PERSONAL INFORMATION

Sven Maerivoet

TRANSPORT & MOBILITY LEUVEN

Diestsesteenweg 71, 3010 Leuven, Belgium

sven.maerivoet@tmleuven.be

www.tmleuven.be

Sex Male | Date of birth 11/4/1976 | Nationality Belgian

POSITION

Sven Maerivoet holds a PhD degree in traffic engineering. His expertise mainly lies in transportation planning models, traffic flow theory, giving courses and lectures, numerical and statistical analysis of various big data, travel time loss functions, multi-agent systems, sustainability effects in cities, external costs of road congestion, the related parking problems and innovative technological solutions, (cooperative) intelligent transportation systems (C-ITS), road user charging, connected, cooperative and automated vehicles, Open Data, Mobility-as-a-Service, Smart Cities, GPS-data analyses, GDPR and privacy aspects, and one of the creators of Telraam. He was coordinator of the international nuMIDAS Horizon 2020 project, and regularly acts as reviewer for the European calls. He is also an active member of several working groups in the ITS Belgium organisation, member of its Board of Directors, and former chair of the Belgian MaaS Alliance, former member of the advisory council of the Flemish Institute for Mobility (VIM). He is a regular reviewer for various scientific journals and conferences. Finally, he supports TML as head of communications.

WORK EXPERIENCE

2018 – present

Expert evaluator European Commission

Horizon 2020 / Horizon Europe / CEF proposals

- Work Programme 2023-2024 (Climate, Energy, and Mobility)
- Work programme 2022 (Safe, Resilient Transport and Smart Mobility services)
- Work programme 2021 (CEF Transport MAP Road)
- Work programme 2018-2020 (Smart, green, and integrated transport)
- Work programme 2018-2020 (Digitising and transforming European industry and services: Automated Road Transport)

2006 – present

Senior researcher / consultant – data scientist – communication – DPO

Transport & Mobility Leuven

- Road traffic flow modelling
- Numerical data analyses and machine learning techniques
- Time series modelling
- Statistical analyses
- Software development
- Transport planning
- (Cooperative) Intelligent transportation systems (C-ITS)
- Open / Big data
- Connected, cooperative, and automated vehicles (CCAM)
- Mobility-as-a-Service (MaaS)
- Privacy-related aspects of data sharing / GDPR
- Enhanced traffic management
- Telraam.net

2001 - 2006

Research assistant

KU Leuven, Department of Electrical Engineering ESAT-SCD (SISTA), Belgium

- Doctoral researcher

1998 – 2001

IT Management and Support, Software Developer

University of Antwerp (UA) / Library Campus Middelheim, Belgium

- First-line help

- Network management and server deployment
- Java prototype development for the "Open Virtuele Meubel Markt" (OVMM)

EDUCATION AND TRAINING

September 2001 – June 2006

PhD in Engineering

KU Leuven, Belgium

- Traffic flow theory and mathematical modelling of traffic on motorways
- Exploratory data analysis, time series analysis, and travel time estimation
- Integrated dynamic traffic assignment

September 1996 – June 2001

Master of Computer Science

Universitaire Instelling Antwerpen (UIA), Belgium

PERSONAL SKILLS

Mother tongue: Dutch

Other languages

	Understanding		Speaking		Writing
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
French	C1	C1	B2	B2	C1
Greek (Modern Greek)	B1	B1	B1	B1	B1

Common European Framework of Reference for Languages:
A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user

Communication skills

- Working in teams/groups, as well as independent; good communicative skills
- Giving dynamically inspiring lectures (multiple silver medals) and creatively writing accessible texts
- Giving interviews to the press (written, spoken, live)
- Moderating sessions, presentations, and debates
- Good and memorable public speaker (dynamic presentations, Lightning Talks, …)
- Well-developed natural feeling for language
- Core competences: cooperating, inspiring, taking responsability, meeting
- Additional competences: gathering information, use creativity, pedagogical insight, handling consequently, developing vision, and critical view

Organisational / managerial skills

- Always ready to assist others; eager to listen and learn from others
- Coordination and administration of people, projects, and budgets (10+ companies, 20+ people, 2 mio euro)
- Development of strategic (company) goals
- Solving problems through abstraction and insight
- Fluidly developing social contacts and interactions with others
- Flexible deployment (incl. technical support)

Digital competence

Programming languages / traffic modelling:

- Visual BASIC (VBA and VB.NET), Assembler (Intel, SRC), (Turbo) Pascal, Delphi, C, C++, C#, Oberon, Modula-2, Fortran, Java, J#, .NET, Python, (X)HTML, XML, CSS(2), JSP, DHTML, UML, JavaScript, Java Servlets, PHP, Python, UNIX/Linux scripting, Android, Processing, Mathematica, MATLAB, Octave, GNUPlot, R, SPlus, GIS environments (ArcGIS, QGis), ray tracing, OmniTRANS, Paramics, VISSIM, SUMO, CUDA, OpenGL, OpenCL, Machine Learning, Kaggle

Databases:

- (My)SQL/PostgreSQL, Redis DB, Cassandra DB, CQL, Neo4J, Fauna, NoSQL, MongoDB, Apache Lucene

Software development:

- Microsoft Visual Studio .NET, Eclipse, NetBeans, Maven, Subversion, Git, Mantis, Mylyn
- Microsoft Office / LaTeX / CorelDRAW / XFig / Dia / PageMaker / Open-, Star- & LibreOffice: Excellently skilled

Operating systems:

- MS-DOS, FreeDOS, Windows 95/98/NT/2000/XP/Vista/7/8/10/11, Native Oberon, UNIX, Linux, TempleOS, experience with complex boot loaders, network management under Linux and Windows 95/98/NT/2000/XP/Vista/7/8/10/11, AWS, EC2, S3

Software developed:

- **Partition Picker**: a hard disk low-level partition and sector editor (Pascal)
- **Mitrasim 2000**: a complete microscopic road traffic simulator (Java)
- **SvenGL Ray Tracing**: an OpenGL-based ray tracer (C++)
- **SM TCA+**: microscopic traffic simulators based on cellular automata (Java)
- **SMTools**: a template framework for quick GUI-based application development (Java)
- **Maerivoet.org**: a template framework for website development (PHP)
- **FLEXSYS Intersection Converter**: automatic conversion of a road network (Java)
- **Validation of Traffic Detector Measurements & Clusteranalysis**: framework for testing and clusteranalysis (MATLAB)
- **Analysis of Loop Detectors**: framework for extraction and processing of traffic measurements stemming from loop detectors on motorways (MATLAB)
- **User Performance Analyser**: analysis software for evaluating smart mobility changes in user behaviour due to road user charging (Java)
- **VIM Project evaluation tool**: tool for the evaluation of VIM projects based on vehicle loss hours in light of strategic goals (Excel)
- **Fraxion**: multi-threaded tool for the calculation of Mandelbrot, Julia, Newton/Raphson, and Markus/Lyapunov fractals in the complex plane (Java)
- **SeeYa**: multidimensional cellular automata (Java)
- **Arduino C++ / Processing / Raspberry Pi / Python**: various sketches
- **TraceletEngine**: analysis software to measure the behavioural impact of C-ITS via GPS traces (Java)
- **GPSAnalysis**: analysis software for truck on-board unit (OBU) data (Java)

Extra courses:

- Networking, GIS, communication, advanced Excel, creative writing (also taught), writing business English, mediatraining, MBTI, stress management, Modern Data Analytics with Python, etc.

Other competences

- Maker (micro-electronics, do-it-yourself, woodcrafting)
- DJ, synthesisers, piano aspirant

Driving licence

- B

ADDITIONAL INFORMATION

Publications

PhD dissertation:

- Maerivoet Sven, Modelling Traffic on Motorways: State-of-the-Art, Numerical Data Analysis, and Integrated Dynamic Traffic Assignment, Department Electrical Engineering ESAT-SCD (SISTA), Faculty of Engineering, KU Leuven, June 2006

Master's thesis:

- Maerivoet Sven, **The use of microscopic traffic simulation in a study on the congestion problems on the Antwerp Ring road**, Department of Mathematics and Computer Science, Faculty of Exact Sciences, Universitaire Instelling Antwerpen, June 2001

Publications in journals (h-index 11, 12 citations/ publication, 53 citations/year, Erdös nr. 4):

- Maerivoet Sven, **Sturen met parkeerbeleid in Vlaanderen**, NM Magazine, nr. 1, 2024
- Maerivoet Sven, **Wat vindt de weggebruiker van C-ITS?**, NM Magazine, nr. 3, pages 24-25, November 2023
- Maerivoet Sven, **Slimme mobiliteit in Vlaanderen**, in NM Magazine, nr. 1, page 16, May 2023
- Maerivoet Sven, **C-ITS buiten de landsgrenzen**, in NM Magazine, nr. 3, page 23, December 2021
- Malta Menno and Maerivoet Sven, **Randvoorwaarden en gedeelde voorzieningen voor C-ITS**, in NM Magazine, nr. 3, pages 26-27, December 2021
- Maerivoet Sven and Ons Bart, **ConACon: management van zelfrijdende voertuigen voor meer verkeersveiligheid**, in Verkeersspecialist, nr. 264, pages 23-23, March 2020
- Maerivoet Sven, **Verkeersmanagement bij een 'transition of control'**, in NM Magazine, nr. 2, pages 30-31, October 2019
- Maerivoet Sven, Himpe Willem, Florizoone Wouter, **Telraam als efficiënt instrument voor verkeersmetingen**, in NM Magazine, nr. 1, pages 20-21, April 2019
- Florizoone Wouter et al., **Telraam: microcomputer registreert verkeer voor de deur**, in Verkeersspecialist, nr. 253, pages 4-6, February 2019
- Maerivoet Sven, **Mixing It Up: The future of CAVs and the mixed vehicle fleet**, in The Signal, American Traffic Safety Services Association, pages 16-17, January-February 2019
- Maerivoet Sven, **Waar Werken Informatici?**, Universiteit Antwerpen, pages 20-21, 2018
- Akkermans L., Carlier K., Maerivoet S., **A Study on Co-modality and Eco-driving Mobility**, in Science, Society and New Technologies Series, Research for Innovative Transports Set, Volume 1, Energy and Environment, ISTE & Wiley, eds. Michel André and Zissis Samaras, chapter 19, pages 20-22, June 2016
- Maerivoet Sven, **De (r)evolutie van de routeplanner**, NM Magazine, nr. 2, pages 20-22, 19 may 2016
- Maerivoet Sven, Column: **Interessante tijden!**, in NM Magazine, nr. 3, page 31, 27 July 2015
- Van Moerkerke Bart and Maerivoet Sven, **Een modal shift vraagt eerst een mental shift**, in Verkeersspecialist, nr. 216, pages 10-13, May 2015
- Maerivoet Sven, Trajectcontrole E40 Brussel-Gent verbetert verkeersveiligheid, in NM Magazine, nr. 2, page 7, April 2015
- Depla Tom and Maerivoet Sven, **Trajectcontrole zorgt voor stabielere verkeersstroom**, in Verkeersspecialist, nr. 214, page 3, March 2015
- Maerivoet Sven, **MODUM: Proefproject dynamische en groene routeplanning**, NM Magazine, nr. 1, pages 28-29, January 2015
- Maerivoet Sven, **Slimme mobiliteit in de Proeftuin Leuven**, NM Magazine, vol. 8, nr. 3, pages 30-33, September 2013
- Maerivoet Sven, **Wiskundige modellen in het verkeer**, Karakter (Tijdschrift van Wetenschap), nr. 43, pages 22-24, September 2013
- Maerivoet Sven et al., **A Field Trial on Smart Mobility**, in Procedia Social and Behavioral Sciences (15th Meeting of the EURO Working Group on Transportation), nr. 54, pages 926—935, 2012
- Steenberghen Thérèse, Dieussaert Karel, Maerivoet Sven, and Spitaels Karel, **SUSTAPARK: An agent-based model for simulating parking search**, in Spatial Issue of URISA Journal Urban and Regional Modeling versus Planning Practice: Bridging the Gap, vol. 24, nr. 1, pages 63—76, 2012
- Maerivoet Sven, **Hulp bij uitstippelen duurzaam parkeerbeleid**, in Verkeersspecialist, nr. 143, pages 11—13, December 2007
- Maerivoet Sven and De Moor Bart, **Cellular Automata Models of Road Traffic**, in Physics Reports (impact factor 23), vol. 419, nr. 1, pages 1—64, November 2005, 706 citations
- Maerivoet Sven and De Moor Bart, **Non-concave fundamental diagrams and phase transitions in a stochastic traffic cellular automaton**, in The European Physical Journal B – Condensed Matter Physics (impact factor 1.7), vol. 42, nr. 1, pages 131—140, November 2004

Publications in conference proceedings:

- Maerivoet S., Ons B., Breemersch T., Vlassenroot S., Vankaauwen G., **Policy Support Based on Quantitative Analysis of HGV's On-Board Unit Data**, 30th ITS World Congress, Dubai, UAE, 16-20 September 2024
- Maerivoet S., Boerma S., Overvoorde R., Mylonas C., Tzanis D., Vega C., Dani E., Hyksova M., Pereira A.M., Mazzeschi V., en Paruscio V, **The New Mobility Data and Solutions Toolkit (nuMIDAS)**, 30th ITS World Congress, Dubai, UAE, 16-20 September 2024
- Vreeswijk J., Khastgir S., Shladover S., Kulmala R., Alkim T., Maerivoet S., Kawashima H., **Decision-making process for (National) Road Authorities to invest in information support for Automated Driving Systems**, TRA 2024, Dublin, Ierland, 15-18 april 2024
- Maerivoet S., Ons B., Vlassenroot V., and Vankaauwen G., **Integrated Evaluation of and Vision on Truck Parking in Flanders, Belgium**, TRA 2024, Dublin, Ireland, 15-18 April 2024
- Maerivoet S., Boerma S., Overvoorde R., Mylonas C., Tzanis D., Vega C., Dani E., Hyksova M., Pereira A.M., Mazzeschi V., en Paruscio V, **The New Mobility Data and Solutions Toolkit (nuMIDAS)**, TRA 2024, Dublin, Ireland, 15-18 April 2024
- Mehrabani B.B., Sgambi L., Maerivoet S., and Snelder M., **Development, Calibration, and Validation of a Large-Scale Traffic Simulation Model: Belgium Road Network**, BIVEC-GIBET Transport Research Day, Leuven, Belgium, 1-2 June 2023
- Maerivoet S., Boerma S., Overvoorde R., Mylonas C., Tzanis D., Vega C., Dani E., Hyksova M., Pereira A.M., Mazzeschi V., and Paruscio V, **The New Mobility Data and Solutions Toolkit (nuMIDAS)**, 15th ITS European Congress, Lisbon, Portugal, 22-24 May 2023
- Maerivoet S., Ons B., Vlassenroot V., and Vankaauwen G., **Integrated Evaluation of and Vision on Truck Parking in Flanders, Belgium**, 15th ITS European Congress, Lisbon, Portugal, 22-24 May 2023
- Kulmala R., Kotilainen I., Shladover S.E., and Maerivoet S., **Provision of Operational Design Domain (ODD) awareness for Automated Driving Systems (ADS) and road operators**, 15th ITS European Congress, Lisbon, Portugal, 22-24 May 2023
- Kotilainen I., Kulmala R., Kawashima H., Maerivoet S., Khastgir S., Schladover S., Vreeswijk J., Alkim T., and Wijbenga A., **Infrastructure Connectivity to Improve Automated Driving Safety and Information Quality**, 27th Enhanced Safety of Vehicles (ESV) Conference, Yokohaman, Japan, 3-6 April 2023
- Boerma S., Overvoorde R., Paruscio V., Mazzeschi V., Covelli C., Mylonas C., Tzanis D., et al., **nuMIDAS: Addressing new mobility policy making challenges**, 9th Transport Research Arena TRA Lisbon 2022, Portugal, 14-17 November 2022
- Mylonas C., Stavara M., Tzanis D., Mitsakis E., et al., **Fleet optimization in shared mobility services: Theoretical and findings and future steps**, 9th Transport Research Arena TRA Lisbon 2022, Portugal, 14-17 November 2022
- Khastgira S., Vreeswijk J., Shladover S., Kulmala R., Wijbenga W., Maerivoet S., Kotilainen I., Kawashima H., Jennings P., **Traffic management for Connected and Automated Driving**, 9th Transport Research Arena TRA Lisbon 2022, Portugal, 14-17 November 2022
- Maerivoet S., Wijbenga A., Mintsis E., Zhang X., Correa A., Alms R., **Enhanced traffic management procedures of connected and autonomous vehicles in transition areas**, 9th Transport Research Arena TRA Lisbon 2022, Portugal, 14-17 November 2022
- Ons B., Maerivoet S., Assessment of Proactive Gap- and Speed-Control Traffic Management Reducing Collision Risks, 14th ITS European Congress, Toulouse, France, 30 May-1 June 2022
- Maerivoet S., Boerma S., Mylonas C., Shchuryk O., Pribyl O., **The New Mobility Data and Solutions Toolkit (nuMIDAS)**, 14th ITS European Congress, Toulouse, France, 30 May-1 June 2022
- Maerivoet S., Ons. B., **Impact Assessment and User Acceptance of Cooperative ITS for Trucks**, 27th ITS World Congress, Hamburg, Germany, 11-15 October 2021
- Vlassenroot S., Maerivoet S. et al. **Technical Evaluation of C-ITS Services in Flanders**, 27th ITS World Congress, Hamburg, Germany, 11-15 October 2021
- Wijbenga A., Vreeswijk J., et al., **Stakeholder Considerations of Automated Driving in Infrastructure-Assisted Transition Areas**, 27th ITS World Congress, Hamburg, Germany, 11-15 October 2021
- Maerivoet S. et al., **Enhanced Traffic Management Procedures of Connected and Autonomous Vehicles in Transition Areas**, 14th ITS European Congress, online, Lisbon, Portugal, 9-10 November 2020
- Maerivoet S. Ons B., Vlassenroot S., **Impact Evaluation and User Acceptance of C-ITS IVI Services**, 14th ITS European Congress, online, Lisbon, Portugal, 9-10 November 2020
- Maerivoet S. et al., **Enhanced Traffic Management Procedures of Connected and Autonomous Vehicles in Transition Areas**, Forum on Integrated and Sustainable Transportation System (FISTS), online, Delft, The Netherlands, 3-5 November 2020

- Alms R. et al., Traffic Management for Connected and Autonomous Vehicles on Urban Corridors: Distributing Take-Over Requests and Assigning Safe Spots, 3rd Symposium on Management of Future Motorway and Urban Traffic Systems, Luxembourg, 6-8 July 2020
- Maerivoet S. et al., **Enhanced Traffic Management Procedures of Connected and Autonomous Vehicles in Transition Areas**, Transportation Research Arena (TRA2020) (conference cancelled), Helsinki, Finland, April 2020
- Wijbenga A. et al., **Cooperative Automated Driving at Transition Areas**, Transportation Research Arena (TRA2020) (conference cancelled), Helsinki, Finland, April 2020
- Wijbenga A. et al., **Infrastructure-Assisted Automated Driving in Transition Areas**, International Event on Driving Science, Eindhoven, The Netherlands, December 2019
- Mintsis E. et al., **Management of Connected and Automated Vehicle Disengagements in the Vicinity of Work Zones**, 9th International Congress on Transportation Research (ICTR 2019), Athens, Greece, October 2019
- Maerivoet S. et al., **Enhanced Traffic Management Procedures in Transition Areas**, 13th ITS European Congress, Eindhoven, The Netherlands, June 2019
- Maerivoet S., **Trip and tourist tour planning with integrated fare and ticketing management**, 25th ITS World Congress, Copenhagen, Denmark, September 2018
- Wijbenga A., Vreeswijk J., Schindler J., Mintsis E., Rondinone M., Sepulcre Ribes M., Maerivoet S., **Assessment of automated driving to design infrastructure-assisted driving at transition areas**, 25th ITS World Congress, Copenhagen, Denmark, September 2018
- Lu M., Blokpoel R., Schindler J., Maerivoet S., Mintsis E., **ICT Infrastructure for Cooperative, Connected and Automated Transport in Transition Areas**, Transportation Research Arena (TRA2018), Paris, France, April 2018
- Maerivoet S. and Akkermans L., **Operational Safety for Autonomous Vehicles**, 12th ITS European Congress, Strasbourg, France, June 2017
- Delhaye E., De Ceuster G., Vanhove F., and Maerivoet S., **Internalisation of External Costs of Transport in Flanders**, Proceedings of the BIVEC-GIBET Transport Research Days 2017: Towards an Autonomous and Interconnected Transport Future, Eds. Mario Cools and Sabine Limbourg, Pages 224-239, Liège, Belgium, 18-19 May 2017
- Maerivoet S., **(R)evolutions in route planners**, 11th ITS European Congress, Glasgow, Scotland, May 2016
- Maerivoet Sven, Akkermans Lars, Carlier Kristof, and Desaegher Muriel, **A study on co-modality and eco-driving mobility**, Transport Research Arena (TRA2014), Paris, France, April 2014
- Maerivoet Sven, Delhaye Eef, and Maertens Friedl, **A behavioural experiment on intelligent road user charging**, Transport Research Arena (TRA2014), Paris, France, April 2014
- Maerivoet Sven, **Models for optimising dynamic urban mobility (MODUM)**, Transport Research Arena (TRA2014), Paris, France, April 2014
- Maerivoet Sven et al., **A Field Trial on Smart Mobility**, 19th ITS World Congress, Vienna, Austria, October 2012
- Maerivoet Sven, Breemersch Tim, and Van Damme Olivier, **A study into the economic, environmental and traffic impacts of a Sunday driving ban for HGVs in the Walloon Region**, Vervoerslogistieke Werkdagen, Antwerp, Belgium, December 2011
- Akkermans Lars, De Ceuster Griet, and Maerivoet Sven, **Impact EU ITS directive: Sanity check on investments in the ITS sector**, 11th ITS Congress, ITS Belgium, October 2011
- Delhaye Eef, Maerivoet Sven, and De Ceuster Griet, **Internalisation of external costs of transport in Flanders**, BIVEC/GIBET Transport Research Day, May 2011
- Van Damme Olivier, Akkermans Lars, Breemersch Tim, and Maerivoet Sven, **A study into the economic, environmental and traffic impacts of a Sunday driving ban for HGVs in the Walloon Region**, BIVEC/GIBET Transport Research Day, May 2011
- Maerivoet Sven, **Een kerel met een verkwikkend charisma**, in “Met TNO naar een Robuust Wegennetwerk: Afscheid van Ben Immers”, Delft, The Netherlands, October 2009
- Spitaels Karel and Maerivoet Sven, **SUSTAPARK: Duurzaam Parkeerbeleid**, in Proceedings of the XXIth Belgian Road Congress, Ghent, September 2009
- Dieussaert Karel, Aerts Koen, Steenberghen Thérèse, Maerivoet Sven, and Spitaels Karel, **SUSTAPARK: An Agent-based Model for Simulating Parking Search**, in Proceedings of the 12th AGILE International Conference on Geographic Information Science, Leibnitz Universität, Hannover, Germany, June 2009
- Spitaels Karel and Maerivoet Sven, **An Empirical Agent-based Model of Parking Behaviour**, in Proceedings of the Kumho-Nectar Conference, Tinbergen Institute, Amsterdam, The Netherlands, June 2008
- Maerivoet Sven and Logghe Steven, **Validation of Travel Times based on Cellular Floating Vehicle Data**, in Proceedings of the 6th European Congress and Exhibition on Intelligent Transport Systems and Services, Aalborg, Denmark, June 2007

- Maerivoet Sven, **Evalueren aan de hand van papers**, Duo/Icto Zomerklassen, KU Leuven, Belgium, September 2004
- Maerivoet Sven, **Sustainability Effects of Traffic Management Systems**, The Transport Science and Technology Conference (TransTec), Athens, Greece, September 2004
- Maerivoet Sven and De Moor Bart, **Development of an improved traffic cellular automaton model for traffic flows on a highway road network**, in Proceedings of the 10th World Congress and Exhibition of Intelligent Transport Systems and Services (ITSS03), Madrid, Spain, November 2003
- Maerivoet Sven, Logghe Steven, Immers Ben, and De Moor Bart, **A comparison of a cellular automaton and a macroscopic model**, in Proceedings of the Workshop on Traffic and Granular Flow '03, Technische Universiteit Delft, The Netherlands, October 2003
- Maerivoet Sven, **Development of a Traffic Cellular Automaton Model for Highway Traffic**, 22nd Benelux Meeting on Systems and Control, Louvain-la-Neuve, Belgium, March 2003
- Maerivoet Sven, **Modeling, Simulation and Control of Traffic Flows on a Highway Network**, Faculty of Engineering PhD Symposium, KU Leuven, Leuven, Belgium, Winner of the "Best Poster Award", December 2002
- Maerivoet Sven and Bellemans Tom, **A Case Study on Traffic Flow Modelling, Simulation and Control**, Interuniversity Attraction Poles (IAP) Study Day, Louvain-la-Neuve, Belgium, November 2002

Book contributions:

- Meng L., **Cooperative Intelligent Transport Systems: Towards High-Level Automated Driving**, The Institute of Engineering and Technology, ISBN 978-1-83953-012-8, 2019
- Hill Francis S. and Kelley Stephen M., **Computer Graphics using OpenGL**, 3rd edition, Pearson Prentice Hall, ISBN 0-13-149670-0, 2007 (cover art, inside illustrations, support, and suggestions)
- Akkermans L., Carlier K., Maerivoet S., **A Study on Co-modality and Eco-driving Mobility**, in Science, Society and New Technologies Series, Research for Innovative Transports Set, Volume 1, Energy and Environment, ISTE & Wiley, eds. Michel André and Zissis Samaras, chapter 19, pages 20-22, June 2016

Projects

- **ITS.be MaaS Vision**: Transfer price and products availability (2024)
- **Alliance freight traffic modelling The Netherlands** (2024-2026)
- **Study about incentives given by mobility taxation** (2023-2024)
- **Ecosystem analysis of traffic count data** (2024)
- **CEDR TIARA**: Trusted Integrity and Authenticity for Road Applications (2023-2025)
- **Optimisation tram Antwerp** (2023-2024)
- **Optimisation planning processes De Lijn** (2023)
- **FLOMOVIA** (2023-2025)
- **Mobility budget Hasselt-Leuven** (2023-2024)
- **C-Roads Antwerpen – Helmond** (2022-2024)
- **Update transport costs ISVAG** (2022-2023)
- **TM4CAD**: Traffic management for Connected and Automated Driving (2021-2023)
- **Innovative partnership Mobilidata Core**: C-ITS impact assessments, user acceptance, and business modelling (2021-2023)
- **Mechelen VGS**: Supporting the deployment of a traffic management system in Mechelen (2022-2023)
- **C-ITS InterCor Evaluations**: Technical, impact and user experience (2019-2023)
- **H2020 nuMIDAS**: New Mobility Data and Solutions Toolkit (2021-2023)
- **Impact Assessment of Directive 96/53 on Weights and Dimensions** (2022-2023)
- **Support Study for the Ex-Post Evaluation of Directive 96/53 on Weights and Dimensions** (2022-2023)
- **Environmental impact postal sector**: Supporting research on indicators for the postal sector (2022)
- **Opportunities report smart electric mobility and charging infrastructure** (2022)
- **Developing a Vision on truck parkings** (2021-2022)
- **Vilvoorde traffic and parking guidance with ANPR and PGS technology** (2021-2022)
- **Evaluation of Directives on Periodic roadworthiness** (2021-2022)
- **Overweight vehicles' impacts on road infrastructure and safety** (2020-2021)
- **Leuven VGS**: Supporting the deployment of a traffic management system in Leuven (2019-2022)
- **Impact studies SmartMove** (2021-2022)
- **Supporting Traffic Management in Albania** (2021-2022)
- **Evaluation and impact assessment for the revision of the Directives of the Roadworthiness Package** (2022-2023)
- **Consultancy services for automotive safety** (2020-2024)

- **Supporting the Belgian Mobility Dashboard** (2020-2022)
- **WeCount**: Smart and low-cost traffic measurements (2019-2021)
- **ConACon**: Context-Aware Control (2018-2021)
- **SECREDAS**: Cyber Security for Cross Domain Reliable Dependable Automated Systems (2018-2021)
- **TransAID**: Autonomous vehicles and transition areas for infrastructure-assisted driving (2017-2021)
- **Flemish Monitor for Interconnections** (2019-2021)
- **Indonesia freight and logistics GIZ update** (2019-2020)
- **SEARUB**: Study on the effects of automation on road user behaviour and performance (2019-2020)
- **Objectifying mobility policy Flemish employers platform** (2020)
- **CITRUS**: Field tests in Flanders (Belgium) with cooperative intelligent transport systems for trucks (2016-2020)
- **Telraam**: Affordable, intricate traffic counts with Raspberry Pi (2018-2020)
- **Opportunities report smart sustainable mobility** (2019)
- **Garage Swap**: Sustainable sharing and concentrating through deviation of the parking norm (2017-2019)
- **INTUIT**: Interactive Toolset for Understanding Trade-offs in ATM Performance (2016-2018)
- **Developing a bus and coach mobility vision** (2016-2017)
- **Support provincial traffic models** (2015-2017)
- **Sustainable transport infrastructure charging** (2016-2017)
- **Shifting from Labour Taxation to Road Pricing** (2016-2017)
- **Holistic Personal Public Eco-Mobility (HoPE)**: Smart ticketting and smart trip planning (2013-2017)
- **Update transport costs ISVAG** (2016)
- **Internalisation of External Costs of Transport in Flanders** (2016)
- **ShopMob data analyses**: Analysing data sets within the framework of the project “ShopMob: mobility and ‘rush hour avoidance’ while shopping” (2015-2016)
- **Train Scheduling: The Game**: Optimization of train scheduling in a pc simulation game environment (2015-2016)
- **Training Vlaamse Stichting Verkeerskunde**: Mobility academy parking policy (2013-2016)
- **EMDAS**: Environmental Modelling for automated Driving and Active Safety (2015-2016)
- **Understanding the second hand car market in the EU** (2015)
- **ITSB VIS Support** (2015)
- **Concept Grant Hendrik Heymansquare Sint-Niklaas** (2014-2015)
- **Olympus**: Electric vehicles sharing services based on a B2B service platform (2012-2015)
- **Support creation ITS-actionplan for Flanders** (2014)
- **Parking study for the City of Antwerp**: Revision of the current parking policy plan (2013-2014)
- **SCBA Trajectory speed control** (2014)
- **Advisory VIM**: evaluation project concepts (2013-2014)
- **MODUM**: Models for Optimising Dynamic Urban Mobility (2011-2014)
- **OPTIMISM**: Optimising Passenger Transport Information to Materialise Insights for Sustainable Mobility (2011-2013)
- **ECOSTAND**: Support for a Joint Task Force of Europe, Japan and USA on setting a common research agenda for assessing impact of ITS on energy efficiency (2010-2013)
- **Parking study Grote Markt Blankenberge**: Parking balance and parking duration study for a new public parking infrastructure (2013)
- **Supporting the Development of the White Book on Spatial Planning Policy in Flanders**: TML supports the Flemish government on the topics related to mobility (2013)
- **ITSB Impact Assessment**: overview of the state-of-the-art and analysis of the existing literature (limited impact assessment) (2012)
- **Affordable and profitable taxis in BRC**: Research on the currently applicable tariff structure in BMC (2012)
- **Supporting smarter mobility**: A technological and innovative solution for road charging, eCall, and other services (2009-2012)
- **Competition recreational cluster Moerelei**: Drafting a vision on the future of the recreational cluster ‘Moerelei’ in Wilrijk (2012)
- **Mobility and accessibility study parking Carrefour Herstal**: Study about the traffic circulation around the parking site of Carrefour in Herstal (2011-2012)
- **A study on co-modality and eco driving mobility**: Data enrichment applied to detailed mobility data (2011)
- **Impact EU ITS directive**: Sanity check on investments in the ITS sector (2011).

- **Overview ITS market Belgium 2010**: Opportunities and obstacles for Dutch companies (2011)
- **The future of ISVAG**: Consideration of future scenarios for the waste incineration plant ISVAG (2009-2010)
- **Effects of a driving restriction for heavy goods vehicles on Sunday in the Walloon region**: Study of the economic, environmental and traffic effects in the Walloon region of a driving restriction for heavy goods on Sunday (2010)
- **iPark4U**: Demonstration project for in-car parking navigation (2009-2010)
- **MIRA external costs**: Internalisation of external costs in Flanders (2010)
- **Estimation of used parking spaces in Leuven**: Statistical analysis of payment transactions (2009-2010)
- **Estimation of travel time losses on trajectories**: How much congestion is a commuter encountering? (2010)
- **Evacuation of disabled persons**: Development of a model for the evaluation of the accessibility, fire safety and evacuation of disabled persons in the hotel and catering industry (2007-2009)
- **Expert system for traffic data**: Quality control and reconstruction of traffic data for traffic indicators (2007-2009)
- **SUSTAPARK**: Optimising price and location of parking in cities under a sustainability constraint (2007-2009)
- **Traffic circulation parking Carrefour in Korbeek-Lo**: Study about the traffic circulation on and around the parking site (2009)
- **Analysis of traffic congestion in Belgium**: Evolution of traffic congestion in light of the growth in traffic demand and possible control measures (2008)
- **FLEXSYS**: Flexible traffic management system (2006-2008)
- **Traffic indices**: Traffic statistics for the Belgian motorway network (2001-2008)
- **NDP Oslo**: Network Design Problem for Oslo greater area (2006-2007)
- **CFVD**: Validation of travel times based on Cellular Floating Vehicle Data (2006)
- **Sustainability effects of traffic management systems** (2001-2005)

Scientific reviewer

International journals:

- The European Physical Journal B: Condensed Matter and Complex Systems
- International Journal of Modern Physics C: Computational Physics and Physical Computation
- Journal of Statistical Physics
- Journal of Transportation Engineering (American Society of Civil Engineers)
- Physica A: Statistical Mechanics and its Applications
- Transportation Research Part C: Emerging Technologies
- IEEE Transactions on Vehicular Technology: Special Section on Telematics Advances for Vehicular Communication Networks
- Computer Communications
- Transportation Research Board (TRB)
- Transactions on Intelligent Transportation Systems
- Encyclopedia of Complexity and Systems Science, section Traffic Cellular Automata
- Transportation Research Records (TRR)

International conferences:

- 10th Transport Research Arena (TRA) Dublin, Ireland, 15-18 April 2024
- ITS.be Congress 2023, organising committee
- 15th ITS European Congress, Lisbon, Portugal, 22-24 May 2023
- 9th Transport Research Arena (TRA) Lisbon, Portugal, 14-17 November 2022
- 14th ITS European Congress (bis), Toulouse, France, 30 May – 1 June 2020
- ITS.be Congress 2022, organising committee
- ITS.be Congress 2021, organising committee
- ITS World Congress, Hamburg, Germany, 11-15 October 2021
- ITS.be Congress 2020, organising committee
- 14th ITS European Congress, Lisbon, Portugal, 18-21 May 2020
- Transportation Research Arena (TRA2020), Helsinki, Finland, 27-30 April 2020
- ITS.be Congress 2019, organising committee
- 3rd Workshop on Connected, Cooperative, and Automated Driving, 9 June 2019, Paris, France
- 6th International Conference on Models and Technologies for Intelligent Transportation Systems, 5-7 June 2018, Kraków, Poland
- 13th International Conference on Cellular Automata for Research and Industry (ACRI), member of the

Programme Committee on Traffic and Cellular Automata, 17-21 September 2018, Como, Italy
- 18th International IEEE Conference on Intelligent Transportation Systems, 15 – 18 September 2015
- 17th International IEEE Conference on Intelligent Transportation Systems, 8 – 11 October 2014, Qingdao, China
- 11th International Conference on Cellular Automata for Research and Industry (ACRI), member of the Programme Committee for "Traffic and Cellular Automata", 22 – 25 September 2014, AGH University of Science and Technology, Krakow, Poland.
- 16th International IEEE Annual Conference on Intelligent Transportation Systems, 6 – 9 October 2013, The Hague, Netherlands
- 10th International Conference on Cellular Automata for Research and Industry (ACRI), member of the Scientific Committee on "Traffic and Cellular Automata", 24 – 27 September 2012, Santorini Island, Greece
- 2nd International Conference on Models and Technologies for ITS, 22 – 24 June 2011, Leuven, Belgium
- 9th International Conference on Cellular Automata for Research and Industry (ACRI), member of Programme Committee on Traffic and Cellular Automata, 21 – 24 September 2010, Ascoli Piceno, Italy
- 13th International IEEE Conference on Intelligent Transportation Systems (ITS), 19 – 22 September 2010, Madeira, Portugal
- 4th International Conference on High Performance Scientific Computing – Modeling, Simulation and Optimization of Complex Processes, 2 – 6 March 2009, Hanoi, Vietnam
- 11th International IEEE Conference on Intelligent Transportation Systems (ITS), 12 – 15 October 2008, Beijing, China
- 2008 IEEE Intelligent Vehicles Symposium, 4 – 6 June 2008, Eindhoven, The Netherlands
- 10th International IEEE Conference on Intelligent Transportation Systems (ITS), 30 September – 3 October 2007, Seattle, Washington, USA

Memberships
- 2023 – now: Member of the Task Force Autonomous Transportation Flanders
- 2021 – now: Member of Industrial Advisory Board for Master Mathematical Engineering (KU Leuven)
- 2021 – now: Member of Board of Directors national Oud-KSA group De Sjelter
- 2021 – now: Head editor magazine Afkikker (working group Communication national Oud-KSA De Sjelter)
- 2021: Member of Internet of Things Convention Smart Mobility Advisory Board
- 2018 – now: Board of Directors ITS Belgium
- 2013 – 2017: Working groups +16 and Volunteer policies (KSJ-)KSA(-VKSJ) Nationaal
- 2012 – 2014: Member of the advisory council of the Flemish Institute for Mobility (VIM)
- 2011 – 2017: President Steering Committee Communication (KSJ-)KSA(-VKSJ) Nationaal
- 2001 – 2013: Editor Leader Magazine (KSJ-)KSA(-VKSJ) Nationaal
- 1998: Mentor UIA (Praesidium WINAK, University of Antwerp)
- 1992 – 2012: KSA Vlaamse Kerels Zwijndrecht (11 years active leader 9-12, 12-14, 14-16, 16+; 14 years management; 5 years cook, communication and magazines)

Teaching
- 2001 – now: guidance and evaluation of various master theses and internships
- 2006 – now: "Traffic Theory: An Interplay of Models, Simulations and Control Actions", Lecture for Case studies Master in Mathematical Engineering, Katholieke Universiteit Leuven
- 2001 – 2006: "Case studies of datamining and industrial process control", 5th year Civil Engineering, Department of Electrical Engineering, Katholieke Universiteit Leuven
- 2000 – 2001: Teaching practica "Introduction to software engineering", 1st year Computer Science, Universiteit Antwerpen (RUCA)
- 2000 – 2001: Teaching "Inleidingstraject ICT", Open Universiteit (adult education)
- 1999 – 2001: Teaching practica "Programming in Oberon", 1st year Computer Science, Universiteit Antwerpen (RUCA)
- 2001 – now: Various traffic science-related lectures at the KU Leuven

Lectures

- 18/04/2024: nuMIDAS: The New Mobility Data and Solutions Toolkit (10th Transport Research Arena (TRA) Dublin, Ireland)
- 18/04/2024: Integrated Evaluation of and Vision on Truck Parking in Flanders, Belgium (10th Transport Research Arena (TRA) Dublin, Ireland)
- 11/04/2024: Introducing TML to the Vietnamese Ministry of Transportation, Leuven, Belgium
- 06/03/2024: Policy support based on quantitative analysis of HGV OBU data (Road User Charging Conference 2024, Brussels, Belgium)
- 30/11/2023: Accelerating Smart Mobility through Innovative Data Sharing (i-KNOW Innovation Days 2023, Talks on Smart Mobility, Gent, Belgium)
- 12/10/2023: Het ongebruikte potentieel van ANPR-camera's (TML Talk #16, Leuven, Belgium)
- 04/10/2023: C-ITS Innovations (moderating at the Belgian ITS Congress, Brussels, Belgium)
- 14/06/2023: SmartMove: Impact Analysis (ITS.be webinar on road (user) charging, online)
- 24/05/2023: Integrated Evaluation of and Vision on Truck Parking in Flanders, Belgium (ITS European Congress, Lisbon, Portugal)
- 22/05/2023: nuMIDAS: The New Mobility Data and Solutions Toolkit (ITS European Congress, Lisbon, Portugal)
- 14/02/2023: The New Mobility Data and Solutions Toolkit (nuMIDAS) (ERTRAC RTR Conference on Results from Road Transport Research, Brussels, Belgium)
- 01/12/2022: nuMIDAS: Dealing with new data and mobility solutions (POLIS Annual Conference, Brussels, Belgium)
- 15/11/2022: Traffic Management for Connected and Automated Driving (TM4CAD) (9th Transport Research Arena (TRA) Lisbon, Portugal)
- 15/11/2022: Enhanced traffic management procedures of connected and autonomous vehicles in transition areas (TransAID) (9th Transport Research Arena (TRA) Lisbon, Portugal)
- 14/11/2022: The New Mobility Data and Solutions Toolkit (nuMIDAS) (9th Transport Research Arena (TRA) Lisbon, Portugal)
- 27/10/2022: An overview of 20 years TML (Leuven, Belgium)
- 06/10/2022: coordinating the ITS Belgium National ITS Congress (Brussels, Belgium)
- 31/05/2022: Traffic Management for Connected and Automated Driving (TM4CAD) (14th ITS European Congress, Toulouse, France)
- 30/05/2022: The New Mobility Data and Solutions Toolkit (nuMIDAS) (14th ITS European Congress, Toulouse, France)
- 27/04/2022: Next Generation of Traffic Planning for Smart Cities (Internet of Things Convention: Smart Mobility & The Energy Shift, online)
- 22/02/2022: Congestion under Investigation (Case studies: Mathematical Engineering Techniques, Katholieke Universiteit Leuven, Leuven, Belgium)
- 22/11/2021: Jury Business Mobility Awards (Award Ceremony, Vlaamse Stichting Verkeerskunde, Antwerp, online)
- 17/11/2021: Telraam: Mobiliteit hacken met citizen science (Hack de stad, Stadsform x Imec, Antwerp, Belgium)
- 20/10/2021: User acceptability and acceptance in light of cybersecurity (SECREDAS Final Conference, Helmond, The Netherlands)
- 12/10/2021: Impact Assessment and User Acceptance of Cooperative ITS for Trucks (Hamburg, Germany)
- 15/06/2021: Deep learning en crowd sourcing in verkeersplanning in de smart city van de toekomst (DOCVILLE+ The Future Talks, Leuven, Belgium)
- 03/06/2021: Mobility of the Future(with a Reality Check) (Imec Leuven Mindgate Visionary Seminar on Mobility of the Future, online)
- 09/03/2021: Congestion under Investigation (Case studies: Mathematical Engineering Techniques, Katholieke Universiteit Leuven, Leuven, Belgium)
- 21/01/2021: Linking mix of technologies to meet societal goals (Agoria Webinar Sustainable Vehicle Technologies, online)
- 09-10/11/2020: Enhanced Traffic Management Procedures of Connected and Autonomous Vehicles in Transition Areas (14th ITS European Congress, online)
- 09-10/11/2020: Impact Evaluation and User Acceptance of C-ITS IVI Services (14th ITS European Congress, online)
- 03-05/11/2020: Enhanced Traffic Management Procedures of Connected and Autonomous Vehicles in Transition Areas (Forum on Integrated and Sustainable Transportation System (FISTS), online)
- 07/10/2020: De invloed van in-het-voertuig getoonde verkeersinformatie op het rijgedrag van de chauffeur (De VerkeersGedragDag, edition 2020, online)
- 24/09/2020: coordinating the ITS Belgium National ITS Congress (online/Brussels)

- 23/09/2020: member of the debate panel for City Buildings Transformation (WTCB Vision 2030, online/Limelette)
- 22/09/2020: Study on congestion and potential new technologies (Agoria Smart Mobility Working Group, online/Brussels)
- 07/07/2020: Assessment of traffic safety and efficiency in light of dynamic traffic management (The 3rd Symposium on Management of Future Motorway and Urban Traffic Systems (MFTS2020), online/Luxembourg)
- 01-02/07/2020: coordinating the TransAID final conference (online/Leuven)
- 10/03/2019: ConACon: verkeersmanagement van zelfrijdende voertuigen (nomination for the Traffic Safety Award, the Flemish Conference on Traffic Safety, Brussels, Belgium)
- 03/03/2019: Congestion under Investigation (Case studies: Mathematical Engineering Techniques, Katholieke Universiteit Leuven, Leuven, Belgium)
- 14/02/2020: De impact van trajectcontroles (Dag van het GVC, Federale Politie, Gent, Belgium)
- 14/01/2020: Smart & Sustainable Mobility: ITS & MaaS (Trade Mission for the Dutch Royal Embassy, Brussels, Belgium)
- 29/11/2019: Kansenseminar Slimme Duurzame Mobiliteit in België (Rijksdienst voor Ondernemend Nederland, Utrecht, The Netherlands)
- 27/11/2019: Enhanced Traffic Management of Connected and Autonomous Vehicles in Transition Areas (Polis Annual Conference, Brussels, Belgium)
- 09/10/2019: Joint INFRAMIX-TransAID Workshop on Infrastructure Requirements & Traffic Control Strategies for Automated Driving (Virtual Vehicle Center, Graz, Austria)
- 03/10/2019: Traffic Information and Management (workshop organisation at the Belgian ITS Congress, Brussels, Belgium)
- 03/10/2019: Van parkeren tot mobiliteitsmanagement in Leuven (Belgian ITS Congress, Brussels, Belgium)
- 01/10/2019: Infrastructure-Assisted Management for Mixed Traffic at Transition Areas (ODD Workshop, Torino, Italy)
- 19/09/2019: Traffic Management and Automated Driving (TM 2.0 Steering Body, Brussels, Belgium)
- 25/07/2019: Enhanced Traffic Management Procedures in Transition Areas (US CAMP Twinning meeting, Detroit, US)
- 09/06/2019: Joint Workshop on Connected, Cooperative, and Automated Driving (IEEE Intelligent Vehicles (IV), Paris, France)
- 04/06/2019: Enhanced Traffic Management Procedures in Transition Areas (13th ITS European Congress, Eindhoven, The Netherlands)
- 29/05/2019: Inclusieve mobiliteit: MaaS en zelfrijdende voertuigen (TML Talk #1, Leuven, Belgium)
- 21/03/2019: Reality check: The impact of AVs and MaaS (Cleantech Community Forum, Leuven, Belgium)
- 12/03/2019: Congestion under Investigation (Case studies: Mathematical Engineering Techniques, Katholieke Universiteit Leuven, Leuven, Belgium)
- 25/10/2018: TransAID: Traffic Management for CAVs at Transition Areas (MAVEN Expert Meeting, Greenwich, United Kingdom)
- 11/10/2018: Research Agenda for MaaS (workshop organisation at the Belgian ITS Congress, Brussels, Belgium)
- 11/10/2018: Traffic Information and Management (moderating at the Belgian ITS Congress, Brussels, Belgium)
- 19/09/2018: TransAID: Transition Areas for Infrastructure-Assisted Driving (European Commission breakout session, 25th ITS World Congress, Copenhagen, Denmark)
- 18/09/2018: Trip and tourist tour planning with integrated fare and ticketing management (25th ITS World Congress, Copenhagen, Denmark)
- 19/02/2018: Congestion under Investigation (Case studies: Mathematical Engineering Techniques, Katholieke Universiteit Leuven, Leuven, Belgium)
- 11/12/2017: Verkeersveiligheid en big data: gedragsverandering en ondersteuning à la carte of table d'hôte? (by L. Akkermans) (Studiedag Verkeersveiligheid: Uitgedaagd door Apps+, Flemish Parliament, Brussels, Belgium)
- 10/10/2017: Keynote: Road Pricing, Low-Emission Zones, and Traffic Management (Satellic, Brussels, Belgium)
- 27/09/2017: Artificial Intelligence and Traffic Systems (City Transport & Traffic Innovation (CiTTi) Conference, Amsterdam, The Netherlands)
- 22/06/2017: Operational Safety for Autonomous Vehicles (12th ITS European Congress, Strasbourg, France)
- 03/05/2017: Roundtable for motorcycling (impactanalysis) (Febiac + Minister Kris Peeters, Brussels, Belgium)

- 06/03/2017: Congestion under Investigation (Case studies: Mathematical Engineering Techniques, Katholieke Universiteit Leuven, Leuven, Belgium)
- 20/02/2017: Impact ITS Maatregelen (Training day "Richting slimme mobiliteit op lokaal niveau", Vlaamse Stichting Verkeerskunde, Leuven, Belgium)
- 11/02/2017: De fileproblematiek, Regionet Leuven en nieuwe technologieën (Perspectieven voor de mobiliteit in het arrondissement Leuven, Brainstorm-studiedag N-VA arrondissement Leuven rond streekmobiliteit, Leuven, Belgium)
- 09/06/2016: (R)evolutions in route planners (11th ITS European Congress, Glasgow, Scotland)
- 24/05/2016: Introducing Transport & Mobility Leuven (Flanders' MAKE Network Pitch Session, 9th Graz Symposium Virtual Vehicle, Graz, Austria)
- 12/04/2016: Parkeren en ITS/ICT (Training day "Parkeren: Broodnodig?!", Vlaamse Stichting Verkeerskunde, Antwerp, Belgium)
- 12/04/2016: Maatregelen Parkeerorganisatie (Training day "Parkeren: Broodnodig?!", Vlaamse Stichting Verkeerskunde, Antwerp, Belgium)
- 03/03/2016: Panel Discussion: Meeting the Needs of Future Congestion Zones (Road User Charging Conference 2015, Brussels, Belgium)
- 15/02/2016: Congestion under Investigation, recording (MP3 file, 99.66 MiB) (Case studies: Mathematical Engineering Techniques, Katholieke Universiteit Leuven, Leuven, Belgium)
- 17/12/2015: Data science in traffic analysis, link to the video (Brussels Data Science Meetup, Brussels, Belgium)
- 11/12/2015: Debate "The future of the selfdriving car" (Festival van de Gelijkheid, Ghent, Belgium)
- 19/11/2015: Open data as an accelerator and enabler for cities (POLIS Conference, Brussels, Belgium) [photo / photo / photo / photo]
- 27/10/2015: Transport and Urban Innovation: Developments and Ways Forward (Public Policy Exchange, Smart Cities Symposium, Brussels, Belgium)
- 01/10/2015: ITS Action Plans (ITS Belgium Conference, Interactive session, ITS Belgium, Brussels, Belgium)
- 12/09/2015: Towards an objective framework to assess the impact of driverless vehicles (Smart Systems, Bits & Chips, Den Bosch, The Netherlands)
- 12/09/2015: Verkeer in gevaar (programme, Academische Zitting, Geneeskundige Dagen van Antwerpen, Universiteit Antwerpen, Antwerpen, Belgium)
- 28/05/2015: Autonomous Vehicles (transcript, Hearing Flemish Parliament, Commission Mobility and Public Works, Brussels, Belgium)
- 30/03/2015: Verkeersdata en -software in het gemeentelijk mobiliteitsbeleid (Mobiliteitsacademie, Vlaamse Stichting Verkeerskunde, Mechelen, Belgium)
- 09/03/2015: Congestion under Investigation (Case studies: Mathematical Engineering Techniques, Katholieke Universiteit Leuven, Leuven, Belgium)
- 03/12/2014: Voorstelling TML aan VTM (VTM, Brussels, Belgium)
- 01/12/2014: Parkeren en ITS/ICT (Training day Parking, Vlaamse Stichting Verkeerskunde, Mechelen, Belgium)
- 27/11/2014: Introducing TML to New Zealand (New Zealand City Council, Leuven, Belgium)
- 17/10/2014: Big Data & Mobility (ITS Belgium Conference, Winner of the Silver Medal for best presentation, ITS Belgium, Brussels, Belgium)
- 17/10/2014: Regional ITS Action Plans: Towards a Flemish ITS Action Plan (ITS Belgium Conference, Interactive session, ITS Belgium, Brussels, Belgium)
- 02/06/2014: Verkeersdata en -software in het gemeentelijk mobiliteitsbeleid (Mobiliteitsacademie, Vlaamse Stichting Verkeerskunde, Antwerp, Belgium)
- 16/04/2014: A study on co-modality and eco-driving mobility (Transport Research Arena TRA2014, Paris, France)
- 16/04/2014: A behavioural experiment on intelligent road user charging (Transport Research Arena TRA2014, Paris, France)
- 16/04/2014: Models for optimising dynamic urban mobility (MODUM) (Transport Research Arena TRA2014, Paris, France)
- 26/02/2014: De fileproblematiek onder de loep genomen (Case studies: Mathematical Engineering Techniques, Katholieke Universiteit Leuven, Leuven, Belgium)
- 08/11/2013: Congestion under investigation (VLITS seminar, KU Leuven, Leuven, Belgium)
- 31/10/2013: Road User Charging Field Trial in Leuven, MODUM, ECOSTAND, OPTIMISM (Innovations in Transport event at the Manchester Science Festival, United Kingdom)
- 04/10/2013: Towards a Common Template for ITS Action Plans (Interactive session, ITS Belgium Congress, Brussels, Belgium)
- 05/06/2013: A Field Trial on Smart Mobility (European ITS Congress, Dublin, Ireland)
- 27/03/2013: De fileproblematiek onder de loep genomen (Case studies: Mathematical Engineering

Techniques, Katholieke Universiteit Leuven, Leuven, Belgium)
- 26/03/2013: ITS in België: Aanstormende Opportuniteiten (Connekt/ITS Netherlands study trip, Antwerp, Belgium)
- 20/03/2013: Parkeren en ITS/ICT (Training day Parking, Vlaamse Stichting Verkeerskunde, Brussels, Belgium)
- 06/03/2013: A Field Trial on Smart Mobility in the Testbed Leuven (Road User Charging Conference 2013, Brussels, Belgium)
- 12/11/2012: Introducing Transport & Mobility Leuven & A Field Trial on Smart Mobility in the Testbed Leuven (New Zealand City Council, Leuven, Belgium)
- 09/11/2012: A Field Trial on Smart Mobility in the Testbed Leuven (VLITS seminar, KU Leuven, Leuven, Belgium)
- 26/10/2012: A Field Trial on Smart Mobility in the Testbed Leuven (19th ITS World Congress, Vienna, Austria)
- 05/10/2012: Kilometerbeprijzing in een stedelijke omgeving (ITS Belgium Congress, Brussels, Belgium)
- 05/10/2012: ITS Action Plans for Cities (Interactive session, ITS Belgium Congress, Brussels, Belgium)
- 21/09/2012: De fileproblematiek onder de loep genomen (Internationaal Wiskunde Toernooi (teachers), Leuven, Belgium)
- 21/09/2012: Files overal... ook in de computer! (Internationaal Wiskunde Toernooi (students), Leuven, Belgium)
- 14/09/2012: Voorstelling TML aan de VRT Verkeersredactie (VRT, Brussels, Belgium)
- 14/06/2012: Impact of the ITS Directive (ITS Action Plans, ITS Belgium, Belgium)
- 04/04/2012: Slimme kilometerheffing in de proeftuin Leuven (VerkeersgedragDag, TNO, The Netherlands)
- 27/03/2012: Verkeerskunde: een samenspel van modellen, simulaties en regelacties (Case studies: Mathematical Engineering Techniques, Katholieke Universiteit Leuven, Leuven, Belgium)
- 22/03/2012: Slimme kilometerheffing in de proeftuin Leuven (Hearing Flemish Parliament, Commission Mobility and Public Works, Brussels, Belgium)
- 21/03/2012: Slimme kilometerheffing in de proeftuin Leuven (Mobiliteitsbeheer vandaag en morgen, Leuven.Inc & VeroTech seminar, Haasrode, Belgium)
- 21/03/2012: Verkeersmanagement in Vlaanderen: algemeen kader en opportuniteiten (Mobiliteitsbeheer vandaag en morgen, Leuven.Inc & VeroTech seminar, Haasrode, Belgium)
- 12/03/2012: The Impact of a Sunday Driving Ban for HGVs in the Walloon Region (Transport & Mobility Leuven (TML) seminar, Leuven, Belgium)
- 02/03/2012: Proeftuin Leuven: voorstelling opzet en resultaten (Kabinet Grouwels, Brussels, Belgium)
- 15/02/2012: Proeftuin Leuven: persvoorstelling (Stad Leuven, Belgium)
- 31/01/2012: Proeftuin Leuven: voorstelling resultaten (Stad Leuven, Belgium)
- 01/12/2011: The impact of a Sunday driving ban for HGVs in the Walloon Region (Vervoerslogistieke Werkdagen, Antwerpen, Belgium)
- 14/10/2011: Potential impact of the ITS Directive (Interactive session, Winner of the Silver Medal for best presentation, ITS Belgium Congress, Brussels, Belgium)
- 14/10/2011: Building Blocks for the ITS Directive (Interactive session, ITS Belgium Congress, Brussels, Belgium)
- 11/04/2011: Mobiliteitsonderzoek België 2010 (NL EVD International, Den Haag, The Netherlands)
- 08/04/2011: Slimme Mobiliteit in de Proeftuin Leuven (Actuasessie Rekeningrijden, VOKA, Brussels, Belgium)
- 23/03/2011: Verkeerskunde: een samenspel van modellen, simulaties en regelacties (Case studies: Mathematical Engineering Techniques, Katholieke Universiteit Leuven, Leuven, Belgium)
- 03/02/2011: Schatting verliestijden op trajecten (State secretary for Mobility Bruno De Lille, Brussels, Belgium)
- 25/10/2010: The Future of ISVAG (confidential, Transport & Mobility Leuven (TML) seminar, Leuven, Belgium)
- 21/10/2010: Product Launch Testbed Smart Mobility Live in Leuven (ITS Belgium Congress, Brussels, Belgium)
- 30/08/2010: iPark4U (Transport & Mobility Leuven (TML) seminar, Leuven, Belgium)
- 07/07/2010: Smart Mobility in the City of Leuven (Australian's National Transport Council, Leuven, Belgium)
- 02/06/2010: Smart Mobility in the City of Leuven (IBM Innovation Week, Brussels, Belgium)
- 22/04/2010: Mobiliteitsbeheersing en rekeningrijden: mobiliteit in Vlaanderen en Leuven (Leuven.inc Themasessie "Mobiliteitsbeheersing en rekeningrijden", Leuven, Belgium)

- 21/04/2010: Leuven: Vlaamse proeftuin voor Intelligente Mobiliteit (Showcase Smart Mobility, Sportoase, Leuven, Belgium)
- 02/03/2010: Verkeerskunde: een samenspel van modellen, simulaties en regelacties (Case studies: Mathematical Engineering Techniques, Katholieke Universiteit Leuven, Leuven, Belgium)
- 14/12/2009: Clustering of Daily Traffic Measurements (Transport & Mobility Leuven (TML) seminar, Leuven, Belgium)
- 30/10/2009: Sustainable parking management: the SUSTAPARK project (POLIS network, Meeting of Working Group on Social and Economic Aspects of Urban Transport, Brussels, Belgium)
- 21/09/2009: Traffic circulation parking Carrefour in Korbeek-Lo (confidential, Transport & Mobility Leuven (TML) seminar, Leuven, Belgium)
- 25/05/2009: SUSTAPARK: Optimising Price and Location of Parking in Cities under a Sustainability Constraint (Transport & Mobility Leuven (TML) seminar, Leuven, Belgium)
- 30/03/2009: Analysis of Congestion in Belgium (Transport & Mobility Leuven (TML) seminar, Leuven, Belgium)
- 03/03/2009: Verkeerskunde: een samenspel van modellen, simulaties en regelacties (Case studies: Mathematical Engineering Techniques, Katholieke Universiteit Leuven, Leuven, Belgium)
- 09/12/2008: Verwachte effecten van uitbreiding van infrastructuur (Hearing Flemish Parliament on expansion R0 ring around Brussels, Brussels, Belgium)
- 08/12/2008: Creative Writing (Transport & Mobility Leuven (TML) seminar, Leuven, Belgium)
- 09/07/2008: Applications of Traffic Modelling (ITS Belgium's TechWatch Seminar, Campusbibliotheek Arenberg, Leuven, Belgium)
- 10/04/2008: Feeding Delicious Data to Hungry Models (Symposium Models and Measurements in Traffic: Perspectives after TGF07, Orsay, Paris, France)
- 04/03/2008: Verkeerskunde: een samenspel van modellen, simulaties en regelacties (Case studies: Mathematical Engineering Techniques, Katholieke Universiteit Leuven, Leuven, Belgium)
- 24/10/2007: SUSTAPARK, Modelleren van een duurzaam parkeerbeleid (ITS Belgium Congress, Brussels, Belgium)
- 18/10/2007: The marginal external costs of congestion based on observed speed-flow data (in cooperation with and presented by Griet De Ceuster, 6th European Transport Conference, Leiden, The Netherlands)
- 19/06/2007: Validation of Travel Times based on Cellular Floating Vehicle Data (6th European Conference and Exhibition on Intelligent Transportation Systems, Aalborg, Denmark)
- 19/02/2007: Verkeerskunde: een samenspel van modellen, simulaties en regelacties (Case studies: Mathematical Engineering Techniques, Katholieke Universiteit Leuven, Leuven, Belgium)
- 11/12/2006: Floating Car Data (Transport & Mobility Leuven (TML) seminar, Leuven, Belgium)
- 27/06/2006: Modelling Traffic on Motorways (Doctoral defence, Katholieke Universiteit Leuven, Leuven, Belgium)
- 05/10/2005: Verkeerskunde: een samenspel van modellen, simulaties en regelacties (not available, Case studies of datamining and industrial process control, HK05, Katholieke Universiteit Leuven, Leuven, Belgium)
- 29/04/2005: Real-Time Models of Road Traffic (PhD Doctoral Research Intermediate Evaluation, Katholieke Universiteit Leuven, Leuven, Belgium)
- 14/04/2005: Verkeerskunde: een samenspel van modellen, simulaties en regelacties (Economische Sectoren en Technologie, D266, Katholieke Universiteit Leuven, Leuven, Belgium)
- 29/09/2004: Verkeerskunde: een samenspel van modellen, simulaties en regelacties (Case studies of datamining and industrial process control, HK05, Katholieke Universiteit Leuven, Leuven, Belgium)
- 16/09/2004: Evalueren aan de hand van papers (Duo/Icto summercourse "Doceren in het BaMa tijdperk", Katholieke Universiteit Leuven, Leuven, Belgium)
- 01/09/2004: Sustainability Effects of Traffic Management Systems (The Transport Science and Technology Congress - TransTec04, Athens Hilton Hotel, Athens, Greece)
- 26/05/2004: Traffic @ SISTA (SYSTeMS Dialog, University of Gent, Ghent, Belgium)
- 03/05/2004: Models in Aid of Traffic Management (Seminarie transportmodellen ter ondersteuning van het mobiliteits- vervoersbeleid in België, Brussels, Belgium)
- 28/04/2004: Verkeer @ SISTA (Transport & Mobility Leuven (TML) seminar, Leuven, Belgium)
- 17/03/2004: Efficient Microscopic Simulation of Large Scale Highway Traffic Flows (23rd Benelux Meeting on Systems and Control, Helvoirt, The Netherlands)
- 15/03/2004: Verkeerskunde: een Samenspel van Modellen, Simulaties en Regelacties (Economische Sectoren en Technologie, D266, Katholieke Universiteit Leuven, Leuven, Belgium)
- 14/03/2004: Modelleren, Simuleren en Regelen van Verkeersstromen (Dag van de Technologie, Katholieke Universiteit Leuven, Leuven, Belgium)
- 05/03/2004: Traffic: an Interplay between Models, Simulations, and Control Actions (Friday Seminar, University of Antwerp, Antwerp, Belgium)

- 16/11/2003: Development of an Improved Traffic Cellular Automaton Model for Traffic Flows on a Highway Road Network (10th World Congress and Exhibition on Intelligent Transport Systems and Services, Madrid, Spain)
- 29/10/2003: Modelleren, simuleren en beheersen van verkeersstromen (not available, Case studies of datamining and industrial process control, HK05, Katholieke Universiteit Leuven, Leuven, Belgium)
- 01/10/2003: A Comparison of a Cellular Automaton and a Macroscopic Model (Workshop on Traffic and Granular Flow 2003, Technical University of Delft, The Netherlands)
- 16/06/2003: Traffic and Chickens (not available, SISTA Brainstorm Sessions, Katholieke Universiteit Leuven, Leuven, Belgium)
- 16/05/2003: Academic Oratory Skills - Mastering original and persuasive speech (Academic English, CLT/ILT, Katholieke Universiteit Leuven, Leuven, Belgium)
- 10/04/2003: SISTA Introduction to Toyoda-San (Toyota) (KU Leuven, Leuven, Belgium)
- 10/04/2003: Traffic Flow Seminar II: A Survey on the Qualitative Behaviour of Traffic Cellular Automata (SISTA-seminars, Katholieke Universiteit Leuven, Leuven, Belgium)
- 21/03/2003: Development of a Traffic Cellular Automaton Model for Highway Traffic (22nd Benelux Meeting on Systems and Control, De Vossemeren, Lommel, Belgium)
- 17/03/2003: Modelleren en simuleren van verkeersstromen (Economische Sectoren en Technologie, D266, Katholieke Universiteit Leuven, Leuven, Belgium)
- 11/12/2002: Modeling, Simulation and Control of Traffic Flows on a Highway Network (Faculty of Engineering PhD Symposium, Katholieke Universiteit Leuven, Leuven, Belgium; Winner of the "Best Poster Award")
- 26/11/2002: A Case Study on Traffic Flow Modelling, Simulation and Control (Study Day of the Interuniversity Attraction Poles (IAP), Hôtel Mercure, Louvain-la-Neuve, Belgium)
- 09/10/2002: Modelleren, simuleren en beheersen van verkeersstromen (not available, Case studies of datamining and industrial process control, HK05, Katholieke Universiteit Leuven, Leuven, Belgium)
- 06/06/2002: Traffic Flow Seminar I: An introduction to the modeling and simulation of traffic flows (SISTA-seminars, Katholieke Universiteit Leuven, Leuven, Belgium)
- 21/03/2002: PODO-II - CP/40: Sustainability Effects of Traffic Management Systems (confidential, DWTC ontmoetingsdagen, Brussels, Belgium)