

Summer meeting of the TFTC Committee
and Second workshop of the Multitude COST action
Annecy, France, 6-9 July 2010

Wednesday 7 July 1:30-6:00 pm - Verdi room

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| 1:30-2:00 | Opening of the TFT Summer meeting and conference | Christine Buisson |
| 2:00-3:40 | Calibration and Validation - Part 1 | Michael Cassidy, Chairman |
| | How Can Traffic Counts Best Support Strategic Transport Model Validation ? | Hidas, P., Milthorpe, F. |
| | Development of a travel time reliability estimation method for freeways | Arezoumandi M., Bham, G.H. |
| | Data - Model Synchronization in Extended Kalman Filters for Accurate Online Traffic State Estimation | Schreiter, Th., van Hinsbergen, Ch., Zuurbier, F., van Lint, |
| | Sensitivity analysis in car following models | Punzo, V., Ciuffo, B. |
| | The Effect Of Signal Timing And Network Irregularities In The Macroscopic Fundamental Diagram | Laval, J. A. |
| Coffee break | | |
| 4:10-4:40 | Towards an indicator for the richness of data | Winnie Daamen, Invited Speaker |
| 4:40-6:00 | Round Table: International comparison of traffic and network simulation practices | Robert Bertini, Moderator |
| | Hani Mahmassani, Nathan Gartner, Peter Vortisch, Vassili Alexiadis, Vincenzo Punzo | |
| 6:30 | Welcome Cocktail in Annecy City Hall | |



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Thursday 8 July 8:30-12:30 am

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| 8:30-9:00 | Mesoscopic Fundamental Diagrams for Freeways - Verdi room | Michael Cassidy, Invited Speaker |
| 9:00-10:20 | Calibration and Validation - Part 2 - Verdi room | Nathan Gartner, Chairman |
| | Kriging meta-modeling in the verification of traffic micro-simulation calibration procedure. Optimization algorithms and goodness of fit measures | Ciuffo, B., Punzo, V. |
| | Adaptation Effects in case of Fog: Performance and Parameter Value Effects in Simple and Multi-anticipative Car-following Models | Hoogendoorn, R., Hoogendoorn, S., Brookhuis, K., Daamen, W. |
| | Evaluating Suitability of Micro simulation as a Tool to Replicate Variations in Field Traffic Flows | Stevanovic, A., Kergaye, C. |
| | Calibration and validation of models describing the spatiotemporal evolution of congested traffic patterns | Treiber, M., Kesting, A. |
| Coffee break | | |
| 10:50-12:30 | Calibration and Validation - Part 3 - Verdi room - parallel session | Soyoung Ahn, Chairman |
| | Use of ITS Data to Calibrate Microscopic Simulation Models for Incident Conditions | Alvarez, P., Hadi, M. |
| | Trajectory data as a validation data for traffic models: NGSIM case | Casas, C., Perarnau, J. Garcia, J. L., Oller, R. |
| | Reconstructing the Wiedemann Model using Naturalistic Driving Data | Higgs, B., Abbas, M. M. Medina, A. , Yang, C. Y. |
| | Calibration by acceleration or by trajectory (Run it!) | Wagner, P., Nippold, R. Toledo, T. |
| | Use of Gps data for the analysis of vehicular interaction models | Cipriani, E., Gori, S., Mannini, L. |
| 10:50-12:30 | Modeling - Part 1 - Berlioz room - parallel session | Martin Treiber, Chairman |
| | Relaxation after on-ramps in real data and in cellular automata simulations | Du Boisberranger, J., Appert-Rolland, C. |
| | Features of Oscillations When Propagating Through A Homogeneous Highway Segment | Chen, D., Laval, J. A. |
| | Fitting Models to Data and Data to Models | Addison, J. D. |
| | On the Significance of Considering Some Important, Data supported Factors in Toll Plaza Simulation Models | Ozbay, K., Mudigonda, S., Bartin, B. |
| | Flow Density Diagram: Modeling the Data Using Kinematics | Zarrillo, M., Masoud, N. |
| Lunch | | |



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Thursday 8 July 2:00-6:00 pm

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| 2:00-3:20 | Modeling - Part 2 - Berlioz room - parallel session | Peter Hidas, Chairman |
| | Continuum Approximation for System-wide Ramp Metering: Efficiency and Equity | Chilukuri, B. R., Laval, J. A., Chen, D. |
| | How does the fundamental diagram affect traffic characterization in a kinetic modeling ? Some evidence and weather effects integration | Billot, R., de Vuyst, F., El Faouzi, N. E. |
| | Discontinuities in the Lagrangian Formulation of the Kinematic Wave Model | van Wageningen-Kessels, F., van Lint, H., Hoogendoorn, S., Vuik, K. |
| | Instability in Heterogeneous Traffic | Ward, J. A. |
| | A unified perspective on traffic flow theory: the field theory | Ni, D. |
| 2:00-3:20 | Data Collection and Use - Part 1 - Verdi room - parallel session | Ken Courage, Chairman |
| | Wireless Magnetometers for Traffic Data Collection at Signalized Intersections | Medina, J. C., Hajbabaie, A., Benekohal, R. F. |
| | Quantifying the Number of Lane Changes in Traffic | Knoop, V. L., Buisson, C., van Arem, B. |
| | The Effects of Heavy vehicle Percentage on Passenger Car Equivalency Factor | Hajbabaie, A., Benekohal, R. F. |
| | Data-Data Consistency: A New Approach to Traffic Data Fusion | Ou, Q., van Lint, H., Hoogendoorn, S.P. |
| | Time Headway Variable and Probabilistic Modeling | Ha, D. H., Aron, M., Cohen, S. |
| Coffee break | | |
| 3:50-4:20 | Driver behavior and characteristics data and their use in traffic modeling - Verdi room | Lily Elefteriadou, Invited Speaker |
| 4:20-6:00 | MULTITUDE Management Committee Meeting - Verdi room | Vincenzo Punzo, Chairman |
| 8:00 | Gala dinner: On the boat "Libellule", Quai Napoléon III, near the City hall. Boarding at 8:00 pm, return in the port at 10:30 pm, dancing on the boat afterwards. | |



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Friday 9 July 9:00-12:40 am - Verdi room

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| 9:00-9:30 | Traffic Flow Theory and Characteristics committee summer meeting | Robert Bertini, Chairman |
| 9:30-10:00 | Simulation sub-committee summer meeting | Aleksandar Stevanovic, Chairman |
| 10:00-10:30 | Traffic flow characteristics in co-ordinated signal systems | Nathan Gartner, Invited Speaker |

Coffee break

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| 11:00-12:40 | Origin-Destination Matrix Estimation | Hani Mahmassani, Chairman |
| | Synthetic O-D Estimation in Oversaturated Conditions using Optimized Path Characteristic Functions | Abbas, M. M., Adam, Z. |
| | Urban Dynamic Origin-Destination Matrices Estimation | Bert, E. Chung, E. Dumont, A.-G. |
| | A framework for the data-consistent deployment of urban micro simulations | Flötteröd, G., Bierlaire, M. |
| | How important is capturing congestion dynamics in dynamic OD estimation | Freidrix, R., Viti, F., Tampère, C. M. J. |
| | Addressing the o-d matrix correction effectiveness and the network coverage issues in within-day and day-to-day dynamics | Papola, A., Marzano, V., Simonelli, F. |

Lunch

Friday 9 July 2:10-4:30 pm - Verdi room

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| 2:10-2:40 | Update on Integrated Corridor Management and U.S. Data Programs | Robert Bertini, Invited Speaker |
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| 2:40-4:00 | Data Collection and Use - Part 2 | Reinhart Kuehne, Chairman |
| | Hysteresis Phenomena of a Macroscopic Fundamental Diagram in Freeway Networks | Geroliminis, N., Sun, J. |
| | Statistical distribution for inter and intra-platoon headways and platoon size using field data from highway bottlenecks | Ramezani, H., Benekohal, R. F., Avrenli, K. A. |
| | Driver characteristics and their impact on traffic hysteresis and stop-and-go oscillations | Ahn, S. Sadlamani, S. |
| | Lane changing patterns of ban and benefit: implication for multilane models | Patire, A., Cassidy, M. |
| | Methodology to estimate moving queue length and delay in highway bottlenecks | Ramezani, H., Benekohal, R. F., Avrenli, K. A. |

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| 4:00-4:30 | Closing | Jean-Baptiste Lesort |
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