# List of Papers of the
# International Symposium on Transportation and Traffic Theory (ISTTT)

***1st Meeting, 7-8 December 1959 (published 1961). Warren, MI, USA. Edited by R. Herman.***

1. **The Car-Road Complex.** J.B. Bidwell.
2. **Some Problems in Intersection Traffic Control.** D.L. Gerlough.
3. **Traffic Flow with Pre-Signals and the Signal Funnel.** W. von Stein.
4. **The Distribution of Traffic on a Road System.** J.G. Wardrop.
5. **The Relative Distribution of Households and Places of Work. A Discussion of the Paper by J.G. Wardrop.** M.H. Cohen.
6. **Multicopy Traffic Network Models.** A. Charnes and W.W. Cooper.
7. **On the Design of Communication and Transportation Networks.** W. Prager.
8. **Dynamic Behavior of Traffic with a Nonlinear Spacing-Speed Relationship.** E. Kometani and T. Sasaki.
9. **Single-Lane Traffic Theory and Experiment.** Robert Herman and R. B. Potts.
10. **Acceleration Noise and Clustering Tendency of Vehicular Traffic.** E. W. Montroll.
11. **A Boltzmann-like Approach to the Statistics Theory of Traffic Flow.** I. Prigogine.
12. **Traffic Flow Treated as a Stochastic Process.** A.J. Miller.
13. **Experiments on Single-Lane Flow in Tunnels.** L.C. Edie and R.S. Foote.
14. **A Theory of Traffic Flow in Tunnels.** G.F. Newell.
15. **Simulation of Bottlenecks in Single-Lane Traffic Flow.** W. Helly.

***2nd Meeting, 25-27 June 1963 (published 1965). London, UK. Edited by J. Almond.***

1. **Car Following and Steady State Flow.** R. Herman and R.W. Rothery.
2. **On a Mathematical Function of Traffic Flow Theory.** R.M. Oliver, B. Catoire and R.S. Skeates.
3. **Single Lane Saturated Flow – Starting Performance.** N. Forchhammer.
4. **Perpetual Factors in Car Following.** R.M. Michaels.
5. **Times Series Analysis as Applied to Traffic Flow,.** P.I. Welding.
6. **Instability in Dense Highway Traffic, A Review.** G.F. Newell.
7. **Single Lane Traffic Flow Control.** R.S. Foote.
8. **Experimental Speed/Flow Relations in a Single Lane.** J.G. Wardrop.
9. **On the Flow-Concentration Relationship for Traffic.** R.E. Franklin.
10. **Further Developments in the Boltzmann-like Theory of Traffic Flow.** I. Prigogine, R. Herman and R. Anderson.
11. **Discussion of Traffic Stream Measurements and Definitions.** L.C. Edie.
12. **Overtaking in Free Traffic.** W. Leutzbach and P. Egert.
13. **Some Delay-Flow Characteristics for Conflicting Traffic Streams.** D.J. Buckley and W.R. Blunden.
14. **Queuing at a Stop Sign.** D. Evans, R. Herman and G.H. Weiss.
15. **Queuing and Traffic Intersections.** A.G. Hawkes.
16. **A Computer Control System for Traffic Networks.** A.J. Miller.
17. **The Over-Saturated Intersection.** D.C. Gazis and R.B. Potts.
18. **Development of Traffic Signals for Area Traffic Control.** B.M. Cobbe.
19. **From the Laws of Traffic Flow to Traffic Cybernetics.** W. von Stein.
20. **Simulation of Traffic in a Large Network of Signalized Intersections.** D.L. Gerlough and F.A. Wagner Jr..

21. **Traffic and Simulation.** S.L. Levy, M. Carter, and A. Glickstein.
22. **A Simulation Program for Linked Traffic Signals.** J.G.F. Francis and R.S. Lott.
23. **An Urban Traffic Control Simulator.** S. Young Rhee.
24. **Efficiency in Road Traffic Flow.** W. Helly.
25. **The Analysis of Traffic Surveys by Electronic Computers.** V.E. Miller.
26. **The Problem of Careless Pedestrians.** A.J. Mayne.
27. **The Future of Traffic Flow Theory.** F.A. Haight.
28. **Some Unsolved Problems in Road Traffic Theory.** J.C. Tanner.
29. **Some Aspects of the Demand for Highway Travel.** M.J. Beckmann.
30. **An Economic Approach to Traffic Congestion.** G.J. Roth.
31. **Pricing the Use of the Roads – A Mathematical and Numerical Study.** A.J. Miller.
32. **Mathematical Description of Life in Settled Areas and Derivations of Plan Layout Thereof as a Problem of Theoretical Town Planning.** P. Freidrich.
33. **Traffic Flow During the Journey to Work in the Central Area of a Town which has a Rectangular Grid for its Road System.** R.J. Smeed and G.O. Jeffcoate.
34. **The Distances Between Pairs of Points in Forms of Simple Geometrical Shapes.** D. Fairthorne.

***3rd Meeting, June 1965 (published 1967). New York, NY, USA. Edited by L.C. Edie, R. Herman, R. Rothery.***

1. **Testing the Applicability of the Theory of Continuity on Traffic Flow.** W. Leutzbach.
2. **Propagation of Disturbances on Vehicle Platoons.** R. Herman and R. Rothery.
3. **Generation and Propagation of Stop-Start Traffic Waves.** L.C. Edie and E. Baverez.
4. **Density-Speed-Flow Dynamics in Single Lane Traffic Flow.** R.S. Foote and K.W. Crowley.
5. **A Model of Car Following Derived Empirically by Piece-Wise Regression Analysis.** A. Hanken and T.H. Rockwell.
6. **Single-Lane Traffic Flow on Circular and Straight Tracks.** R.E. Franklin.
7. **Acceleration Noise in a Congested Signalized Environment.** W. Helly and P.G. Baker.
8. **Local Steady State Theory and Macroscopic Hydrodynamics of Traffic Flow.** I. Prigogine, R. Herman and R. Anderson.
9. **Statistical Hydrodynamics of Traffic Flow.** R. Balescu, I. Prigogine, R. Herman and R. Anderson.
10. **Markov Renewal Models in Traffic Flow Theory.** W.S. Jewell.
11. **Interchange Spacing and Driver Behavior Effects on Freeway Operations.** T.W. Forbes, J.J. Mullin and M.E. Simpson.
12. **A Contribution of the Statistical Analysis of Speed Distributions.** J. Linder.
13. **A Statistical Analysis of Speed-Density Hypotheses.** J. Drake, J. Schofer and A. May.
14. **On the Stability of Vehicular Traffic Flow—A Phenomenological Viewpoint.** D.H. Evans.
15. **The Application of Erlang's Theory to the Calculation of Road Traffic Capacity.** T. Rallis.
16. **Queuing in Rural Traffic.** A.J. Miller.
17. **A Model for Overtaking on a Two-Lane Road with Limited Visibility.** J. Gustavsson.
18. **A Mathematical Model for Traffic on a Two Lane Road.** S. Erlander.
19. **Convergence and Invariance Questions for Road Traffic with Free Overtaking.** T. Thedéen.
20. **Statistical Experiments with a Two-Lane Flow Model.** R.M. Oliver and T. Lam.
21. **Optimum Assignment of a Reversible Lane in an Oversaturated Two-Way Traffic link.** D.C. Gazis.
22. **Methods for Describing Time-Dependent Waits at Traffic Merges.** D.P. Gaver, Jr..
23. **Limit Theorems for the Output of Certain Types of Traffic Queues.** M.F. Neuts.

24. **The Estimation of Origin-Destination Trips Using a Transition Matrix Method.** E. Kometani.
25. **A Theoretical Model of Commuter Traffic in Towns.** R.J. Smeed.
26. **Traffic Assignment – The ATCODE Model.** B. Roy and H. Le Boulanger.
27. **Testing a Traffic Assignment Algorithm.** K.R. Overgaard.
28. **Traffic Assignment with Flow-Dependent Journey Times.** J. Almond.
29. **Investment in a Network to Reduce the Length of the Shortest Route.** T.M. Ridley.
30. **Sky Count Measurement of Urban Congestion and Demand.** T.D. Jordan.
31. **Optimal Policies for the Control of an Undersaturated Intersection.** R.B. Grafton and G.F. Newell.
32. **Analysis of a Computer Control of an Isolated Intersection.** M.C. Dunne and R.B. Potts.
33. **The Delay Problem for Crossing an n Lane Highway.** D.C. Gazis, G.F. Newell, P. Warren and G.H. Weiss
34. **Pedestrian Queuing at an n Lane Intersection.** G.H. Weiss.
35. **On the Theory of Deterministic Cyclic Traffic Flows in Networks.** W.R. Blunden and R.L. Pretty.
36. **Intersection Control by Vehicle-Actuated Signals.** R.W.J. Morris and P.G. Pak-Poy.
37. **A Mixed-Integer Linear Program for Synchronizing Traffic Signals for Maximal Bandwidth.** J.D.C. Little.
38. **Mean Waiting Time at an Intersection.** P.H. Fargier.
39. **Numerical Results for Queuing for Gaps in a Traffic Stream.** J.W. Cohen and S.K. de Lange.
40. **The Optimum Bus Service: A Theoretical Model for Large Uniform Urban Area.** E.M. Holyrod.
41. **A Traffic Simulator with Minimum Hardware.** F.G. Heath.
42. **On Optimal Tolls for Highways, Tunnels, and Bridges.** M.J. Beckmann.
43. **A Behavioral-Specific Component to the System Construct for Traffic Flows.** J.B. Ellis and D.N. Milstein.
44. **The Importance of Traffic Problems in the Economic Comparison of Two Urban Planning Alternatives.** R. Loue, M. Gauthier, C. Scherrer and M. Naim.
45. **A Rostering Problem in Transportation.** B.T. Bennett and R.B. Potts.

***4th Meeting, 19-21 June 1968 (published 1969). Karlsruhe, Germany. Edited by Wilhelm Leutzbach.***

1. **A Study of Driver-Aided Car Following.** R.E. Fenton and W.B. Montano.
2. **Some Aspects of the Stability of Traffic Flow.** J. Treiterer.
3. **Frequency and Amplitude Dependence of Disturbances in a Traffic Stream.** R. Herman and R. Rothery.
4. **An Experimental Analysis of Single-Lane Time Headways in Freely Flowing Traffic.** L. Breiman, A.V. Gafarian, R. Lichtenstein and V.K. Murthy.
5. **The Hyperlang Probability Distribution – A Generalized Traffic Headway Model.** R.F. Dawson.
6. **Evaluation of Single- and Multi-Regime Traffic Flow Models.** A.D. May and H.E.M. Keller.
7. **Control of the Lincoln Tunnel Traffic by an On-Line Digital Computer.** D.C. Gazis, B.T. Bennett, R.S. Foote and L.C. Edie.
8. **On some Theoretical Traffic Problems.** J. Gustavsson.
9. **On a Stochastic Study of Highway Traffic.** K.S.S. Iyer and K.B. Maheswaran Nambudripad.
10. **On a Model for Rural Traffic on a Two-Lane Road.** S. Erlander.
11. **Simulation of Traffic Flow on Upgrades of Federal Expressways in Germany.** G. Hoffmann.
12. **Traffic Signal Synchronization of High Flows on a Two-Way Street.** G.F. Newell.

13. **Dispersal of Vehicle Platoons Downstream of a Traffic Signal – Application of a Simulation Model.** R. Wiedemann.
14. **An Analysis of Delays to Vehicle Platoons at Traffic Signals.** R.E. Allsop.
15. **A Traffic-Flow Model for Signalized Street Networks.** R. Böttger.
16. **A New Approach to Traffic-Actuated Computer Control of Intersections.** J.D. van Zijverden and H. Kwakernaak.
17. **Some Results for a Deterministic Model of an Element of a Traffic Signals System.** D.J. Buckley, Y.F. Leong and C.K. Ong.
18. **Analysis of Required Main-Stream Headways at Autobahn Entrance Ramps.** F.J. Breuer.
19. **Delays at Pedestrian Crossing of Push-Button Type.** T. Thedéen.
20. **Some Problems of Inference Arising from the Fitting of Mathematical Models to an Unsignalized Priority Intersection.** D.H. Reid.
21. **'TRANSYT' – Traffic Network Study Tool.** D.I. Robertson.
22. **Traffic Simulation.** R. Sagen.
23. **Simulation of Traffic Flow through Large Traffic Nets.** W.F. Schalkwijk.
24. **Optimal Networks Joining n Points in a Plane.** W.A. Horn.
25. **The Comparative Evaluation of Idealized Road Networks.** J.C. Tanner.
26. **Routing Traffic in a Square Town to Minimize Route-Crossings.** E.M. Holroyd.
27. **Minimum-Cost Paths in Urban Areas.** J.G. Wardrop.
28. **A Mathematical Model for Trip Distribution.** R.B. Potts and P.S. Loubal.
29. **A Traffic Assignment Method, M. Bruynooghe.** A. Gibert and M. Sakarovitch.
30. **Probabilistic Models for Trip Distribution.** Tsuna Sasaki.
31. **Multiple Route Assignment and its Application to Capacity Restraint.** J.E. Burrell.
32. **Some Comments on the Traffic Assignment Problem.** J.M.S. Simões Pereira.
33. **Concept of a Traffic Management System; Experiences Gained from the ADECODE Traffic Assignment Model.** H. Le Boulanger and P. Lissarague.
34. **Allocation of Route Service in a Transportation Network.** W.S. Jewell.
35. **On the Definition of Characteristics of Traffic Flow.** G. Tournerie.
36. **On a Useful Probability Distribution for Partly Linked Traffic.** F. Jacobs.
37. **Modal Split Analysis and the Programming of Transportation Systems.** M.J. Beckmann.
38. **Obtaining Optimal Estimates of Nonresidential Trip Generation.** J.W. Dickey.
39. **Dispatching Policies for Controlled Systems.** E.F. Bisbee, J.W. Devanney, D.E. Ward, R.J. von Saal and S. Kuroda.
40. **Traffic Flow in Ramp Parking Facilities.** G. Heymann.
41. **Distances between Stops on Transport Services Minimizing Travel Times.** A.G.M. Landau.

***5th Meeting, 16-18 June 1971 (published 1972). Berkeley, CA, USA. Edited by Gordon F. Newell.***

1. **The Starting Characteristics of Automobile Platoons.** Robert Herman, Tenny Lam, and Richard Rothery.
2. **Some Properties of the Fundamental Relations of Traffic Flow.** C.C. Wright.
3. **On Vehicle Longitudinal Dynamics.** James G. Bender and Robert E. Fenton.
4. **Car Following and Spectral Analysis.** John N. Darroch and Richard Rothery.
5. **A Study of Individual Journey Series: An Integrated Interpretation of the Transportation Process.** Velibor Vidakovic.
6. **Modal Choice in Urban Areas.** C.G.B. Mitchell and J.M. Clark.
7. **Minimizing Economic Segregation Through Transit System Changes: A Goal Programming Approach.** John W. Dickey.
8. **A Critique of Entropy and Gravity in Travel Forecasting.** Martin J. Beckmann and Thomas F. Golob.
9. **Estimation of Person Trip Patterns Through Markov Chains.** Tsuna Sasaki.

10. **A New Look at the Traffic Assignment Problem.** I. Jeevanantham.
11. **Equilibrium and Marginal Cost Pricing on Road Network with Several Traffic Flow Types.** Maurice Netter.
12. **A Study of the Travel Patterns in a Corridor with Reference to the Assignment Principles of Wardrop.** Sam Yagar.
13. **Probabilistic Aspects of Traffic Assignment.** Heinz Beilner and Friedrich Jacobs.
14. **Theory of Traffic Assignment to a Road Network.** Tetsuzo Hoshino.
15. **Nine Estimators of Gap-Acceptance Parameters.** Alan J. Miller.
16. **Theoretical Analysis of Expressway Ramp Merge Controls as Single-Server and Tandem Queues.** Allan Marcus.
17. **Sensitivity of Delay at Fixed Time Traffic Signals to Small Errors in the Observations Used for Calculating the Signal Settings.** Richard E. Allsop.
18. **On-Line Feedback Control of Offsets for Area Control of Traffic.** Masaki Koshi.
19. **Optimal Synchronization of Traffic Signal Networks by Dynamic Programming.** Nathan Gardner.
20. **Synchronization of Traffic Signals in a Network for Loss Minimizing Offsets.** Iwao Okutani.
21. **Network Flow Model of the Australia-Europe Container Service.** K.J. Noble and R.B. Potts.
22. **A Theoretical Study of Bus and Car Travel in Central London.** F.V. Webster and R.H. Oldfield.
23. **Public Transportation Line Positions and Headways for Minimum Cost.** Bernard F. Byrne and Vukan R. Vuchic.
24. **Study of a Collective Taxi System.** P.H. Fargier and M. Cohen.
25. **Investigation of Sorting and Train Formation Schemes for a Railroad Hump.** M.W. Siddiqee.
26. **A Strategic Model for Urban Transport Planning.** J.C. Tanner.
27. **Decentralization: A Mathematical Explanation.** Rodney J. Vaughan.
28. **Optimal Form of a Class of Collection-Distribution Networks.** Ezra Hauer.
29. **Minimum Cost Paths When the Cost Per Unit Length Depends of Location and Direction.** John G. Wardrop.
30. **Urban Density Models.** C. Pearce, Pippa Simpson and W. Venables.

***6th Meeting, 26-28 August 1974. Sydney, Australia. Edited by D.J. Buckley.***

1. **The Hysteresis Phenomenon in Traffic Flow.** Joseph Treiterer and Jeffrey A. Myers.
2. **Stability of Vehicle Platoons.** Uwe Köhler.
3. **Trip Time Characteristics of Journeys to and from Work.** Robert Herman and Tenny-Lam.
4. **Definitions and Relationship for Three Different Time Intervals for Delayed Vehicles.** Wilhelm Leutzbach and Uwe Köhler.
5. **Capacity Funnels Near On-Ramps.** D.J. Buckley and Sam Yagar.
6. **Freeway Priority Entry Control to Favor Multi-Passenger Vehicles.** Khosrow Ovaici and Adolf D. may.
7. **Determination of Equilibrium Conditions for Traffic on a Two-Lane Road.** P.G. Gipps.
8. **Queues and Overtakings on Two-Lane Roads.** Friedrich Jacobs.
9. **Relation Between Space-Time Parameters of Traffic Flow and Locally Determined Parameters on Two-Lane Rural Highways.** W. Brilon.
10. **Effect of Stochastic Traffic Flow on Perceived Noise.** Allan H. Marcus.
11. **An Investigation of Practicability of Some Traffic Flow Models.** V.F. Babkov and V.V. Silyanov.

12. **Location and Capacity of Unsignalized Exits and Crossings Inbetween Coordinated Signalized Intersections.** Ezra Hauer.
13. **Bus Priority in a Network of Fixed Time Signals.** D.I. Robertson and R.A. Vincent.
14. **Dynamic Allocation of Parallel Congested Traffic Channels.** Kai-Ching Chu and Denos C. Gazis.
15. **A Gravity Model for Trip Distribution.** Shogo Kawakami.
16. **Some Possibilities for Using Traffic Control to Influence Trip Distribution and Route Choice.** Richard E. Allsop.
17. **A Harmonic Series Model of the Trip Chains.** Velibor S. Vidakovic.
18. **Estimating Daily Traffic Totals from Incomplete Data.** Christopher Wright.
19. **Transport Demand Models Based on Personal Characteristics.** A.J. Harris and J.C. Tanner.
20. **Entropy and Utility in Traffic Modeling.** Stein Hansen.
21. **Traveler Decisions and Traffic Flows: a Behavioral Theory of Network Equilibrium.** Martin J. Beckmann and Thomas F. Golob.
22. **Equilibrium Conditions in Traffic Assignment.** K.M. Anantharamaiah.
23. **Traffic Assignment by Analogy to Electric Circuit.** Tsuna Sasaki and Hiroshi Inouye.
24. **The Effect of Queuing on Traffic Assignment in a Simple Road Network.** V.F. Hurdle.
25. **The Effectiveness of Car Pools in Urban Areas.** Elizabeth Cousins.
26. **Optimal Network Geometry.** G.F. Newell.
27. **A Mathematical Programming Model for Bus traffic in a Network.** S. Erlander and S. Schéele.
28. **Minimum Fleetsize Models for Transportation Systems.** F.J.M. Salzborn.
29. **A method of Planning Trains on a General Yard Network.** Shigemichi Suzuki.
30. **Urban Railway Capacity in Peak Periods.** Phillip Rice.
31. **The Effects of Social and Economic Variables on Choice of Travel Model for the Work Trips.** Peter R. Stopher and Arnim H. Meyburg.
32. **Estimation of Person Trip Patterns and Modal Split.** Katsunao Kondo.
33. **Travel by a Combination of Modes.** P.B. Goodwin.
34. **Discouragement Queuing Models for Single Berth Bulk-Commodity Ports.** S.G. Gooneratne and D.J. Buckley.
35. **Optimal Elevator Control Using On-Line Computer to Divide Building into Floating Equal-Interval Zones.** D. Levy, D. Pessen and J. Ben Uri.

***7th Meeting, 14-17 August 1977. Kyoto, Japan. Edited by Tsuna Sasaki and Takeo Yamaoka.***

1. **Traffic in a Linear Town.** R.J. Smeed.
2. **Analysis of Car-Following Experiments Employing Spectral Analysis.** Robert Herman, Richard Rothery and Ronald G. Rule.
3. **An Analysis and Investigation of Philosophical Contrasts in Traffic Models.** Sam Yager.
4. **Description of Traffic Flow by the Process of Slowness.** W. Brilon.
5. **Traffic Flow in Upgrade-Bottlenecks.** W. Leutzbach and R. Weidemann.
6. **Studies of a Platoon Dispersion Model and Its Practical Implication.** Joseph K. Lam.
7. **A Time0Sequence Analysis for a Two-Regime Traffic Flow Model.** Avishai Ceder.
8. **A Non-Linear Traffic Model and Practical Capacity on Snowy and Icy Surface.** Keiichi Sato and Hideo Igarashi.
9. **The Impact of Dynamic Effects of Traffic Flow on the Steady-State Speed-Density Characteristic.** Michael Cremer and Hartmut Keller.
10. **Superimposed Alternating Renewal Streams and Delay Models Involving Multi-Lane Major Road Traffic at an Uncontrolled Intersection.** C.E.M. Pearce.
11. **Priority for Buses at Signal-Controlled Junctions: Some Implications for Signal Timings.** Richard E. Allsop.

12. **Time-Inhomogeneous Signalized Intersection as a Discrete Infinite Dam.** Do Le Mihn and W.R. Blunden.
13. **Traffic Signals Synchronization for an Oversaturated Network.** Iwao Okutani.
14. **Stochastic Simulation of Traffic Flow as a Complex System.** V.V. Silyanov.
15. **The Effect of Queues on Traffic Assignment to Freeways.** G.F. Newell.
16. **Demand Predictors for Computerized Freeway Control Systems.** Menahem Eldor.
17. **The Interpretation of Vehicle Detector Output by Canonical Variates Analysis.** P.G. Gipps.
18. **Discrete Time Series Models of a Freeway Density Process.** A.V. Gafarian, J. Pahl and T.L. Ward.
19. **Development and Application of Traffic Management Models – An Executive Summary.** Adolf. D. May, Thomas J. Clausen and Abraham J. Kruger.
20. **Basic Study on Expressway Traffic Volume Measurement by Detectors.** Yasuji Makigami.
21. **Decentralized Real-Time Control of Congested Traffic Networks.** Kai-Ching Chu.
22. **A Mathematical Analysis of Route Control.** Rahmi Akcelik.
23. **A Network Theoretic Formulation and Algorithms for the Traffic Assignment Problems.** Yoshikazu Nishikawa and Ichiro Nakahori.
24. **The Calculation of Mutual Consistent Signal Settings and Traffic Assignment for a Signal-Controlled Road Network.** J.A. Charlesworth.
25. **A Traffic Assignment Model for Mixed Traffic Consisting of Slow and Fast Vehicles.** K.M. Anantharamaiah.
26. **Analysis and Control of Transportation Networks by Frank-Wolfe Decomposition.** Nathan H. Gartner.
27. **Algorithms for Exact Solutions and Approximative Solutions on the Optimal Transportation Network with an Application.** Toshiro Edamura and Hideo Moritsu.
28. **Mathematical Programming and Constraints in Strategic Lane Use/Transport Planning.** J.A. Black and W.R. Blunden.
29. **Assignment of Buses in a Coordinated Rail and Bus Transit System.** S. Chandana Wirasinghe.
30. **Optimum Location of Stops on a Bus Route.** R.J. Vaughan and E.A. Cousins.
31. **An Analysis of Passenger Queues at Stations in Series.** Masanobu Watanabe, Hideo Miyahara and Toshiharu Hasegawa.
32. **An Approximate Analytic Model of Many-To-One Demand Responsive Transportation Systems.** Carlos F. Daganzo, Chris T. Hendrickson and Nigel H.M. Wilson.
33. **Practical urban Railway Capacity – A World Review.** Phillip Rice.
34. **Allocation and Pricing in Public Transportation and the Free Rider Theorem.** Martin J. Beckmann.
35. **Man-Machine System for Merchant Fleet Operation Scheduling.** V.D. Levy, S.P. Lvov and S.E. Lovetsky.
36. **Statistical Analysis of Travel Behavior: Some Methodological Considerations.** Heinz Hautzinger.
37. **The Newton-Kantorovich Method for Solving the Gravity Model in Traffic Planning.** Sven Erlander.
38. **Dynamic Models of Modal Choice.** M.R. Wigan and N.J. Paulley.
39. **A Quantified Description of Risky Pedestrian Behavior at Signalized Intersections.** Hans-Georg Retzko and Peter Häckelmann.
40. **A Distance Parameter of the Trip-Chain Process.** Velibor S. Vidakovic.

***8th Meeting, 24-26 June 1981 (published 1983). Toronto, Canada. Edited by V.F. Hurdle, E. Hauer, and G.N. Steuart.***

1. **A New Framework for the Microeconomic Analysis and Classification of Transportation Costs.** Alan Abouchar.
2. **Point Process models for Freeway Incident Detection.** Samir A. Ahmed and Allen R. Cook.
3. **On Network Equilibria with Generalized Cost Functions.** Andre Babin, Michael Florian, and Heinz Spiess.
4. **Fundamental Economic Analysis for Transit Routes: Demand-Cost Relationships.** James H. Banks.
5. **The Accuracy of Gravity Model Parameter Estimates.** Michael G.H. Bell.
6. **A Decision-Making Framework for the Evaluation of Climbing Lanes on Two-Lane Two-Way Rural Roads.** Jan L. Botha and Adolf D. May.
7. **Dynamic Identification of Flows from Traffic Counts at Complex Intersection.** Michael Cremer and Hartmut Keller.
8. **Convergence of a Network Decomposition Algorithm for the Traffic Equilibrium Model.** Stella Dafermos.
9. **Parking Studies, Gap Acceptance and the Intervening Opportunities Model: A Unified Quick Calibration/Estimation.** Carlos F. Daganzo.
10. **Gap Acceptance: Myth and Reality.** J. Darzentas.
11. **Influence of Vehicle size and Performance on Intersection Saturation Flow.** Leonard Evans and Richard W. Rothery.
12. **Effects of the Choice of Departure Time on Road Traffic Congestion: Theoretical Approach.** Paul-Henri Fargier.
13. **Optimal Station Location for a Two Hierarchy Transit System.** Masaharu Fukuyama.
14. **Waiting to Cross a Major Stream at an Uncontrolled Road Junction.** John C. Golias.
15. **Characteristics of Travel Time and Dynamic User Equilibrium for Travel-to-Work.** Chris Hendrickson, Daniel Nagin, and Edward Plank.
16. **Gravity Model Fitting with Both Origin-Destination Data and Modeled Trip-End Estimates.** Howard R. Kirby and John D. Murchland.
17. **A Time Dependent Markov Renewal Model of Trip Chaining.** Ryuichi Kitamura and Tenny N. Lam.
18. **Some Findings and an Overview on Vehicular Flow Characteristics.** M. Koshi, M. Iwasaki, and I. Ohkura.
19. **On a Simulation Model for the Traffic Stream in a Freeway Merging Area.** Yasuji Makigami, Tsunehiko Nakanishi, Masahito Toyama, and Ryoichi Mizote.
20. **An Analysis of Heuristics for the Continuous Network Design Problem.** Patrice Marcotte.
21. **Blocking Effects for Synchronized Signals.** G.F. Newell.
22. **A Theoretical Study of Traffic Assignment and Traffic Control.** M.J. Smith.
23. **The Garage Constrained-Balanced Vehicle Schedule Minimum Fleet Size Problem.** Helman I. Stern and Avishai Ceder.
24. **Methods of Forecasting Kilometers per Car.** J.C. Tanner.
25. **Saturation Flow at Signalized Intersections through a Magnifying Glass.** Stan Teply.
26. **Computer Simulation as an Aid to the Design of Priority Intersections.** Marian Tracz.
27. **Validation of the ME2 model for Estimating Trip Matrices from Traffic Counts.** D. Van Vliet and L.G. Willumsen.
28. **Some Improvements in the Estimation of an OD Matrix from Traffic Counts.** Henk J. Van Zuylen.
29. **Hysteresis and Collapse: a Theory of Parking Enforcement.** Christopher Wright.

*9th Meeting, 11-13 July 1984. Delft, Netherlands. Edited by J. Volmuller and R. Hamerslag.*

1. **An Approximative Analysis of the Hydrodynamic Theory on Traffic Flow and a Formulation of a Traffic Simulation Model.** Tsuna Saski, Masaharu Fukuyama and Yoshiharu Namikawa.
2. **Macroscopic Freeway Model for Dense Traffic – Stop-Start Waves and Incident Detection.** Reinhart D. Kühne.
3. **Headway Distribution Model Based on the Distinction Between Leaders and Followers.** Takeshi Chishaki and Youichi Tamura.
4. **DYNEMO: A Model for the Simulation of Traffic Flow in Motorway Networks.** Thomas Schwerdtfeger.
5. **Improved Continuum Models of Freeway Flow.** Panos G. Michalopoulos and Dimitrios E. Beskos.
6. **Delay at a Junction where there is Priority for Buses.** Benjamin G. Heydecker.
7. **Study and Numerical Modeling of Non-Stationary Traffic Flow Demands at Signalized Intersection.** Janusz Chodur and Marian Tracz.
8. **A Traffic Flow Model With Time Dependent O-D Patterns.** Rodney Vaughan, V.F. Hurdle and Ezra Hauer.
9. **Evaluation of Dimensionality Reduction on Network Traffic Pattern Recognition.** Shih-Miao Chin and Amir Eiger.
10. **Optimal Signal Controls on Congested Networks.** Caroline S. Fisk.
11. **Stability and Sensitivity Analysis for the General Network Equilibrium-Travel Choice Model.** Stella Dafermos and Anna Nagurney.
12. **Bounding the Solution of the Continuous Equilibrium Network Design Problem.** Patrick T. Harker and Terry L. Friesz.
13. **Equilibrium Flows in a Network with Congested Links.** Iwao Okutani.
14. **A Descent Algorithm for Solving a Variety of Monotone Equilibrium Problems.** M.J. Smith.
15. **Modeling Inter Urban Route Choice Behavior.** M. Ben-Akiva, M.J. Bergman, A.J. Daly and R. Ramaswamy.
16. **Optimal Transit Timetables for a Fixed Vehicle Fleet.** Avishai Ceder and Helman I. Stern.
17. **The Dynamic Vehicle Allocation Problem with Uncertain Demands.** Warren B. Powell, Yosef Sheffi and Sebastien Thiriez.
18. **The Prediction of Interregional Goods Vehicle Flows: Some New Modeling Concepts.** Heinz Hautzinger.
19. **Estimating Time-dependent Trip Matrices from Traffic Counts.** L.G. Willumsen.
20. **Matrix Entry Estimation Errors.** Chris Hendrickson and Sue McNeil.
21. **A Systems Dynamics Approach to the Estimation of Entry and Exit OD Flows.** Michael Cremer and Hartmut Keller.
22. **Log-Linear Models for the Estimation of Origin-Destination Matrices from Traffic Counts: An Approximation.** Michael G.H. Bell.
23. **Transferability of Disaggregate Trip Generation Models.** Geoffrey Rose and Frank S. Koppelman.
24. **A Model of Constrained Binary Choice.** Ryuichi Kitamura and Tenny N. Lam.
25. **Estimation of Disaggregate Regression Models of Person Trips Generation with Multiday Data.** Frank S. Koppelman and Eric I. Pas.
26. **Disaggregate Models of Mode Choices: An Assessment of Performance and Suggestions for Improvement.** Janusz C. Supernak.
27. **Models of Employee Work Schedule.** Paul P. Jovanis and Anthony Moore.

***10th Meeting, 8-10 July 1987. Cambridge, MA, USA. Edited by Nathan H. Gartner and Nigel H.M. Wilson.***

1. **Performance of Urban Traffic Networks.** Hani S. Mahmassani, James C. Williams and Robert Herman.
2. **Queue Evolution on Freeways Leading to a Single Core City During the Morning Peak.** Masao Kuwahara and Gordon F. Newell.
3. **Analysis of the Effects of Parameter Estimation Error on Transportation Network Equilibrium Models.** Geoffrey Rose, Frank S. Koppelman and Mark S. Daskin.
4. **Traffic Control and Traffic Assignment in a Signal-Controlled Network with Queuing.** M.J. Smith.
5. **A Theoretical Model to Calculate Speed Distribution as a Function of Density.** Dirk. Heidemann.
6. **Modeling and Study of Speed and Bunch Distributions Considering Fluctuations of Traffic Flow.** Youichi Tamura and Takeshi Chisyaki.
7. **Freeway Speed Distribution and Acceleration Noise – Calculations from a Stochastic Continuum Theory and Comparison.** Reinhart D. Kühne.
8. **Modeling and Filtering of Freeway Traffic Flow.** S.A. Smulders.
9. **Calculation of Signal Settings to Minimize Delay at a Junction.** Benjamin G. Heydecker and Ian W. Dudgeon.
10. **Calculations of Optimum Fixed-Time Signal Programs.** Klaus Möller.
11. **An Analysis of Traffic Performance of Major/Minor Priority Junctions With Non-Stationary Flow Demands.** Marian Tracz and Stanislaw Gaca.
12. **A Stochastic Environment for the Adaptive Control of Single Intersections.** B. Betrò, G. Schoen and M.G. Speranza.
13. **Simulation Study of OPAC: A Demand-Responsive Strategy for Traffic Signal Control.** Hobih Chen, Stephen L. Cohen, Nathan H. Gartner and Charles C. Liu.
14. **A Knowledge Based Expert System Architecture for Computer Aided Analysis and Design of Intersections.** Chris Hendrickson, Carlos Zozaya-Gorostiza and Sue McNeil.
15. **Real-Time Identification of O-D Network Flows from Counts and Urban Traffic Control.** Hartmut Keller and Gerhard Ploss.
16. **Theoretical Considerations for Signal Timing Plan Selection in UTCS First Generation Control Systems.** Shih-Miao Chin.
17. **Delay-Minimizing Control and Bandwidth-Maximizing Control of Coordinated Traffic Signals by Dynamic Programming.** Mamoru Hisai.
18. **The Interaction Between Signal Control Policies and Route Choice.** Michael J. Smith, Tom Van Vuren, Benjamin G. Heydecker and Dirck Van Vliet.
19. **Updating of Volume-Density Relationships for an Urban Expressway Control System.** H. Akahane and M. Koshi.
20. **Traffic Responsive Control of Freeway Networks by a State Feedback Approach.** Michael Cremer and Sigund Fleischmann.
21. **Fuzzy On-Ramp Control Model on an Urban Expressway and Its Extension.** Tsuna Sasaki and Takamasa Akiyama.
22. **The Kalman Filtering Approaches in Some Transportation and Traffic Problems.** Iwao Okutani.
23. **Equilibrium in Competitive Urban Mass Transportation Markets.** Patrick T. Harker and Seung-Chan Choi.
24. **Stochastic Properties of Flows in Freight Consolidation Networks.** Warren B. Powell and Hugo P. Simão.
25. **Methods to Combine Different Data Sources and Estimate Origin-Destination Matrices.** Moshe Ben-Akiva.

26. **Airport Terminal Geometries for Minimal Walking Distances.** S.C. Wirasinghe, S. Bandara and U. Vandebona.

*11th Meeting, 18-20 July 1990. Yokohama, Japan. Edited by Masaki Koshi.*

1. **A Theoretical Model to Calculate Time-Headway Distributions as a Function of Traffic Density.** D. Heidemann.
2. **A Merging Probability Calculation Method Considering Multiple Merging Phenomenon.** Y. Makigami and T. Matsuo.
3. **Roundabout Capacity and the Associated Delay.** R. Troutbeck.
4. **Modeling Crowd Behavior and Movement: Application to Makkah Pilgrimage.** S.A.H. Algadhi and H.S. Mahmasssani.
5. **Changes in Traffic Flow Due to Parking Activity in Urban Street.** F. Corriere and S. Saglimbeni.
6. **A Comprehensive Concept for Simultaneous State Observation, Parameter Estimation and Incident Detection.** M. Cremer and H. Schütt.
7. **A Mathematical Theory for Related Long Term Developments of Real Traffic and Safety.** S. Oppe and M.J. Koornstra.
8. **Measures of Accident Clustering.** A.J. Nicholson.
9. **On the Use of Accident and Conviction Counts to Trigger Action.** E. Hauer and K. Quaye.
10. **An Integrated System for Traffic Safety and Accident Analysis.** M.Y.K. Lau, A.D. May, R.N. Smith and H.F. Huang.
11. **Drivers' Speed Regulation When Negotiating Intersections.** F. Saad, P. Delhomme and P. Van Elslande.
12. **Emergency Maneuvers at Junctions Using a Driving Simulator.** G. Malaterre and D. Lechner.
13. **User-Equilibrium Traffic Assignment by Continuum Approximation of Network Flow.** T. Sasaki, Y. Iida and H. Yang.
14. **Two models for Predicting Dynamic Stochastic Equilibria in Urban Transportation Networks.** P.C. Vythoulkas.
15. **Dynamic Traffic Assignment and Dynamic Traffic Control.** M.J. Smith and M.O. Ghali.
16. **Application of Neural Network Model to Traffic Engineering Problem: Self-Organizing Approach to Traffic Management System.** T. Nakatsuji and T. Kaku.
17. **Parallel Distributed Processing on Neural Network for Some Transportation Equilibrium Assignment Problems.** T. Akamatsu, Y. Tsuchiya and T. Shimazaki.
18. **The Efficiency Principle and Combined Trip Distribution and Modal Split Models.** J.T. Lundgren.
19. **Design of Bus Routes for a Many-to-Few Travel Demand.** S. Y. Kho.
20. **Re-Examination of Newell's Dispatching Policy and Extension to a Public Bus Route with Many to Many Time-Varying Demand.** S.C. Wirasinghe.
21. **On the Coordination of Inbound and Outbound Schedules at Transportation Terminals.** C.F. Daganzo.
22. **Activity Analysis of the Hub and Spoke System.** M.J. Beckmann.
23. **Optimum Geometries for Satellite Type Airport Terminals.** S. Bandara.
24. **Comparisons of Transit Pricing Policy Based on Travel Distance.** J.H. Ling and M.A.P. Taylor.
25. **Temporal Variation of Bicycle Traffic Flows in The Netherlands.** C.F. Jaarsma.
26. **Estimation of Travel Demand Models from Multiple Data Sources.** M. Ben-Akiva and T. Morikawa.

27. **Heterogeneity and State Dependence in Household Car Ownership: A Panel Analysis Using Ordered-Response Probit Models with Error Components.** R. Kitamura and D.S. Bunch.
28. **The Use of Reserve Capacity and Delay as the Complementary Measures of Junction Effectiveness.** M. Tracz, J. Chodur and S. Gondek.
29. **Another Way of Optimal Signal Plan Calculation at an Isolated Intersection.** S. Reljić, S. Stojanović and M. Stojić.
30. **Decision of Timings of Signal Program Switching in Pretime Multi-Program Control.** M. Kuwahara, and M. Koshi.
31. **Traffic Control (at Alternate One-Way Sections) During Lane Closure Periods of a Two-Way Highway.** A. Ceder and A. Regueros.
32. **Modeling of Queue Probability Distribution at Traffic Signals.** P.S. Olszewski.
33. **Stochastic Delays on Signalized Arterial Highways.** G.F. Newell.
34. **A Continuous-Time Formulation for Traffic-Responsive Signal Control.** B.G. Heydecker.
35. **A Probabilistic Approach to the Optimization of Traffic Signal Settings in Discrete Time.** M.G.H. Bell.
36. **Motion – A New Traffic Control Concept Based on Real-Time Origin-Destination Information.** G. Ploss, P. Philips, D. Inaudi and H. Keller.

***12th Meeting, 21-23 July 1993. Berkeley, CA, USA. Edited by Carlos F. Daganzo.***

1. **Flow Around Distortions in a Dense Rectangular Grid Road Network – I Theory.** G.F. Newell.
2. **Flow Around Distortions in a Dense Rectangular Grid Road Network – II Examples.** G.F. Newell.
3. **Effects of Merging Lane Length on the Merging Behavior at Expressway On-Ramps.** H. Kita.
4. **Evaluation of Weaving Traffic Stream Using Merging Probability.** Y. Makigami and T. Iizuka.
5. **Approximate Reasoning Models for Route Choice Behavior in the Presence of Information.** T. Lotan and H.N. Koutsopoulos.
6. **Risk Assignment: A New Traffic Assignment Model Considering the Risk of Travel Time Variation.** T. Uchida and Y. Iida.
7. **A Variational Control Formulation of the Simultaneous Route and Departure-Time Choice Equilibrium Problem.** D. Bernstein, T.L. Friesz, R.L. Tobin and B.W. Wie.
8. **Dynamic Traffic Assignment with Arrival Time Costs.** B.N. Janson and J. Roble.
9. **Traffic Assignment, Traffic Control and Road Pricing.** M.O. Ghali and M.J. Smith.
10. **A Mathematical Model for Dynamic Traffic Assignment.** J.D. Addison and B.G. Heydecker.
11. **Dynamic Equilibrium Assignment with Queues for a One-to-Many OD Pattern.** M. Kuwahara and T. Akamatsu.
12. **Cost Based Approach to Scheduling Travel Time on a Public Transportation Route.** S.C. Wirasinghe.
13. **Scheduling Time Transfers at Hub Terminals.** R.W. Hall and C. Chong.
14. **High-Throughput Intermodal Container Terminals: Technical and Economic Analysis of a New Direct-Transfer System.** B.J. de Castilho.
15. **A Two-Objective Shipping Problem Between Two Points with Periodicity and Continuity Constraints.** A. Imai.
16. **Weighting Methods for Choice-Based Panels with Correlated Attrition and Initial Choice.** R. Kitamura, R.M. Pendyala and K.G. Goulias.
17. **Models of Delay and Accident Risk to Pedestrians.** L. Song, M.C. Dunne and J.A. Black.

18. **The Use of Forecasting Models in the Evaluation of Safety Interventions: A Theoretical Enquiry.** K. Quaye and E. Hauer.
19. **Improved Estimation of Loading Characteristics from Weigh-in-Motion Measurements.** M.M. Slavik.
20. **Reaction and Anticipation in the Car-Following Behavior.** H. Ozaki.
21. **Non-linearity Stochastics of Unstable Traffic Flow.** R.D. Kühne and R. Beckschulte.
22. **A Formulation for the Reaction Time of Traffic Flow Models.** J.M. del Castillo, P. Pintado and F.G. Benitez.
23. **On Predictive Control Schemes in Dynamic Rerouting Strategies.** M. Cremer, F. Meissner and S. Scherieber.
24. **Stochastic User Equilibrium Assignment and Iterative Balancing.** M.G.H. Bell, W.H.K.Lam, G. Ploss and D. Inaudi.
25. **A Statistical Theory for Estimation of Origin-Destination Parameters from Time-Series of Traffic Counts.** G.A. Davis.
26. **Dynamic Origin-Destination Matrix Estimation and Prediction for Real-Time Traffic Management Systems.** K. Ashok and M.E. Ben-Akiva.
27. **Alternative Approaches to Short Term Traffic Forecasting for Use in Driver Information Systems.** P.C. Vythoulkas.
28. **A Bayesian Approach to Update Traffic Flows from Traffic Counts.** M. Pursula and V. Pastinen.
29. **A Theoretical Model for Distributions of Speeds and Time-Headways on Two-Lane Roads.** D. Heidemann.
30. **Effects of the Platoon Dispersion on the Optimizing of Fixed-Time Signal Control in Road Networks.** H.G. Retzko and M. Schenk.
31. **Traffic Behavior During Lane Closure Periods of Two-Lane Road.** A. Ceder.
32. **The Characteristics of the Times Drivers are Stopped at Unsignalized Intersections.** R.J. Troutbeck.

***13th Meeting, 24-26 July 1996. Lyon, France. Edited by Jean-Baptiste Lesort.***

1. **Estimation of Dynamic O-D Distributions for Urban Networks.** G.L. Chang and X. Tao.
2. **Monitoring Traffic Load Profiles with Heterogeneous Data Source Configurations.** M. Cremer and S. Schrieber.
3. **Nonparametric Traffic Flow Prediction Using Kernal Estimator.** N.E. El Faouzi.
4. **A Basic Study of Expressway Travel Time Estimation Using a Bottleneck Simulation Model.** Y. Makigami, K. Taguro and M. Yamashita.
5. **A Continuous Time Link Model for Dynamic Network Loading Based on Travel Time Function.** V. Astarita.
6. **A Queuing Theory Approach to Speed-Flow-Density Relationships.** D. Heidemann.
7. **A New Approach to Problems of Traffic Flow Theory.** B.S. Kerner, P. Konhaüser and M. Shilke.
8. **Flows Around Distortions in a Dense Rectangular Grid Road Network III: Coupling of Cross-Flows.** G.F. Newell.
9. **A Time-Dependent Multi-Class Path Flow Estimator.** M.G.H. Bell, W.H.K. Lam and Y. Iida.
10. **A Formulation and Solution Algorithm for a Multi-Class Dynamic Traffic Assignment Problem.** B. Ran, H.K. Lo and D.E. Boyce.
11. **Implementation of an Efficient Algorithm for the Multiclass Assignment Problem.** P. Marcotte, S. Nguyen and K. Tanguay.
12. **Asymmetric Multiclass Traffic Assignment: A Coherent Formulation.** Ph. Toint and L. Wynter.

13. **Bayesian Theory and Cluster Analysis in the Identification of Accident Blackspots.** M. Trácz and M. Nowakowska.
14. **Choosing Comparison Groups for Road Safety Countermeasure Evaluation.** K. Quaye.
15. **Developing a Set of Fuel Consumption and Emissions Models for Use in Traffic Network Modeling.** M.A.P. Taylor and T.M. Young.
16. **Multi Sensor, Multivariate and Multiclass Incident Detection System for Arterial Streets.** N.E. Thomas.
17. **Stationary States in Stochastic Process Models of Traffic Assignment: A Markov Chain Monte Carlo Approach.** M.L. Hazelton, S. Lee and J.W. Polak.
18. **An Exact Expression of Dynamic Equilibrium.** B.G. Heydecker and J.D. Addison.
19. **A Distributed Algorithm for the Dynamic Traffic Equilibrium Assignment Problem.** M.B. Wilson and M.J. Smith.
20. **Congestion Pricing for Urban Bimodal Transportation Networks.** P. Ferrari.
21. **A Discrete-Continuous Analysis of Time Allocation to Two Types of Discretionary Activities Which Accounts for Unobserved Heterogeneity.** R. Kitamura, T. Yamamoto, S. Fujii and S. Sampath.
22. **The Theory and Practice of Dual Criteria Assignment Model With a Continuously Distributed Value-of-Time.** F.M. Leurent.
23. **Optimal Variable Road-Use Pricing on a Congested Network of Parallel Routes with Elastic Demand.** H.J. Huang and H. Yang.
24. **Models of Freeway Lane Changing and Gap Acceptance Behavior.** K.I. Ahmed, M.E. Ben-Akiva, H.N. Koutsopoulos and R.B. Mishalani.
25. **A Car-Following Model Based on Lighthill-Whitham Theory.** J.M. Del Castillo.
26. **Research Into Mixed Traffic Flow Characteristics by Means of Simulation.** V.V. Silyanov and O.I. Tonkonozhenkov.
27. **Public Transportation Assignment with Passenger Strategies for Overlapping Route Choice.** Y. Israeli and A. Ceder.
28. **Optimization of Train Timetables to Achiever Minimum Transit Times and Maximum Reliability.** A. Higgins, L. Ferrerira and E. Kozan.
29. **Multicriteria Optimal Control in a Network of Signalized Intersections.** S. Reljic.
30. **The Nature of Freeway Gridlock and How to Prevent It.** C.F. Daganzo.
31. **The Godunov Scheme and What it Means for First Order Traffic Flow Models.** J.P. Lebacque.
32. **The Generalized Bimodal Traffic Stream Model and Two-Regime Theory.** D.D. Rui, P. Nelson and A. Sopasakis.
33. **A Modified Logit Route Choice Model Overcoming Path Overlapping Problems. Specification and some Calibration Results for Interurban Networks.** E. Cascetta, A. Nuzzolo, F. Russo and A. Vitetta.
34. **Stochastic Optimization of Combined Traffic Assignment and Signal Control Junction Modeling.** S. Lee and M. Hazelton.
35. **Dynamic Dispatching Strategies Under Real-Time Information for Carrier Fleet Management.** A.C. Regan, H.S. Mahmassani and P. Jaillet.

***14th Meeting, 20-23 July 1999. Jerusalem, Israel. Edited by Avishai, Ceder.***

1. **Macroscopic Traffic Flow Models: A Question of Order.** J.P. Lebacque and J.B. Lesort.
2. **Macroscopic Multiple User-Class Traffic Flow Modeling: A Multilane Generalization Using Gas-Kinetic Theory.** S.P. Hoogendoorn and P.H.L. Bovy.
3. **The Chapman-Enskog Expansion: A Novel Approach to Hierarchical Extension of Lighthill-Whitham Models.** P. Nelson and A. Soposakis.
4. **The Lagged Cell-Transmission Model.** C.F. Dagazno.

5. **Observations at a Freeway Bottleneck.** M.J. Cassidy and R.L. Bertini.
6. **Flows Upstream of a Highway Bottleneck.** G.F. Newell.
7. **Theory of Congested Traffic Flow: Self-Organization Without Bottlenecks.** B.S. Kerner.
8. **A Merging-Giveway Behavior Model Considering Interactions at Expressway On-Ramps.** H. Kita and K. Fukuyama.
9. **Comparison of Results of Methods of the Identification of High-Risk Road Section.** M. Tracz and M. Nowakowska.
10. **Behavioral Adaptation and Seat-Belt Use: A Hypothesis Invoking Looming as a Negative Reinforcer.** A.H. Reinhardt-Rutland.
11. **Bi-Directional Emergent Fundamental Pedestrian Flows from Cellular Automata Microsimulation.** V.J. Blue and J.J. Adler.
12. **Flow Model and Performability of a Road Network Under Degraded Conditions.** Y. Asakura, M. Kashiwadani and E. Hato.
13. **A Sensitivity Based Approach to Network Reliability Assessment.** M.G.H. Bell, C. Cassir, Y. Iida and W.H.K. Lam.
14. **A Capacity Increasing Paradox for a Dynamic Traffic Assignment with Departure Time Choice.** T. Akamatsu and M. Kuwahara.
15. **A Dynamic Traffic Assignment Formulation that Encapsulates the Cell-Transmission Model.** H.K. Lo.
16. **Formulations of Extended Logit Stochastic User Equilibrium Assignments.** S. Bekhor and J.N. Prashker.
17. **A Doubly Dynamic Traffic Assignment Model for Planning Applications.** V. Astarita, V. Adamo, G.E. Cantarella and E. Cascetta.
18. **Route Flow Entropy Maximization in Origin-Based Traffic Assignment.** H. Bar-Gera and D. Boyce.
19. **The Use of Neural Networks for Short-Term Prediction of Traffic Demand.** J. Barcelo and J. Casas.
20. **Algorithms for the Solution of the Congested Trip Matrix Estimation Problem.** M. Maher and X. Zhang.
21. **Combining Predictive Schemes in Short-Term Traffic Forecasting.** N.E. El Faouzi.
22. **A Theoretical Basis for Implementation of a Quantitative Decision Support System – Using Bi-Level Optimization.** A. Clune, M. Smith and Y. Xiang.
23. **Macroscopic Modeling of Traffic Flow by an Approach of Moving Segments.** M. Cremer, D. Staecker and P. Unbehaun.
24. **Microscopic Online Simulation of Urban Traffic.** J. Esser, L. Neubert, J. Wahle and M. Schreckenberg.
25. **Modeling the Spill-Back of Congestion in Link Based Dynamic Network Loading Models: A Simulation Model With Application.** V. Adamo, V. Astarita, M. Florian, M. Mahut and J.H. Wu.
26. **Investigation of Route Guidance Generation Issues by Simulation with DynaMIT.** J. Bottom, M. Ben-Akiva, M. Bierlaire, I. Chabini, H. Koutsopoulous and Q. Yang.
27. **A New Feed-Back Process By Means of Dynamic Reference Values in Rerouting Control.** A. Poschinger, M. Cremer and H. Keller.
28. **Optimal Coordinated and Integrated Motorway Network Traffic Control.** M. Papageorgiou and A. Messmer.
29. **Progression Optimization in Large Scale Urban Networks: A Heuristic Decomposition Approach.** C. Stammatiadis and N.H. Gartner.
30. **Tolling at a Frontier: A Game Theoretic Analysis.** D.M. Levinson.
31. **Carpooling and Pricing in a Multilane Highway with High-Occupancy-Vehicle Lanes and Bottleneck Congestion.** H.J. Huang and H. Yang.

32. **Balance of Demand and Supply of Parking Spaces.** W.H.K. Lam, M.L. Tam, H. Yang and S.C. Wong.
33. **The Role of Lifestyle and Attitudinal Characteristics in Residential Neighborhood Choice.** M.N. Bagley and P.I. Mokhtarian.
34. **Planning of Subway Transit Systems.** S.C. Wirasinghe and U. Vandebona.
35. **Scheduling Rail Track Maintenance to Minimize Overall Delays.** A. Higgins, L. Ferreira and M. Lake.

***15th Meeting, 16-18 July 2002. Adelaide, Australia. Edited by Michael A.P. Taylor.***

1. **A Step Function for Improving Transit Operations Planning Using Fixed and Variable Scheduling.** A. Ceder.
2. **A Sensitivity-Based Solution Algorithm for the Network Model of Urban Taxi Services.** K.I. Wong, S.C. Wong , H. Yang and C.O. Tong.
3. **Transit Network Reliability: An Application of Absorbing Markov Chains.** M.G.H. Bell, J.D. Schmoecker, Y. Iida and W.H.K. Lam.
4. **Minimizing the Conflict Between Rail Operations and Infrastructure Maintenance.** M. Lake and L.J. Ferreira.
5. **Optimal Terminus Location for a Rail Line with Many-to-Many Travel Demand.** S.C. Wirasinghe, G.J. Quain, U. Vandebona and J.M.S.J. Bandara.
6. **Queue Discharge Flow and Speed Models for Signalized Intersections.** R. Akcelik and M. Besley.
7. **The Oversaturated Isolated Intersection.** G.F. Newell.
8. **Development and Implementation of an Adaptive Control Strategy in a Traffic Signal Network: the Virtual-Fixed-Cycle Approach.** N.H. Gartner.
9. **Unsignalized Intersections: A Third Method for Analysis.** W. Brilon and N. Wu.
10. **Supply Chain Networks with Multicriteria Decision Makers.** J. Dong, D. Zhang and A. Nagurney.
11. **Computerized Decision Support System for the Operational Management of Transportation of Sugar Cane.** R. Raicu and M.A.P. Taylor.
12. **Normative Pedestrian Behavior Theory and Modeling.** S. Hoogendorn and P.H.L. Bovy.
13. **Towards a Unified Approach to Causal Analysis in Traffic Safety Using Structural Causal Models.** G. Davis.
14. **Identifying Similarities and Dissimilarities Among road Accident Patterns.** M. Nowakowska.
15. **A Model to Estimate the Environmental Impact of Road Transport.** A. Alessandrini an M. Lemessi.
16. **Modeling Risk Taking Behavior in Queuing Networks with ARIS.** Y. Yin, W.H.K. Lam and H. Ieda.
17. **Modeling Dynamic Vehicle Routing and Scheduling with Real-Time Information on Travel Times.** E. Taniguchi, T. Yamada and M. Tameishi.
18. **Dynamic Equilibrium Network Design.** B. Heydecker.
19. **Algorithms for Solving the Probit Path-Based Stochastic User Equilibrium Traffic Assignment Problem with One or More User Classes.** A. Rosa and M. Maher.
20. **A Traffic Flow Model for Urban Traffic Analyses: Extensions of the LWR Model for Urban and Environmental Applications.** F. Giorgi, L. Leclercq and J.B. Lesort.
21. **Theory of Congested Highway Traffic: Empirical Features and Methods of Tracing and Prediction.** B. Kerner.
22. **Moving Bottlenecks: A Theory Grounded on Experimental Observation.** J.C. Muñoz and C.F. Daganzo.

23. **The Performance of Uncontrolled Merges Using a Limited Priority Process.** R.J. Troutbeck.
24. **Modeling of Freeway Ramp Merging Process Observed During Traffic Congestion.** M. Sarvi, A. Ceder and A. Kuwahara.
25. **A Game Theoretic Analysis of Merging-Giveway Interaction: A Joint Estimation Model.** H. Kita, K. Tanimoto and K. Fukuyama.
26. **Determination of Optimal Toll Level and Toll Locations of Alternative Congestion Pricing Schemes.** H. Yan, X. Zhang and H.J. Huang.
27. **Trip Travel Time Reliability in Degradable Transport Networks.** H.K. Lo.
28. **Optimal Road Tolls and Parking Charges for Balancing the Demand and Supply of Road Transport Facilities.** W.H.K. Lam, M.L. Tam and M.G.H. Bell.
29. **Coupling of Concurrent Macroscopic and Microscopic Traffic Flow Models Using Hybrid Stochastic and Deterministic Disaggregation.** A. Poschinger, R. Kates and H. Keller.
30. **Some Recent Development in Continuum Vehicular Traffic Theory.** M. Zhang and W.H. Lin.
31. **Short-Term Prediction of Traffic Flow Conditions in a Multilane Multiclass Network.** S. Hoogendorn, P.H.L. Bovy and H. Van Lint.
32. **Freeway Traffic Oscillations: Observations and Predictions.** M. Mauch and M.J. Cassidy.
33. **Mathematical Analysis of Non-Stationary Queues and Waiting Times in Traffic Flow with Particular Consideration of the Coordinate Transformation Technique.** D. Heidemann.
34. **A Two-Phase Extension of the LWR Model Based on the Boundness of Traffic Acceleration.** J.P. Lebacque.

***16th Meeting, 19-21 July 2005. College Park, MD, USA. Edited by Hani S. Mahmassani.***

1. **Bilevel Optimization of Prices in a Variety of Transportation Models.** M.J. Smith.
2. **A Sequential Experimental Approach for Analysis Second-Best Road Pricing With Unknown Demand Functions.** H. Yang, W. Xu and Q. Meng.
3. **Highway Space Inventory Control System.** D. Teodorović and P. Edara.
4. **Path Size and Overlap in Multi-Modal Transport Networks.** S. Hoogendoorn-Lanser, R. van Nes and P.H.L. Bovy.
5. **Pedestrian Dynamics and Evacuation: Empirical Results and Design Solutions.** D. Helbing, A. Johanssen and L. Buzna.
6. **An Empirical Assessment of Traffic Operations.** C. Chen, P. Varaiya and J. Kwon.
7. **Reliability of Freeway Traffic Flow: A Stochastic Concept of Capacity.** W. Brilon, J. Geistefeldt and M. Regler.
8. **A Critical Comparison of the Kinematic-Wave Model with Observational Data.** K. Nagel and P. Nelson.
9. **Average Velocity of Waves Propagating Through Congested Freeway Traffic.** B. Coifman and Y. Wang.
10. **Microscopic Three-Phase Traffic Theory and Its Applications for Freeway Traffic Control.** B. Kerner.
11. **A Behavioral Approach to Instability, Stop and Go Waves, Wide Jams and Capacity Drop.** C. Tampère, S. Hoogendoorn and B. van Arem.
12. **Controlling Traffic Breakdowns.** R. Kühne and R. Mahnke.
13. **Parameter Estimation and Analysis of Car-Following Models.** S. Hoogendoorn and S. Ossen.
14. **Modeling Impatience of Drivers in Passing Maneuvers.** M. Pollatschek and A. Polus.
15. **A Simulation Model for Motorway Merging Behavior.** J. Wang, R. Lie and F. Montgomery.
16. **Freeway Ramp Merging Process Observed in Congested Traffic: Lag Vehicle Acceleration Model.** M. Sarvi, A. Ceder and M. Kuwahara.

17. **A First-Order Macroscopic Traffic Flow Model for Mixed Traffic Including Moving Bottleneck Effects.** S. Chanut.
18. **A Variational Formulation of Kinematic Waves: Bottleneck Properties and Examples.** C.F Daganzo and M. Menedez.
19. **First-Order Macroscopic Traffic Flow Models: Intersection Modeling, Network Modeling.** J.P. Lebacque and M. Khoshyaran.
20. **Real-Time Estimation of Travel Times on Signalized Networks.** A. Skabardonis and N. Geroliminis.
21. **Calibration and Validation of Dynamic Traffic Assignment Systems.** R. Balakrishna, H. Koutsopoulos and M. Ben-Akiva.
22. **Non-Equilibrium Dynamic Traffic Assignment.** W.Y. Szeto and H.K. Lo.
23. **Precision of Predicted Travel Time, the Responses of Travelers, and Satisfaction in the Travel Experience.** S. Kikuchi, S. Mangalpally and A. Gupta.
24. **Behavioral Dynamics in Activity Participation, Travel, and Information and Communications Theory.** K. Goulias and T.G. Kim.
25. **Modeling the Joint Labor-Commute Engagement Decisions of San Francisco Bay Area Residents.** D.T. Ory and P.L. Mokhtarian.
26. **A Model of Daily Time Use Allocation Using Fractional Logit Methodology.** X. Ye and R. Pendyala.
27. **Efficient Estimation of Nested Logit Models Using Choice-Based Samples.** L.A. Garrow, F.S. Koppelman and B.L. Nelson.
28. **Functional Approximations to Alternative-Specific Constants in Time-Period Choice-Modeling.** S. Hess, J.W. Polak and M. Bierlaire.
29. **Project-Based Activity Scheduling for Person Agents.** E.J. Miller.
30. **Modeling Commercial Vehicle Empty Trips: Theory and Application.** J. Holguin-Veras, J.C. Zorrilla and E. Thorson.
31. **Rationality and Heterogeneity in Taxi Driver Decisions: Application of a Stochastic-Process Model of Taxi Behavior.** R. Kitamura and T. Yoshii.
32. **A Rolling-Horizon Approach to the Optimal Dispatching of Taxis.** M.G.H. Bell, K.I. Wong and A.J. Nicholson.
33. **Capacitated Arc Routing Problem with Extensions.** H. Qiao and A. Haghani.
34. **User-Equilibrium Route Set Analysis of a Large Road Network.** H. Bar-Gera and D. Boyce.
35. **Comparison of Static Maximum Likelihood Origin-Destination Formulations.** H. Rakha, H. Paramahamsan and M. von Aerde.
36. **A Time-Dependent Activity and Travel Choice Model with Multiple Parking Options.** H.J. Huang, Z.C. Li, W.H.K. Lam and S.C. Wong.
37. **Doubly Dynamic Equilibrium Distribution Approximation Model for Dynamic Traffic Assignment.** N.C. Balijepalli and D.P. Watling.
38. **A Combined Model of Housing Location and Traffic Equilibrium Problems in a Continuous Transportation System.** H.W. Ho and S.C. Wong.

***17th Meeting, 23-25 July 2007. London, UK. Edited by Richard E. Allsop, Michael G.H. Bell, and Benjamin G. Heydecker.***

1. **A New Concept and General Algorithm Architecture to improve Automated Incident Detection.** K. Zhang and M.A.P. Taylor.
2. **Understanding Traffic Breakdown: A Stochastic Approach.** R. Kühne, R. Manhke and J. Hinke.
3. **Optimal Single Route Transit Vehicle Scheduling.** A. Ceder.
4. **Variation of Value of Travel Time Savings over Travel Time in Urban Commuting: Theoretical and Empirical Analysis.** H. Kato.

5. **Anticipative Vehicle Control Algorithm Mitigating Temporal Information Delay.** Y. Liu and F. Dion.
6. **Reserve Capacity of a Signal-Controlled Network Considering the Effect of Physical Queuing.** C.K. Wong, S.C. Wong and H.K. Lo.
7. **Time Dependent Delay at Unsignalised Intersections.** W. Brilon.
8. **A Generalization of the Risk-Averse Traffic Assignment.** W.Y. Szeto, L. Obrien and M. O'Mahony.
9. **Dynamic Ramp Metering Strategies for Risk-Averse System Optimal Assignment.** T. Akamatsu and T. Nagae.
10. **Theoretical Bounds Of Congestion-Pricing Efficiency For A Continuum Transportation System.** H.W. Ho and S.C. Wong.
11. **Empirical Studies on Road Traffic Response to Capacity Reduction.** R. Clegg.
12. **Uniqueness of Equilibrium in Continuous Models for Dynamic Traffic Networks.** R. Mounce and M. Smith.
13. **Developing a Positive Approach to Travel Demand Analysis.** L. Zhang.
14. **On-line Ambulance Dispatching Heuristics with the Consideration of Triage.** K.I. Wong, F. Kurauchi and M.G.H. Bell.
15. **Properties of a Microscopic Heterogeneous Multi-anticipative Traffic Flow Model.** S. Hoogendoorn, S. Ossen and M. Schreuder.
16. **A Game Theoretical Approach for Modeling Merging and Yielding Behavior at Freeway On-Ramp Section.** H. Liu, W. Xin, Z.M. Adam and J.X. Ban.
17. **A General Modeling Framework for Travelers Day-to-Day Route Adjustment Processes.** F. Yan and H. Lui.
18. **A Theory on Modeling Collaboration in Logistics Networks: Combining Network Design Theory and Transaction Costs Economics.** B. Groothedde and P. Bovy.
19. **Random Supply and Strategic Behaviour in Static Traffic Assignment.** G. Bellei and G. Gentile.
20. **A Markov Process Model for Capacity-constrained Frequency-based Transit Assignment.** F. Teklu, D. Watling and R. Connors.
21. **The Co-evolution of Land Use and Road Networks.** D. Levinson, F. Xie and S. Zhu.
22. **Assessing Network Vulnerability of Degradable Transportation Systems: An Accessibility Based Approach.** A. Chen, S. Kongsomsaksakula, Z. Zhoua, M. Leea and W. Recker.
23. **Analysis of Dynamic System Optimum and Externalities with Departure Time Choice.** A.H.F. Chow.
24. **Stochastic Modelling and Simulation of Multi-lane Traffic.** N. Dundon and A. Sopasakis.
25. **The Lagrangian Coordinates and What It Means for First Order Traffic Flow Models.** L. Leclercq, J. Laval and E. Chevallier.
26. **Generic Second Order Traffic Flow Modelling.** J.P. Lebacque, S. Mammar and H. Haj-Salem.
27. **Bounding the Inefficiency of Toll Competition among Congested Roads.** F. Xiao, H. Yang and X. Guo.
28. **State Dependence in Driver Behaviour Models.** C. Choudhury, M. Ben-Akiva, T. Toledo, A. Rao and G. Lee.
29. **A Frequency Based Transit Model for Dynamic Traffic Assignment to Multimodal Networks.** L. Meschini, G. Gentile and N. Papola.
30. **Time-Differential Pricing of Road Tolls and Parking Charges in a Transport Network with Elastic Demand.** Z.C. Li, H.J. Huang, W.H.K. Lam and S.C. Wong.
31. **Commuting Equilibria on a Mass Transit System with Capacity Constraints.** Q. Tian, H.J. Huang and H. Yang.
32. **A Novel Fuzzy Logic Controller for Transit Preemption Signal.** Y.C. Chiou, M.T. Wang and L.W. Lan.

33. **A Robust Approach to the Continuous Network Design Problem with Demand Uncertainty.** Y. Yin and S. Lawphongpanich.
34. **A Computable Theory of Dynamic Congestion Pricing.** T. Friesz, C. Kwon and R. Mookherjee.
35. **Freeway Traffic Oscillations and Vehicle Lane-Change Maneuvers.** S. Ahn and M. Cassidy.
36. **On Path Marginal Cost and its Relation to Dynamic System-Optimal Traffic Assignment.** W. Shen, Y. Nie and H.M. Zhang.

***18th Meeting, 16-18 June 2009. Hong Kong. Edited by William H.K. Lam, S.C. Wong, and Hong K. Lo.***

1. **A Game Theoretic Approach to the Determination of Hyperpaths in Transportation Networks.** Jan-Dirk Schmöcker, Michael G.H. Bell, Fumitaka Kurauchi, Hiroshi Shimamoto.
2. **Network Equilibrium under Cumulative Prospect Theory and Endogenous Stochastic Demand and Supply.** Agachai Sumalee, Richard D. Connors, Paramet Luathep.
3. **Spatiotemporal Effects of Segregating Different Vehicle Classes on Separate Lanes.** Michael J. Cassidy, Carlos F. Daganzo, Kitae Jang, Koohong Chung.
4. **Microscopic Traffic Behaviour near Incidents.** Victor L. Knoop, Henk J. van Zuylen, Serge P. Hoogendoorn.
5. **Understanding Stop-and-Go Traffic in View of Asymmetric Traffic Theory.** Hwasoo Yeo, Alexander Skabardonis.
6. **A Stochastic α-Reliable Mean-Excess Traffic Equilibrium Model with Probabilistic Travel Times and Perception Errors.** Anthony Chen, Zhong Zhou.
7. **Equilibrium Trip Scheduling in Congested Traffic under Uncertainty.** Barbara W.Y. Siu, Hong K. Lo.
8. **Reliable a Priori Shortest Path Problem with Limited Spatial and Temporal Dependencies.** Yu (Marco) Nie, Xing Wu.
9. **Risk Averse Second Best Toll Pricing.** Xuegang (Jeff) Ban, Shu Lu, Michael Ferris, Henry X. Li.
10. **Cordon Pricing Consistent with the Physics of Overcrowding.** Nikolas Geroliminis, David M. Levinson.
11. **Build-operate-transfer Schemes for Road Franchising with Road Deterioration and Maintenance Effects.** Zhijia Tan, Hai Yang, Xiaolei Gu.
12. **Equilibria and Inefficiency in Traffic Networks with Stochastic Capacity and Information Provision.** Tian-Liang Liu, Hai-Jun Huang, Hai Yang, Xiaolei Gu.
13. **An Active-set Algorithm for Discrete Network Design Problems.** Lihui Zhang, Siriphong Lawphongpanich, Yafeng Yi.
14. **Multi-class Multi-modal Network Equilibrium with Regular Choice Behaviors: a General Fixed Point Approach.** Meng Xu, Ziyou Gao.
15. **Existence of Equilibrium in a Continuous Dynamic Queueing Model for Traffic Networks with Responsive Signal Control.** Richard Mounce.
16. **Harmonic Analysis and Optimization of Traffic Signal Systems.** Nathan H. Gartner, Rahul Deshpande.
17. **A Two-direction Method of Solving Variable Demand Equilibrium Models with and without Signal Control.** Mike Smith.
18. **Modeling Learning Impacts on Day-to-Day Travel Choice.** Ozlem Yanmaz-Tuzel, Kaan Ozbay.
19. **A Probit-based Joint Discrete-continuous Model System: Analyzing the Relationship between Timing and Duration of Maintenance Activities.** Xin Ye, Ram M. Pendyala.

20. **Bayesian Learning, Day-to-Day Adjustment Process, and Stability of Wardrop Equilibrium.** Shoichiro Nakayama.
21. **Hotspot Identification: A Full Bayesian Hierarchical Modeling Approach.** H.L. Huang, H.C. Chin, M.M. Haque.
22. **The Continuous Risk Profile Approach for the Identification of High Collision Concentration Locations on Congested Highways.** Koohong Chung, David R. Ragland, Samer Madanat, Soon Mi Oh.
23. **Estimation of Parameters of Network Equilibrium Models: A Maximum Likelihood Method and Statistical Properties of Network Flow.** Shoichiro Nakayama, Richard D. Connors, David Watling.
24. **Optimization of a Bus and Rail Transit System with Feeder Bus Services under Different Market Regimes.** Chi-Chun Li, William H.K. Lam, S.C. Wong.
25. **Modelling Dynamic Generation of a Choice Set in Pedestrian Networks.** Takamasa Iryo,Yasuo Asakura, Ryota Onishi, Chiharu Samma.
26. **A Common Modeling Framework for Dynamic Traffic Assignment and Supply Chain Management Systems with Congestion Phenomena.** Georgios Kalafatas, Srinivas Peeta.
27. **A Pedestrian Model Considering Anticipatory Behaviour for Capacity Evaluation.** Miho Asano, Takamasa Iryo, Masao Kuwahara.
28. **A Comparative Assessment of Stochastic Capacity Estimation Methods.** Justin Geistefeldt, Werner Brilon.
29. **Supply-demand Diagrams and a New Framework for Analyzing the Inhomogeneous Lighthill-Whitham-Richards Model.** W.L. Jin, L. Chen, Elbridge Gerry Puckett.
30. **Network Evaluation Based on Connectivity Vulnerability.** Fumitaka Kurauchi, Nobuhiro Uno, Agachai Sumalee, Yumiko Seto.
31. **Reliability-based Dynamic Discrete Network Design with Stochastic Networks.** Hao Li, Michael C.J. Bliemer, Piet H.L. Bovy.
32. **Flow Breakdown, Travel Reliability and Real-time Information in Route Choice Behavior.** Jing Dong, Hani S. Mahmassani.
33. **Optimal Sensor Placement for Freeway Travel Time Estimation.** Xuegang (Jeff) Ban, Ryan Herring, J.D. Margulici, Alexandre M. Bayen.
34. **Updating Dynamic Origin-destination Matrices using Observed Link Travel Speed by Probe Vehicles.** Toshiyuki Yamamoto, Tomio Miwa, Tomonori Takeshita, Takayuki Morikawa.

***19th Meeting, 18-20 July 2011. Berkeley, CA, USA. Edited by M. Cassidy and A. Skabardonis.***

1. **Capacity Drops at Merges: an endogenous model.** Ludovic Leclercq, Jorge A. Laval, Nicolas Chiabaut.
2. **Mitigating Freeway Off-Ramp Congestion: a surface streets coordinated approach.** Germán E. Günther, Juan E. Coeymans, Juan C. Muñoz, Juan C. Herrera.
3. **Extended Bottlenecks, the Fundamental Relationship, and Capacity Drop on Freeways.** Benjamin Coifman, Seoungbum Kim.
4. **Optimal inter-area coordination of train rescheduling decisions.** F. Corman, A. D'Ariano, D. Pacciarelli, M. Pranzo.
5. **Design of a rail transit line for profit maximization in a linear transportation corridor.** Zhi-Chun Li, William H.K. Lam, S.C. Wong, A. Sumalee.
6. **Design and Implementation of Efficient Transit Networks: Procedure, Case Study and Validity Test.** M. Estrada, M. Roca-Riu, H. Badia, F. Robusté, C.F. Daganzo.
7. **Cognitive Cost in Route Choice with Real-Time Information: An Exploratory Analysis.** Song Gao, Emma Frejinger, Moshe Ben-Akiva.

8. **Estimating time of day demand with errors in reported preferred times: An application to airline travel.** Raúl Brey, Joan L. Walker.
9. **Dynamics of information generation and transmissions through a social network in non-recurrent transport behaviour.** Takamasa Iryo, Kazuma Yamabe, Yasuo Asakura.
10. **A maximum entropy-least squares estimator for elastic origin-destination trip matrix estimation.** Chi Xie, Kara M. Kockelman, S. Travis Waller.
11. **Hysteresis Phenomena of a Macroscopic Fundamental Diagram in Freeway Networks.** Nikolas Geroliminis, Jie Sun.
12. **On the Fundamental Diagram and Supply Curves for Congested Urban Networks.** Ronghui Liu, Tony May, Simon Shepherd.
13. **Implementing Kinematic Wave Theory to Reconstruct Vehicle Trajectories from Fixed and Probe Sensor Data.** Babak Mehran, Masao Kuwahara, Farhana Naznin.
14. **On the existence of pricing strategies in the discrete time heterogeneous single bottleneck model.** Kien Doan, Satish Ukkusuri, Lanshan Han.
15. **Nonlinear Pricing on Transportation Networks.** Siriphong Lawphongpanich, Yafeng Yin.
16. **A splitting rate model of traffic re-routeing and traffic control.** Mike Smith, Richard Mounce.
17. **A Tractable Class of Algorithms for Reliable Routing in Stochastic Networks.** S. Samaranayake, S. Blandin, A. Bayen.
18. **Dynamic network loading: a stochastic differentiable model that derives link state distributions.** Carolina Osorio, Gunnar Flötteröd, Michel Bierlaire.
19. **Modeling Heterogeneous Risk-Taking Behavior in Route Choice: A Stochastic Dominance Approach.** Xing Wu, Yu (Marco) Nie.
20. **Managing Evacuation Networks.** Carlos F. Daganzo, Stella K. So.
21. **Models for Relief Routing: Equity, Efficiency and Efficacy.** Michael Huang, Karen Smilowitz, Burcu Balcik.
22. **Animal dynamics based approach for modeling pedestrian crowd egress under panic conditions.** Nirajan Shiwakoti, Majid Sarvi, Geoff Rose, Martin Burd.
23. **PAMSCOD: Platoon-based Arterial Multi-modal Signal Control with Online Data.** Qing He, K. Larry Head, Jun Ding.
24. **Development and evaluation of a constrained optimization model for traffic signal plan transition.** Jisun Lee, Billy M. Williams.
25. **Efficiency and Equity of Ramp Control and Capacity Allocation Mechanisms in a Freeway Corridor.** Qiong Tian, Hai-Jun Huang, Hai Yang, Ziyou Gao.
26. **Dynamic Ride-Sharing: a Simulation Study in Metro Atlanta.** Niels Agatz, Alan L. Erera, Martin W.P. Savelsbergh, Xing Wang.
27. **Optimal route decision with a geometric ground-airborne hybrid model under weather uncertainty.** Yoonjin Yoon, Mark Hansen, Michael O. Ball.
28. **Coordinated aviation network resource allocation under uncertainty.** Andrew M. Churchill, David J. Lovell.
29. **Platoon-Based Traffic Flow Model for Estimating Breakdown Probability at Single-Lane Expressway Bottlenecks.** Yasuhiro Shiomi, Toshio Yoshii, Ryuichi Kitamura.
30. **A porous flow approach to modeling heterogeneous traffic in disordered systems.** Rahul Nair, Hani S. Mahmassani, Elise Miller-Hooks.
31. **The economics of parking provision for the morning commute.** Zhen (Sean) Qian, Feng (Evan) Xiao, H.M. Zhang.
32. **Proactive detection of high collision concentration locations on highways.** Koohong Chung, Kitae Jang, Samer Madanat, Simon Washington.
33. **Optimality of environmental policies in air transport markets and changes in the schedule delay: a theoretical approach.** M. Pilar Socorro, Ofelia Betancor.

34. **Characterization of Traffic Oscillation Propagation under Nonlinear Car-Following Laws.** Xiaopeng Li, Yanfeng Ouyang.
35. **Evidence of Convective Instability in Congested Traffic Flow: A Systematic Empirical and Theoretical Investigation.** Martin Treiber, Arne Kesting.
36. **Freeway Traffic Oscillations: Microscopic Analysis of Formations and Propagations using Wavelet Transform.** Zuduo Zheng, Soyoung Ahn, Danjue Chen, Jorge Laval.

***20th Meeting, 17-19 July 2013. Noordwijk, the Netherlands. Edited by S.P. Hoogendoorn, V.L. Knoop and H. van Lint***

1. **On Joint Railway and Housing Development Strategy.** Xiaosu Ma, Hong Lo.
2. **A Supporting Station Model for Reliable Infrastructure Location Design under Interdependent Disruptions.** Xiaopeng Li, Yanfeng Ouyang, Fan Peng.
3. **Computational precision of traffic equilibria sensitivities in automatic network design and road pricing.** Michael Patriksson, Hillel Bar-Gara, Fredrik Hellman.
4. **Day-to-Day Price and Flow Dynamics of Tradable Mobility Credits.** Hongbo Ye, Hai Yang.
5. **Urban Network Gridlock: Characteristics, Dynamics and Control.** Hani Mahmassani, Meead Saberi, Ali Zockaie K.
6. **Estimating MFDs in Simple Networks with Route Choice.** Ludovic Leclercq, Nikolas Geroliminis.
7. **On the distribution of urban road space for multimodal congested networks.** Nan Zheng, Nikolas Geroliminis.
8. **On the Estimation of Temporal Mileage Rates.** Richard Wilson.
9. **On Activity-Based Network Design Problems.** Jee Eun Kang, Joseph Chow, Will Recker.
10. **Continuous Approximation for Skip-Stop Operation in Rail Transit.** Maxime Freyss, Ricardo Giesen, Juan Carlos Munoz.
11. **Generation and Calibration of Transit Hyperpaths.** Jan Dirk Schmoecker, Hiroshi Shimamoto, Fumitaka Kurauchi.
12. **Boundedly Rational User Equilibria (BRUE): mathematical formulation and solution sets.** Xuan Di, Henry X. Liu, Jong-Shi Pang, Jeff X. Ban.
13. **The evening commute with cars and transit: Duality results and user equilibrium for the combined morning and evening peaks.** Eric Gonzales, Carlos Daganzo.
14. **Modelling route choice behaviour in a tolled road network with a time surplus maximisation bi-objective user equilibrium model.** Judith Y.T. Wang, Matthias Ehrgott.
15. **Differentiated Congestion Pricing of Urban Transportation Networks with Vehicle-Tracking Technologies.** Mahmood Zangui, Yafeng Yin, Siriphong, Lawphongpanich, Shigang Chen.
16. **A hybrid implementation mechanism of tradable network permits system which obviates path enumeration: an auction mechanism with day-to-day capacity control.** Kentaro Wada, Takashi Akamatsu.
17. **The variational formulation of a non-equilibrium traffic flow model: theory and implications.** Jia Li, Michael Zhang.
18. **Longitudinal Driving Behavior in case of Emergency Situations: An Empirically Underpinned Theoretical Framework.** Raymond Hoogendoorn, Bart van Arem, Karel Brookhuis.
19. **A variational formulation for higher order macroscopic traffic flow models of the GSOM family.** Jean-Patrick Lebacque, Megan Khoshyaran.
20. **Sensitivity-based uncertainty analysis of a combined travel demand model.** Chao Yang, Chen Anthony, Xiangdong Xu, S.C. Wong.

21. **A transportation programming model considering project interdependency and regional balance.** Kuancheng Huang, Yi-Ming Kuo.
22. **Dynamic User Equilibrium in Public Transport Networks with Passenger Congestion and Hyperpaths.** Valentina Trozzi, Guido Gentile, Michael Bell, Ioannis Kaparias.
23. **Rationing and Pricing Strategies for Congestion Mitigation: Behavioral Theory, Econometric Model, and Application in Beijing.** Shanjiang Zhu, Longyuan Du, Lei Zhang.
24. **Vehicle Index Estimation for Signalized Intersections Using Sample Travel Times.** Peng Hao, Dong Guo, Xuegang Ban, Qiang Ji, Zhanbo Sun.
25. **Modelling supported driving as an optimal control cycle: Framework and model characteristics.** Meng Wang, Martin Treiber, Winnie Daamen, Serge P. Hoogendoorn, Bart van Arem.
26. **Linear-Quadratic Model Predictive Control for Urban Traffic Networks.** Tung Le, Hai L. Vu, Yoni Nazarathy, Bao Vo, Serge P. Hoogendoorn.
27. **Rolling Horizon Approach for Aircraft Scheduling in the Terminal Control Area of Busy Airports.** Marcella Sama, Andrea D'Ariano, Dario Pacciarelli.
28. **Bicriterion Shortest Path Problem with a General Nonadditive Cost.** Peng Chen, Yu Nie.
29. **A bidding advisory model for combinatorial auctions in freight transportation markets with less-than-truckload (LTL) schemes.** Rodrigo Mega-Arango, Satish Ukkusuri.
30. **A Bayesian approach to traffic estimation in stochastic user equilibrium networks.** Chong Wei, Yasuo Asakura.
31. **A path-size weibit stochastic user equilibrium model.** Songyot Kitthamkesorn, Chen Anthony.
32. **Adaptive vehicle routing for risk-averse travellers.** Lin Xiao, Hong Lo.
33. **A multi-commodity Lighthill-Whitham-Richards model of lane-changing traffic flow.** Wen-Long Jin.
34. **Key variables of merging behavior: empirical comparison between two sites and assessment of gap acceptance theory.** Florian Marczak, Winnie Daamen, Christine Buisson.
35. **Freeway On-Ramp Bottleneck Activation, Capacity, and the Fundamental Relationship.** Seoungbum Kim, Benjamin Coifman.