risk**

three proofs

Prove AI Drivers never engage in **careless, dangerous or reckless driving behavior**

In accordance to Article 7 of the Geneva Convention on Road Traffic *“**not to endanger**”*

Prove AI Drivers **meet, or exceed**, the performance of a **competent** and **careful** human driver

In accordance with Article 10 of the Geneva Convention on Road Traffic

“**reasonable and prudent**” driving

Prove AI Drivers remain **aware**, **willing** and **able** to **avoid collisions** at all times

In accordance to Article 7 of the Geneva Convention on Road Traffic *“**shall avoid all behaviour that might cause damage to persons, or public or private property**.”*

motorsport’s real-time driver performance assessment

Race Control field monitoring of driver behavioural performance


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6 NOR +45.088
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9 RAI +1.124
10 GIO +3.238
11 PER +1.593
12 HUL +1.708
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14 STR +3.901
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FG-AI4AD the **behavioural evaluation** of **AI** <drivers> ***at scale***

Session 1: Future of Mobility – Roadmaps and Perspectives

This session will provide a snapshot of the autonomous vehicle industry; progress, status and roadmap for the future.

Keynote

Michael Talbot, Head of Strategy, Zenzic

Session 2: Who drives in the AI & Robotics Future of Mobility?

This session will explore the role of the “driver” in the AI & Robotics future. How is “driver” being defined?

Keynote

Murray Rahn, Architect, Global Services, Nokia

Bryn Balcombe, Founder, ADA

Session 3: Reading the Road - Situational Awareness requirements for Human & AI drivers

This session will focus what unites human & AI drivers as a foundation for safety on our roads.

Keynote

Neville A. Stanton, Chair, Human Factors Engineering & Director, Human Factors Engineering Team, Transportation Research Group

Session 4: How safe is safe enough?

This session will explore the different AV industry perspectives arising from the question of how safe is safe enough when it comes to deploying automated vehicles and their testing.

Keynote

Rahul Khatry, TRL

Niels de Boer, Programme Director, Future Mobility Solutions (Autonomous Vehicles), Energy Research Institute/ CETRAN

Session 5: AI Ethics and implications for future mobility

This session will consider the impact that broader regulation of Artificial Intelligence (AI) and Algorithmic Systems may have on the future mobility.

Keynote

Christoph Lütge, Professor of Business Ethics and Director, Institute for Ethics in Artificial Intelligence, Technical University of Munich

Session 6: Assurance & regulation for Robotics and Autonomous Systems (RAS) & implications for future mobility

This session will consider how regulations of the mobility sector will be influenced by the cross-domain, cross-technology and cross-application research being conducted on the assurance and regulation of Robotic & Autonomous Systems (RAS).

Keynote

John .A. McDermid, Department of Computer Science, University of York Programme Director Assuring Autonomy & Chair of a BSI working group on safety of autonomous vehicles

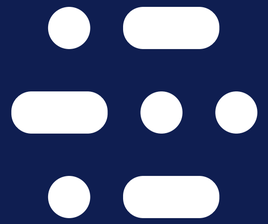
Session 7: FG-AI4AD - The way ahead

This final session will review the proposed direction of FG-AI4AD in light of the day’s presentations, discussions and debates.

Keynote

Bryn Balcombe, Autonomous Drivers Alliance (ADA) : Path Planning

FG-AI4AD's activities in the global standards, regulation & policy landscape



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