

In case of technical questions during the conference, please contact: tba

Timezone (*Central Mexican Time*) , Middle European Time: -7h

Download PDF-Agenda

| Thursday, 18th of March 2021 | | |
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| 08:00-08:15 | Opening of the Conference <i>Edgar Ortiz Loyola</i> Head of the Department of Engineering Studies for Innovation, IBERO | Link to join the conference (tba) Watch on Facebook |
| 08:15-08:25 | Introduction of the ASCENT Project and Network <i>Kurt Steiner – Project Manager FHJ ASCENT</i> | FH JOANNEUM Institute of Automotive Engineering |
| 08:30 – 09:30 (incl. Q&A) | Key- Note: Introduction of Connected and Autonomous Vehicle Research and Development in Thailand <i>Dr. Witaya, Dr. Nuksit</i> Chulalongkorn University, Thailand | Click on the title to see the key-note speaker information! |
| 9:40 – 10:40 (incl. Q&A) | Key-Note: Evolution and Future Human Mobility <i>Dr. Hermann Knoflacher</i> University of Technology, Vienna | Click on the title to see the key-note speaker information! |
| 10:40-11:00 | <i>Virtual Coffee Break</i> | |
| Parallel Sessions Paper Presentations | | |
| | Track: FUTURE MOBILITY Chair: Universidad Iberoamericana (IBERO) Link to the session: | Track: ENGINEERING EDUCATION Chair: Tecnológico de Monterrey (ITESM) Link to the session: |

| Thursday, 18th of March 2021 | | |
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| 11:00-11:30 (30min incl. Q&A) | Session 1: An autonomously driving model vehicle (click for abstract) <i>Florian Diernberger, Fritz Patrick</i> Institute of Automotive Engineering, University of Applied Sciences JOANNEUM (FHJ) | Session A: Educating Future Engineers-Challenges in University-Education (click for abstract) <i>Jörg Niemann, Claudia Fussenecker, Martin Schlösser, Marius Schöning, Alexander Paul</i> Hochschule Düsseldorf (HSD) |
| 11:30-12:00 | Session 2: Urban mobility: emerging costs in transport selection <i>María de la Paz Moral, Gabriela Pesce</i> Dpto. de Ciencias de la Administración, Universidad Nacional del Sur (UNS) | Session B: Education and training of service engineers – A toolbox of methods for the digital business transformation <i>Jörg Niemann, Claudia Fussenecker, Martin Schlösser, Hochschule Düsseldorf (HSD)</i> |
| 12:00-12:30 | Session 3: Electric Powertrain System Design for Low Weight Urban Motorcycle Prototype <i>Bernardo Lessa Guerra, Fernando A.de Noronha C.P.,</i> Mechanical Engineering Department, Polytechnic S., Federal University of Rio de Janeiro (UFRJ) | Session C: Introduction to knowledge and design of car mechanical parts in the early stages of a mechanical engineering degree <i>Fuertes Laural, Gavino Sergio, Lopresti Laura, Speroni Lucas, Defranco Gabriel</i> Universidad de La Plata (UNLP) |
| 12:30-13:00 | Session 4: Sliding Mode Control of a Hybrid Battery-Supercapacitor Energy Management System <i>Ezequiel Orozco, Héctor Chiacchiarini</i> Dpto. de Ing. Eléctrica y de Computadoras, Universidad Nacional del Sur (UNS) | Session D: Students motivation using extracurricular activities <i>Marcelo Augusto L. Alves,</i> Escola Politécnica da USP, Brazil (USP) |
| 13:00 – 13:15 | Feedback to the 1st Conference day | Click here to complete the short survey! |



Friday 19th of
March 2021

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| 08:50 | Welcome | Link to join the conference (tba) |
| 09:00 – 09:45 | Key – Note: Climate-friendly lifestyles & mobility <i>Dr. Gerfried Jungmeier, Joanneum Research, Austria</i> | Click on the title to see the key-note speaker information! |
| 09:45 – 10:30 | Key – Note: Urban Living Labs – New Mobility Concepts <i>Oliver Lah, Urban Electric Mobility Initiatives, Germany</i> | Click on the title to see the key-note speaker information! |
| 10:30-10:45 | Virtual Coffee Break | |
| Parallel Sessions Paper Presentations | | |
| | Track: FUTURE MOBILITY Chair: Universidade de Sao Paulo (USP) Link to the session: | Track: SAE Competitons Chair: Universidad Nacional del Sur Link to the session: |
| 10:45-11:15 | Session 1: Comparison of Electric Drive and Combustion Engine under Consideration of Product Lifecycle Management (click for abstract) <i>Ilias El Hajjami, University of Applied Sciences Düsseldorf, Germany (HSD)</i> | Session A: Design, Fabrication and Project Workflow of LowCost Impact Attenuator for Formula SAE Cars (click for abstract) <i>João Victor da Cruz Almeida, Clara Roussenq Daibert, Matheus Belo de Lima, Marcus Vinicius F. Silva, Fernando A. de N.C.Pinto, Mechanical Engineering Department, Polytechnic School, Federal University of Rio de Janeiro (UFRJ)</i> |
| 11:15-11:45 | Session 2: Calculation of splashing Losses in an Spur Gearbox with SPH-Method <i>Ermin Hujdur, University of Applied Sciences JOANNEUM, Austria (FHJ)</i> | Session B: Analytical sizing of a heat exchanger for a FSAE combustion car <i>João Gabriel Barcelo dos Santos, Fernando A. de N.C.Pinto, Mechanical Engineering Department, Polytechnic School, Federal University of Rio de Janeiro (UFRJ)</i> |

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| 11:45-12:15 | Session 3: Method for Reducing Uncertainty in Obstacle Detection applied to Autonomous Vision-Based Navigation <i>Rogério Barbosa dos Reis, Mechanical Engineering Department, Polytechnic School, Federal University of Rio de Janeiro (UFRJ)</i> | Session C: A proof of concept system for the implementation of optimization path planning strategies in additive manufacturing <i>Sergio Alejandro Salinas-Saenz, Pedro Orta-Castañón, Horacio Ahuett-Garza, Tecnológico de Monterrey, Escuela de Ingeniería y Ciencias (ITESM)</i> |
| 12:15 -12:30 | Virtual Coffee Break | |
| 12:30 – 13:15 | Key – Note: Virtual reality and augmented reality techniques <i>Javier Posselt, Groupe Renault, France</i> | Click on the title to see the key-note speaker information! |
| 13:15: 14:00 | Key – Note : Status of Automotive industry in Mexico and its relationship with Industry 4.0 <i>Jose Zozaya, President of AMIA (Mexican Association of the Automotive Industry) Mexico</i> <i>Clelia Hernandez, Director of Nuevo León 4.0 Initiative, Mexico</i> | Click on the title to see the key-note speaker information! |
| 14:00– 14:15 | The 6 ASCENT Competence Centers (Video) | Click here to watch the Video! |
| 14:15– 14:30 | Feedback to the 2nd Conference day | Click here to complete the survey! |
| 14:30-14:45 | Closing Ceremony of the 2nd ASCENT Conference | Thank you for your participation! |



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