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HOME | [MECO'2020 CONFERENCE](#) | [CPS&IOT'2020 CONFERENCE](#) | [CPS&IOT SUMMER SCHOOL](#) | [ARCHIVE 2012-](#) | [PUBLICATIONS](#) |

You are here: [HOME](#) > [MECO'2020 Conference](#) > [Keynote speakers](#)

| |
|--|
| MECO home |
| Committees and Organisers |
| Keynote speakers |
| Special Workshops/Sessions |
| Submission |
| Registration |
| Programme |
| Place Venue Transport Accomodation |
| Managment |



Keynote speakers

Chair: Veljko Milutinovic, MECO Advanced Research Chair

Ralf Hertwich, NVIDIA, [An Artificial Intelligence Platform for Automated Vehicles](#)

Helen Karatza, Professor Emeritus, Editor-in-Chief of SIMPAT Journal of Elsevier, Department of Informatics, Aristotle University of Thessaloniki, Greece, [Cloud vs Fog Computing – Scheduling Real-Time Applications](#)

Erol Gelenbe, Fellow, IEEE, [Smart Bracelets for Remote Monitoring of Wearers' Physical and Affective State](#)

Naim Dahnoun, Bristol University UK, Pedagogy for Engineering and Digital Pedagogy

Ayhan Irfanoglu, Purdue University, USA, [Sense and Sensibility: Challenges in Structural Engineering](#)

Borko Furht, Florida Atlantic University, Boca Raton, Florida, USA, [In the Middle of the Patent War for the Next Generation of Video Coding Standard](#)

M.M. Dalkilic, Indiana University, Bloomington, IN, USA, [Using Data Analytics to Optimize Public Transportation on a College Campus](#)

Nenad Filipovic, University of Kragujevac, Serbia, [In-Silico clinical trials as a new paradim in medicine](#)

Naphtali David Rishé and Francisco Ortega, Florida International University, Miami, FL, USA, [Smart Bracelets for Remote Monitoring of Wearers' Physical and Affective State](#)

Nikolaos Voros, the Coordinator of SMART4ALL H2020, Machine Learning for Network Routing

Amela Ajanovic, TU Wien, Energy Economics Group, Vienna, Austria, [Prospects for electric vehicles and autonomous driving](#)

Kirill Krinkin, Head of Software Engineering and Computer Applications Department, Electrotechnical University "LETI", Russian Federation

Instructions:

[Keynote speaker template](#)

[Draft Agenda and Presentation Notices](#)

Prospects for Electric Vehicles and Autonomous Driving

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Abstract - Currently, the transport sector creates some of the major problems for society: increasing GHG emissions and local pollutions, as well as accidents. There are expectations that electric vehicles can solve some of the environmental problems. However, accidents due to individual human behavior still pose a significant threat. The core objective of this paper is to analyze possible joint solutions linking E-mobility with autonomous driving. The success of these alternative and innovative solutions are very dependent on their costs, environmental aspects, as well as their reliability and safety. Although, a combination of electric vehicles and autonomous driving could solve some of the problems in the transport sector, there is a still lack of knowledge, experience and broad acceptance posing some of the major barriers.

Keywords – passenger cars, emissions, costs, battery, vehicle to grid

References related to the talk:

- [1] Ajanovic A., Haas R. (2018). Electric vehicles: solution or new problem?. Environ Dev Sustain (2018). <https://doi.org/10.1007/s10668-018-0190-3>
- [2] Ajanovic A.: The future of electric vehicles: prospects and impediments. WIREs Energy Environment 2015. doi: 10.1002/wene.160, 2015
- [3] Ajanovic A., Haas R. (2018). On the long-term prospects of power-to-gas technologies. WIREs Energy Environ. 2018:e318. <https://doi.org/10.1002/wene.318>
- [4] Ajanovic A., Haas R.: Driving with the sun: Why environmentally benign Electric Vehicles must plug in at Renewables. Solar Energy 121 (2015) 169-180.
- [5] Ajanovic A., G. Jungmeier, M. Beermann, R.Haas, Driving on renewables – on the prospects of alternative fuels up to 2050 from an energetic point-of-view in EU countries, Journal of Energy Resources Technology Published by ASME, Journal of Energy Resources Technology 135(3), 031201 (Jun 03, 2013) (7 pages) doi:10.1115/1.4023919.

About the Speaker



Amela Ajanovic received her Ph.D. title in 2006 and defended her habilitation in 2016 at Technische Universität Wien. She is a senior researcher and lecturer at the Institute of Energy Systems and Electrical Drives at Technische Universität Wien. She is author of more than 50 papers in peer reviewed conference proceedings and international journals with more than 1000 citations. She supervised 15 successfully defended master theses. She is

a principal investigator of several national and international projects. Her current teaching and research focus is on alternative fuels and alternative automotive technologies, energy efficiency, energy policy, modeling and scenarios. She was program committee member of many international conferences. She is also on the editorial board of journals, (e.g. Economics of Energy & Environmental Policy, Int. Journal of Energy Production and Management). She edited two books and two special issues for peer-reviewed international journals (Energy Policy, and International Journal of Energy Technology and Policy). Since 2012 she is scientific coordinator of the Interdisciplinary Bilateral Czech-Austrian Winter and Summer School on “Energy Systems”.