Bio Sketches of the Speakers

In alphabetical order

Javier Alonso-Mora is an Assistant Professor at the Delft University of Technology, Netherlands, in the Department of Cognitive Robotics (previously at the Delft Center for Systems and Control). Until October 2016 he was a Postdoctoral Associate at the Computer Science and Artificial Intelligence Lab CSAIL of MIT, working in the Distributed Robotics Lab. He received his Ph.D. (2014) and M.Sc. (2010) degrees in robotics from ETH Zurich, where he worked in the Autonomous Systems Lab, and for which he was awarded the Willi-Studer Prize. He holds a Diploma in Engineering (2010) and a Diploma in Mathematics (2008) from the Technical University of Barcelona. Until 2014 was also a member of Disney Research Zurich. He is the recipient of a NWO Veni grant from the Netherlands Organisation for Scientific Research (2017), a best video award at the IEEE/ACM HRI (2014), a nomination for best student paper award at DARS (2010), a postgraduate scholarship from the Swiss Government and silver medals in the Spanish Physics and Mathematics Olympiads.
To know more…

Kanok Boriboonsomsin holds an Assistant Research Engineer (research faculty) position at CE-CERT, University of California, Riverside. His research interests include the relationship of land use and transportation to energy and air quality, transportation planning, vehicle emissions modeling, traffic simulation, geographic information system (GIS) applications in transportation, and intelligent transportation system (ITS) technology. His current research focuses on developing innovative ITS applications that benefit the environment, improving the inventorying methods of on-road mobile emissions, evaluating strategies to reduce greenhouse gases from surface transportation, among others.
To know more…

Biagio Ciuffo is a Scientific Officer of the European Commission Joint Research Centre (JRC), where he leads different projects concerning the reduction of CO2 emissions from road transport and the effect of introducing autonomous vehicles. He received his Ph.D. degree in transportation engineering from the University of Napoli Federico II, Italy, in 2008. Then he held a three-year Post-Doctoral position at the JRC, working at the sustainability assessment of traffic and transport related measures and policies. He has published more than 50 papers in peer-reviewed journals and conference proceedings. He is associate editor for the IEEE Transactions on Intelligent Transportation Systems and acts as reviewer for several international journals. For his research activities on the calibration of traffic simulation models he was awarded with the 2012 Greenshields Prize and with the 2013 SimSub Committee Prize from the Transportation Research Board of the US National Academy of Science.

To know more…

Luigi Del Re is a Full Professor at the Institute for Design and Control of Mechatronic Systems at the JKU Linz, Austria. He obtained the MSEE at the ETH Zurich, was then project manager in South America and Italy and went back to his high school to get his PhD at the mechanical engineering faculty in automatic control. He was then research associate at the Institute of Automatic Control of that University, and left later to work in the Swatch Group, from where he came to Linz. His main interests concern nonlinear systems and applied control systems, in particular approximate methods, as well as identification. The main applications are in the field of engine and vehicle technology and biomedicine.

To know more…

Maria Laura Delle Monache is a research scientist in the team NeCS (Networked Controlled Systems) at Inria and in GIPSA-Lab (Department of Control) in Grenoble, France.

Her research interest is mainly related to the mathematical and engineering aspects of traffic flow. In particular, she is interested in mathematical modeling, analysis, numerical approximation and control of traffic flow applications. She especially focuses on macroscopic models and on developing efficient numerical methods for scalar conservation laws that can be used in practical applications.

To know more…

Tijs Donkers is an Assistant Professor in the Control Systems group of the Department of Electrical Engineering at Eindhoven University of Technology (TU/e), Netherlands. His current research focuses on developing control theory specifically for automotive applications, with an emphasis on the computational aspects of the control algorithms.
His recent research has led to using distributed optimization and (model predictive) control for (complete) vehicle energy management. Besides this, his research covers several aspects of modeling and control of batteries (such as optimal charging, cell balancing and state estimation) and combustion engines.
Besides these automotive applications, he is interested in the role of sampling in control and identification, with an emphasis on event-triggered and networked control systems.
To know more…

Nour-Eddin El Faouzi is a Professorial Research Fellow (Research Director) at IFSTTAR, France, Professor of Traffic Modeling and Data Analytics at ENTPE and at University of Lyon, France, and Adjunct Professor of at the Queensland University of Technology (QUT) in Australia. He also runs the European Society of Traffic Management and Control: NEARCTIS Virtual Center of Excellence (NEARCTIS VCE). His main research interests are: traffic modeling and data analytics, traffic prediction, data assimilation and data fusion, Intelligent Transportation Systems (ITS) and Connected vehicles/C-ITS.
To know more…

Lars Eriksson is a Full Professor in the Department of Electrical Engineering at Linköping University, Sweden. His main research interests are modeling, simulation and control of vehicle propulsion system, with a special interest in issues related to internal combustion engines and vehicle powertrains. He is involved in several research projects as researcher and as supervisor for PhD students. He is project leader for the CENIIT project Modeling and Control of Turbocharged Combustion Engines, and participates in the Swedish Center for Automotive Propulsion Simulation, CAPSim.
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Karl H. Johansson is Director of the Stockholm Strategic Research Area ICT The Next Generation and Professor at the School of Electrical Engineering and Computer Science, KTH Royal Institute of Technology, Sweden. He received MSc and PhD degrees from Lund University. He has held visiting positions at UC Berkeley, California Institute of Technology, Nanyang Technological University, Institute of Advanced Studies Hong Kong University of Science and Technology, and Norwegian University of Science and Technology. His research interests are in networked control systems, cyber-physical systems, and applications in transportation, energy, and automation systems. He is a member of the IEEE Control Systems Society Board of Governors and the European Control Association Council. He is past Chair of the IFAC Technical Committee on Networked Systems. He has been on the Editorial Boards of Automatica, IEEE Transactions on Automatic Control, and IET Control Theory and Applications. He is currently a Senior Editor of IEEE Transactions on Control of Network Systems and Associate Editor of European Journal of Control.
To know more…

Md Abdus Samad Kamal is an Associate Professor in the Division of Mechanical Science and Technology, Graduate School of Science and Technology, at Gunma University, Japan. His research area is Intelligent Transportation Systems, especially Driver Assistance Systems for safe and ecological transportations and traffic control system. His publications includes about 50 journal papers, conference papers and books. He also delivered 7 Keynote/invited talks in various symposium, conference and workshop. He is a founder member of KUET Excellence Foundation aimed to support meritorious and needy student of Khulna University of Engineering and Technology. He is the publication secretary of International Conference on Environmental Aspects of Bangladesh (ICEAB) and International Conference on Informatics, Electronics & Vision (ICIEV). He is also a member of IEEE, IEEJ, BENJ and SICE.
To know more…

Dominik Karbowski is a principal research engineer at Argonne's Center for Transportation Research. His research focuses on making cars, trucks, and the transportation network more energy efficient, through a combination of vehicle electrification, optimal control, connectivity and automation. He has been the principal investigator for a broad range of studies involving advanced powertrain optimization and energy management optimization for electric, hybrid-electric and plug-in hybrid vehicles. He has extensive experience in automotive systems modeling and simulation, control theory, energy management, powertrain design and optimization, and stochastic characterization of real-world driving.
To know more…

Andres Ladino received the Ph.D. Degree from the Université Grenoble Alpes, Grenoble, France, in 2018. Currently, he is a Post-Doctoral researcher in Automatic Control at IFSTTAR, within the LICIT team, working on control techniques for connected and automated vehicles, traffic flow models and traffic simulation algorithms for truck platoon strategies. His research interests include Networked Control Systems, Cyberphysical Systems, Intelligent Transportation Systems and Artificial Intelligence.
To know more…

Michail Makridis received the Ph.D. degree in image processing and machine intelligence from the Democritus University of Thrace, Greece. Since 2012, he has been with the European Commission Joint Research Centre as a Researcher and a Science and Policy Officer. His interests are in intelligent transportation systems, simulation of vehicle dynamics and driver behavior, energy demand and emissions, image segmentation and classification, natural language processing, and sequential pattern mining. He is a Reviewer in international journals and author of various publications in the fields of traffic modeling and simulation, image processing, and machine learning.
To know more…

Julien Monteil is a research scientist at IBM Research, Dublin, Ireland. He received the M.Sc. Degrees from ENTPE (Ecole Nationale des Travaux Publics de l'Etat) and INSA (Institut National des Sciences Appliquées), Lyon, France, in 2010, and the Ph.D. Degree from the University of Lyon, France, in 2013. He was with Trinity College Dublin, Ireland, as a research fellow. He was also a data engineer at the Ministry of Transport, Paris, France, and a visiting student researcher at Queensland University of Technology, Brisbane, Australia, at the Ecole Polytechnique Fédérale de Lausanne, Switzerland, at the University of California, Berkeley, USA, and at the University of Tokyo, Japan. He was awarded the 2014 Abertis National Research Prize in France and the 2014 Abertis International Research Prize for best doctoral thesis in transport engineering.
To know more…

Gábor Orosz is an Associate Professor in the Mechanical Engineering Department, at University of Michigan, Ann Arbor. He received the M.Sc. degree in engineering physics from the Budapest University of Technology, Budapest, Hungary, in 2002, and the Ph.D. degree in engineering mathematics from the University of Bristol, Bristol, U.K., in 2006. He held postdoctoral positions at the University of Exeter, Exeter, U.K., and the University of California at Santa Barbara, Santa Barbara, CA, USA. His current research interests include nonlinear dynamics and control, time delay systems, and networks and complex systems with applications on connected and automated vehicles and biological networks.

To know more…

Hesham Rakha is the Samuel Reynolds Pritchard Professor of Engineering in the Charles E. Via, Jr. Department of Civil and Environmental Engineering, as well as a Courtesy Professor in the Bradley Department of Electrical and Computer Engineering. He directs the Center for Sustainable Mobility (CSM) at the Virginia Tech Transportation Institute. His research focuses on large-scale transportation system optimization, modeling and assessment. He works on optimizing transportation system operations, including vehicle routing, developing various network and traffic signal control algorithms, developing freeway control strategies (speed harmonization and ramp metering), and optimizing vehicle motion (lateral and longitudinal control of connected automated vehicles (CAVs)) to reduce their energy consumption while ensuring their safety. He has developed various vehicle energy and fuel consumption models that are used world-wide to assess the energy and environmental impacts of Intelligent Transportation System (ITS) applications and emerging Connected Automated Vehicle (CAV) systems. The models include the VT-Micro, VT-Meso, the Virginia Tech Comprehensive Fuel consumption Model (VT-CPFM), the VT-CPEM, and the VT-CPHEM models.

Prof. Rakha is a Professional Engineer in Ontario and a member of the Institute of Transportation Engineers (ITE), the American Society of Civil Engineers (ASCE), the Institute of Electrical and Electronics Engineers (IEEE), the Society of Automotive Engineers (SAE), the Institute for Operations Research and the Management Sciences (INFORMS), and the Transportation Research Board (TRB). In addition, he is on the Editorial Board of the Transportation Letters: The International Journal of Transportation Research, the IET Intelligent Transport Systems Journal, and the International Journal of Transportation Science and Technology. In addition, he is an Editor for Sensors (the Intelligent Sensors Section), an Associate Editor for the IEEE Transactions of Intelligent Transportation Systems, the Journal of Intelligent Transportation Systems: Technology, Planning and Operations and an Academic Editor for the Journal of Advanced Transportation.

To know more…

Marco Rinaldi is a Post-Doctoral researcher at the Mobilab group of the University of Luxembourg since 2016. After obtaining his B.Sc. in ITC Engineering and M.Sc. in Automation and Control Engineering from the University of Pavia (IT), he pursued a PhD in Mechanical Engineering at the Katholieke Universiteit Leuven (KU Leuven), which he obtained in March 2016. His research interests include development and application of advanced control theory to complex flow networks, with a specific focus on both private and public transportation networks, as well as developing solutions and algorithms for the Network Sensor Location Problem (NSLP).
To know more…

Simona Sacone is an Associate Professor with the Department of Informatics, Bioengineering, Robotics and Systems Engineering, University of Genova, Italy. She teaches courses on control systems theory, identification and estimation techniques, and optimization and control of logistic systems. She is the Coordinator of the Ph.D. course on control systems engineering. She has authored and co-authored over 150 papers published on international journals, international books, and international conference proceedings. She is a member of the IFAC Technical Committees 7.4 on Transportation Systems and 1.3 on Discrete Event and Hybrid Systems. She is the Chair of the Technical Committee on Logistics of the IEEE Intelligent Transportation Systems Society. She currently serves as an Associate Editor for the IEEE Transactions on Intelligent Transportation Systems and for the IEEE Control Systems Magazine. She has acted as an Associate Editor in the IEEE International Conference on Intelligent Transportation Systems, in the IEEE International Conference on Robotics and Automation in the IFAC Symposium on Control in Transportation Systems, and in the IFAC/IEEE Workshop on Discrete Event Systems.
To know more…

Silvia Siri is an Associate Professor with the Department of Informatics, Bioengineering, Robotics and Systems Engineering, University of Genova, Italy. Her research interests deal with modelling, optimization and control of production and transportation systems. An important research area regards highway traffic systems, for which she has been studying both the modelling aspects and some innovative control schemes, mainly based on MPC techniques. As regards transportation systems, her research studies are devoted to the definition of planning algorithms for intermodal nodes (basically seaport container terminals) and logistic networks. She has co-authored over 100 papers in international journals, chapters, and conference proceedings. She is a member of the IFAC Technical Committees TC 7.4 on Transportation systems and TC 1.3 on Discrete Event and Hybrid Systems. She has taken part in the International Program Committee of many international conferences on transportation systems and control theory. Since 2016, she has been an Associate Editor of the IEEE Transactions on Intelligent Transportation Systems.
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Martin Treiber is a Senior Research Scientist at the Institute for Transport and Economics, Dresden University of Technology, Germany. His research interests are related to traffic flow, intelligent traffic, adaptive cruise control, autonomous driving, trajectories, and eco-routing. He authored more than 100 scientific articles, including two textbooks on Traffic Flow Dynamics. He also holds a position as Associate Editor at Transportation Research Part B, and Transportmetrica A.

To know more…

Ardalan Vahidi is a Professor of Mechanical Engineering at Clemson University, South Carolina. He received his Ph.D. in mechanical engineering from the University of Michigan, Ann Arbor, in 2005, M.Sc. in transportation safety from George Washington University, Washington, DC, in 2002, and B.S. and M.Sc. from Sharif University, Tehran in 1996 and 1998, respectively. In 2012–2013 he was a Visiting Scholar at the University of California, Berkeley. He has also held scientific visiting positions at BMW Technology Office in California, and at IFP Energies nouvelles, in France. His research is at the intersection of energy, vehicular systems, and automatic control. His recent publications span topics in alternative vehicle powertrains, intelligent transportation systems, and connected and autonomous vehicle technologies.

To know more…

Francesco Viti is Associate Professor at the University of Luxembourg since 2012. He obtained his PhD at the TU Delft and then he was associate researcher at KU Leuven, both top universities in the transport and mobility field. He is the head of the MobiLab Transport Research Group within the Engineering Unit. His research activities range from mobility analysis, development of decision support systems for travellers and for transport operators, Intelligent Transport Systems and network modelling and control.

Having a strong interdisciplinary vision, combining engineering, computer science and social sciences, his team has well-established collaborations with different groups within the University of Luxembourg, as well as with international academic and industrial partners.

He is author of about 60 publications indexed by Scopus, and more than 150 conference papers. He is reviewer of most of the top journals in the transportation domain, and is associate editor of Journal of ITS and Transportation Research Part C. Since 2008 he acts as External Expert for the European Commission.

To know more…

Meng Wang is assistant professor at the Department of Transport & Planning, and holds guest-researcher positions at the Department of BioMechanical Engineering, TU Delft, Netherlands, and at the Research Institute of Highway (RIOH) of the Ministry of Transport, China.
Wang obtained his MSc degree at the RIOH and his PhD with distinction at Delft University of Technology. Over the past years, he focused on driving strategy design for connected and automated vehicles and impact assessment of such systems on traffic flow characteristics via both analytical approach and simulation.
To know more…

Bin Yang is a Professor in Department of Computer Science at Aalborg University, Denmark. He was at Aarhus University, Denmark, during 2011–2014 and at Max-Planck-Institut für Informatik, Germany, during 2010–2011. He received the Ph.D. degree in computer science from Fudan University in 2010. His research interests include data management and data analytics. Bin received the Sapere Aude Starting Grant from the Independent Research Fund Denmark in 2018, the Distinguished Scholar award in 2018, given by the Technical Faculty of IT and Design, Aalborg University, the best paper award at MDM 2013, and the best demo award at MDM 2013. He is an IEEE senior member. He was a PC co-chair of IEEE MDM 2018. He has served on program committees and as an invited reviewer for several international conferences and journals, including ICDE, IJCAI, TKDE, The VLDB Journal, and ACM Computing Surveys.
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