hEART 2017 PhD Summer School* on Monday, September 11th (Room: Rabin 508)		
8:30	9:00	Registration and coffee/tea (Rabin 5th floor)
9:00	9:01	Welcome by **Jack Haddad** (Technion)
9:01	10:00	"The Macroscopic Fundemental Diagrams: definition, estimation methods and applications to large scale traffic simulation" by **Ludovic Leclercq** (Univ. Lyon - IFSTTAR)
10:00	10:15	15 minutes break
10:15	11:15	"Hybrid Choice Models and causality inference for travel behaviour research" by **Caspar Chorus** (TU Delft)
11:15	11:30	15 minutes break
11:30	12:30	"Combining transportation research and sociological theories: The role of empathy and social interaction road behavior of cyclists and motorist" by **Sigal Kaplan** (The Hebrew University)
12:30	13:30	60 minutes lunch break at Faculty restaurant (Rabin 2nd floor)
13:30	14:30	“Travel behavior implication and modeling of information and automated vehicles” by **Yoram Shiftan** (Technion)
14:30	15:30	"Motorway traffic flow modeling, surveillance and control" by **Yibing Wang** (Zhejiang University)
16:00	19:00	Welcome Guided Tour to Baha’i Gardens, Haifa (buses depart from Rabin building at 16:00)
19:00	22:00	Welcome Reception at Douzan restaurant, Haifa

* The PhD Summer School is supported by the Ministry of Science, Technology, and Space.

		Tuesday, September 12th				
8:45	9:15	Registration and coffee/tea (Rabin 2nd floor)				
9:15	9:45	Opening Session (Room: Rabin 206) : Opening remarks by Jack Haddad, Chair of hEART 2017, Technion Welcome by: (1) Wayne D. Kaplan, Executive Vice President for Research, Technion, (2) Shay Soffer, Ministry of Transport and Road Safety, (3) Fadil Salih, Ministry of Science, Technology, and Space, (4) Yoram Shiftan, Transportation Research Institute, Technion				
9:45	10:00	Break				
Room		Rabin 501	Rabin 509	Rabin 507	Rabin 508	Rabin 506
Topic		**Discrete choice modeling (1)**	**Public transport operations (1)**	**Transport economics (1)**	**Traffic network control**	**Transport demand modeling (1)**
10:00	10:30	Measuring errors with latent variables in transport models (137) - *Juan Manuel Lorenzo, Maria Börjesson and Andrew Daly*	An efficient algorithm for the multi-objective railway timetable rescheduling problem (125) - *Stefan Binder and Michel Bierlaire*	Estimating the marginal social costs of urban rail systems (78) - *Shane Canavan, Daniel Graham and Richard Anderson*	Coordinating merging public transport operations using holding control strategies (141) - *Georgios Laskaris, Oded Cats, Erik Jenelius and Francesco Viti*	Extending the Hidden Markov Model for Activity Scheduling (75) - *Cuauhtemoc Anda and Sergio Arturo Ordoñez Medina*
10:30	11:00	A collective discrete choice model of personal mobility vehicle (PMV) ownership: A group-based stated preference approach (86) - *Makoto Chikaraishi, Ayumi Uehara, Akimasa Fujiwara and Junyi Zhang*	Share a ride to the train station using a demand-responsive feeder service (131) - *Shlomo Beychok, Hillel Bar-Gera, Tal Raviv and Gad Rabinowitz*	Urban public transport investment model (48) - *Nir Sharav and Yoram Shiftan*	Combined estimation and control of large-scale urban road networks: A real-time optimization based approach (167) - *Isik Ilber Sirmatel and Nikolas Geroliminis*	Sampling approach on spatial variation for travel demand forecasting (143) - *Riki Kawase, Junji Urata and Takamasa Iryo*
11:00	11:30	Taboo Trade-Off Aversion in Discrete Choice Experiments: A Case Study in the Domain of Transport Policy (15) - *Caspar Chorus, Niek Mouter, Baiba Pudane and Danny Campbell*	Tactical service design and vehicle allocation optimization (44) - *Konstantinos Gkiotsalitis, Zongxiang Wu and Oded Cats*	On the role of sleep in time use models (182) - *Sergio Jara-Diaz and Jorge Rosales-Salas*	Control strategies for network efficiency and resilience with route choice (171) - *Andy H F Chow and Rui Sha*	Calibration of behavioral parameters in an agent-based transport simulation (109) - *Amit Agarwal, Gunnar Flötteröd and Kai Nagel*
11:30	12:00	30 minutes break (Rabin 2nd floor)				
12:00	12:30	**Keynote "Preference Estimation and Personalization for Smart Mobility" by Moshe Ben-Akiva, Massachusetts Institute of Technology (Rabin 206)**				
12:30	13:00					
13:00	13:30	60 minutes lunch break (GWRI entrance hall)				
13:30	14:00					
Topic		**Cycling behavior modeling**	**Network analysis and modeling (1)**	**Macroscopic flow models**	**Pedestrian - route choice, traffic flow and estimation**	**Agent modeling of innovative mobility systems**
14:00	14:30	Face validation of a microscopic cycling behaviour model using differential game theory (165) - *Alexandra Gavriilidou, Yufei Yuan, Haneen Farah and Serge Hoogendoorn*	Path selection methods and network performance: a sensitivity analysis (93) - *Charlotte Duruisseau and Ludovic Leclercq*	Influence of network features on the parameters of the macroscopic fundamental diagram (59) - *Allister Loder, Lukas Ambühl, Monica Menendez and Kay W Axhausen*	Pedestrian multi-class speed-density relationship: evaluation of integrated and sequential approach (101) - *Marija Nikolic, Michel Bierlaire, Iliya Markov and Romain Konde*	Towards welfare optimal operation of shared autonomous vehicles (12) - *Ihab Kaddoura and Joschka Bischoff*
14:30	15:00	Multichannel cyclist queuing behaviour at signalised cycle crossings (74) - *Rafał Kucharski, Arkadiusz Drabicki, Kulpa Tomasz and Andrzej Szarata*	Are there really inefficient links in a real transportation network? (134) - *Shlomo Bekhor and Michael Sorani*	The MFD trip-based approach applied to multi-reservoir systems (129) - *Guilhem Mariotte and Ludovic Leclercq*	Pedestrian movement modelling using ubiquitous data (56) - *Alexandra Beaulieu and Bilal Farooq*	Dynamic ride sharing implementation and analysis in MATSim (130) - *Biyu Wang, Hong Liang, Sebastian Hörl and Francesco Ciari*
15:00	15:30	Accessibility measures for cycling: Catchment-areas in Amsterdam (47) - *Ilse Galama, Winnie Daamen, Stefan Van der Spek and Serge Hoogendoorn*	Supply side travel zones: an aggregation-disaggregation method for consistent centroid and connector link design (13) - *Mark Raadsen, Michiel Bliemer and Michael Bell*	Trip lengths and the macroscopic traffic simulation: an interface between the microscopic and macroscopic networks (120) - *Sergio Batista, Ludovic Leclercq and Nikolas Geroliminis*	Multi-directional ASM for pedestrian traffic state estimation (108) - *Dorine Duives, Yufei Yuan, Winnie Daamen and Serge Hoogendoorn*	Assessing the impact of large-scale shared mobility systems using MATSim (28) - *Henrik Becker, Francesco Ciari and Kay W Axhausen*
15:30	16:00	30 minutes break (Rabin 5th floor)				
Topic		**Freight and logistics**	**Network analysis and modeling (2)**	**Traffic flow theory (1)**	**Travel behaviour analysis (1)**	**Agent modeling use cases**
16:00	16:30	Discriminatory revenue management policies in rail freight transportation (57) - *Marko Kapetanović, Nebojša Bojović and Miloš Milenković*	Markov assignment for a pedestrian activity-based network design problem (36) - *Yuki Oyama, Eiji Hato, Riccardo Scarinci and Michel Bierlaire*	A study of the effect of the social network topology on the information propagation speed (37) - *Anna Takayasu, Yusuke Hara and Masao Kuwahara*	Health equity outcomes arising from transport scheme innovation, utilizing new generation mobility data (149) - *Susan Grant-Muller, Frances Hodgson and Nicholas Malleson*	MATSim simulations in the Tel Aviv metropolitan area: direct competition between public transport and cars on the same roadway (110) - *Golan Ben-Dor, Bella Dmitrieva, Michał Maciejewski, Joschka Bischoff, Eran Ben-Elia and Itzhak Benenson*
16:30	17:00	Interaction delay in M/M/C/N and the impact of buffers on harbor quay-crane operations (10) - *Hila Hindi Ling and Hillel Bar-Gera*	The relationship between the efficiency of auction and preference elicitation cost based on experimental approach (77) - *Yusuke Hara*	A reaction-diffusion model with region-to-region parameters for large scale traffic networks (181) - *Leonardo Bellocchi and Nikolas Geroliminis*	Feld's Foci theory and the relations between meeting locations and travel behaviour (188) - *Na'Amah Hagiladi and Pnina Plaut*	Integration of demand and operational models for an agent based model of a stackable electric vehicle (88) - *Haitam Laarabi, Chiara Boldrini, Raffaele Bruno, Peter Davidson, Rob Culley and Helen Porter*
17:00	17:30	Optimal strategies for improving resilience of global marine-based freight distribution networks (66) - *Elise Miller-Hooks*	Integrated trip assignment for congested rail systems: A case study of the Utrecht-Amsterdam corridor (49) - *Flurin S Hänseler, Jeroen P A van den Heuvel, Oded Cats, Winnie Daamen and Serge Hoogendoorn*	Spatial stochastic vehicle traffic modeling for VANETs (25) - *Jinqiu Guo and Yibing Wang*	Motivating the use of real-time multimodal travel planners: the role of symbolic interaction, human needs and community resilience (6) - *Aliasghar Mehdizadeh Dastjerdi, Sigal Kaplan and Francisco Camara Pereira*	Traffic assignment for an integrated land use and transportation model in a large metropolitan area: case study of Munich (100) - *Carlos Llorca, Ana Tsui Moreno, Matthew Bediako Okrah and Rolf Moeckel*
17:45	21:00	Dinner at Abu Christo restaurant, Acre (buses depart from Rabin building at 17:45)				
21:00	23:00	Guided tour to the Knights Halls and Templars' Tunnel				

REMEMBER: Leave 5 min of your presentation for questions.
REMEMBER: The last presenter of each session is chair.

		Wednesday, September 13th				
8:30	9:00	Coffee/tea break (Rabin 5th floor)				
Room		Rabin 501	Rabin 509	Rabin 507	Rabin 508	Rabin 506
Topic		**Travel behavior modeling**	**Land use and transport interactions**	**Safety in public transport ***	**Microscopic flow behavior**	**Transport policy analysis**
9:00	9:30	"It's the relativity, stupid!" Testing Weber's law in utility-based and regret-based models of travel behavior (23) - *Bing Huang, Sander van Cranenburgh and Caspar G.Chorus*	On the activity space derived social media: recurrence, temporal and spatial sensitivity analysis (166) - *Emmanouil Chaniotakis and Constantinos Antoniou*	Safety performance of the new BRT system in Haifa, Israel (118) - *Victoria Gitelman, Roby Carmel and Ana Korchatov*	Data-driven models for identification of lane-changing characteristics and duration using NGSIM data (136) - *Vasileia Papathanasopoulou and Constantinos Antoniou*	Effects of local policies on charging behaviour of Electric Vehicle owners and on purchase intentions of prospective owners. Cross-pollination based on a unique combination of natural and stated choice experiments (21) - *Rick Wolbertus, Maarten Kroesen, Robert van den Hoed and Caspar G.Chorus*
9:30	10:00	Multimodality in Austria - The connection between mobility behaviour and mobility supply (55) - *Reinhard Hoessinger, Heinz Brian Kreis and Christoph Link*	Assessing the fairness of of transport systems in US metro areas (64) - *Karel Martens and Yoav Lerman*	Traveler's perceived safety at bus stops in Stockholm, Sweden (83) - *Roberto Fernandez Abenoza, Oded Cats and Vania Ceccato*	The impact of driver distraction on car following behavior (179) - *Sunbola Zatmeh Kanj and Tomer Toledo*	The inefficiency of travel passes with crowding in public transport (51) - *Daniel Hörcher and Daniel Graham*
10:00	10:30	Providing personalised feedback to investigate the role of social influence on travel behaviour (169) - *David Palma, Romain Crastes dit Sourd, Chiara Calastri, Stephane Hess, Matthew Beck and Vikki O'Neill*	Future Mobility Options: Simulation of ownership of autonomous vehicles in an integrated land use/transport model (155) - *Matthew Bediako Okrah, Ana Tsui Moreno, Carlos Llorca and Rolf Moeckel*	The effectiveness of different incentives programs in encouraging safe driving (180) - *Yoram Shiftan, Wafa Elias, Shelly Ben Zvi Etzioni and Ido Erev*	Prediction Model Adaptation in Response to Traffic Disruptions (97) - *Francisco Camara Pereira, Raghuveer Kamalakar and Inon Peled*	Validation of reference forecasts for passenger transport (68) - *Jonas Eliasson, Matts Andersson and Karin Brundell-Freij*
10:30	11:00	30 minutes break (Rabin 5th floor)				
11:00	11:30	**Keynote: "Connected Vehicles and Control of Traffic" by Petros Ioannou, University of Southern California (Rabin 206)**				
11:30	12:00					
12:00	12:30	60 minutes lunch break (GWRI entrance hall)				
12:30	13:00					
Topic		**Discrete choice modeling (2)**	**Traffic data analysis**	**Public transport operations (2)**	**Shared autonomous mobility operations**	**Traffic flow agent-based modeling**
13:00	13:30	Using artificial neural networks to investigate decision-rule heterogeneity (11) - *Sander Van Cranenburgh and Ahmad Alwosheel*	A domain-based 3-D route choice modeling based on sparse observations through Wi-Fi (174) - *Kanako Izawa and Eiji Hato*	Hybrid traffic simulation of an innovative catenary-free electric bus service (17) - *Riccardo Scarinci, Michel Bierlaire and Alessandro Zanarini*	Strategies for on-line management of a multi-layered public transit system (140) - *Martin Repoux, Mor Kaspi and Nikolas Geroliminis*	Implementing traffic responsive signals in MATSim (172) - *Nico Kühnel, Theresa Thunig and Kai Nagel*
13:30	14:00	Power to the People? Applying participatory budgeting to evaluate transport policy decisions (32) - *Niek Mouter, Paul Koster and Thijs Dekker*	Detecting congestion in urban networks based on data fusion (185) - *Ayelet Gal-Tzur, Yakov Bohadana and Yana Barsky*	The influence of transit service frequency and station characteristics on passenger arrival time distributions – A smart card data analysis in the Copenhagen Region (123) - *Jesper Bláfoss Ingvardson, Sebastián Raveau and Otto Anker Nielsen*	Re-defining the role of public transport in a world of Shared Autonomous Vehicles (24) - *Joschka Bischoff, Ihab Kaddoura, Michal Maciejewski and Kai Nagel*	Simulating the impacts of risk-averse vehicle navigations on network traffic flow under travel time uncertainty (152) - *Daisuke Fukuda, Jiangshan Ma, Kaoru Yamada and Norihito Shinkai*
14:00	14:30	Modeling competition among airline itineraries (35) - *Virginie Lurkin and Laurie A Garrow*	Bayesian route choice inference using Bluetooth technology (96) - *Francisco Garrido-Valenzuela, Juan C Herrera and Sebastián Raveau*	Investigating urban bus travel time reliability patterns in London using iBus Automatic Vehicle Locating and Live Bus Arrivals data (177) - *Selini Hadjidimitriou, Ioannis Kaparias and Mauro Dell'Amico*	Autonomous car- and ride-sharing systems: a simulation-based analysis of impacts on travel demand in urban, suburban and rural German regions (186) - *Lars Kröger, Benjamin Kickhöfer and Tobias Kuhnimhof*	Braess' paradox and congestion pricing in MATSim (173) - *Theresa Thunig, Ihab Kaddoura and Kai Nagel*
14:45	19:00	Guided tour to the old city of Nazareth (buses depart from Rabin building at 14:45)				
19:00	22:00	Conference Gala Dinner at Tishren restaurant, Nazareth				

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		Thursday, September 14th				
8:30	9:00	Coffee/tea break (Rabin 5th floor)				
Room		Rabin 501	Rabin 509	Rabin 507	Rabin 508	Rabin 506
Topic		**Discrete choice modeling (3)**	**Resilience in public transport**	**Autonomous and connected vehicles**	**Traffic flow theory (2)**	**Transport economics (2)**
9:00	9:30	Discrete-continuous maximum likelihood for the estimation of error component logit models (158) - *Anna Fernández-Antolín, Virginie Lurkin, Matthieu de Lapparent and Michel Bierlaire*	Quantifying the impacts of transportation-communication interdependencies on the resilience of diverse populations (85) - *Neža Vodopivec and Elise Miller-Hooks*	Network performance of autonomous cars at low market shares (146) - *Andrea Vanesa Papu Carrone and Jeppe Rich*	Fitting fundamental diagrams to LWR using flow data (53) - *Jeremie Coullon, Yvo Pokern, Eugeny Buldakov and Benjamin Heydecker*	Causal analysis of impact of early-bird scheme in hong kong using travelcard data (94) - Anupriya, Daniel J Graham and Daniel Horcher
9:30	10:00	The initial condition problem with complete history dependency in learning models for travel choices (50) - *C Angelo Guevara, Yue Tang and Song Gao*	What factors determine the variability of the level of service experienced by transit users? (121) - *Jaime Soza-Parra, Juan Carlos Munoz and Sebastián Raveau*	A methodology for observation-based measurement of accessibility (72) - *Sebastian Hörl and Kay W Axhausen*	Hybrid traffic state estimation and prediction using pattern recognition (153) - *T T Nguyen, S C Calvert and J W C van Lint*	Learning from app-based feedback on driving skills: do monetary incentives matter? (102) - *Alexander Mürmann, Stefanie Peer and Lukas Zahrer*
10:00	10:30	Actual preferences for EV households in Denmark and Sweden (91) - *Anders Fjendbo Jensen, Sonja Haustein, Elisabetta Cherchi and Mikkel Thorhauge*	Towards the modelling of public transport route choice under disruption (156) - *Zhonghao Xie and Ed Manley*	The morning commute problem with temporary access restrictions for conventional and autonomous vehicles (103) - *Raphaël Lamotte, André de Palma and Nikolas Geroliminis*	An application of shock wave theory to urban traffic control via dynamic speed advisory (184) - *Giovanni De Nunzio and Per-Olof Gutman*	The wider economic benefits of reducing the cost of travel (61) - *Csaba Pogonyi, Daniel Graham and Richard Anderson*
10:30	11:00	30 minutes break (Rabin 5th floor)				
11:00	11:30	**Keynote: "Modeling and optimizing humanitarian operations - new challenges in transportation research" by Michal Tzur, Tel Aviv University (Rabin 206)**				
11:30	12:00					
12:00	12:30	60 minutes lunch break (GWRI entrance hall)				
12:30	13:00					
Topic		**Discrete choice modeling (4)**	**Transit network design**	**Autonomous platoons**	**Travel behaviour analysis (2)**	**Transport demand modeling (2)**
13:00	13:30	Modeling learning and dynamic route and parking choice behaviour under uncertainty: a regret-based perspective (43) - *Elaine Schneider de Carvalho, Soora Rasouli and Harry Timmermans*	Transit network design augmented with shared vehicles acting as feeders on short distances (150) - *Aleksandar Trifunovic and Bernhard Friedrich*	Investigating travel time aspects of autonomous vehicle platoons used in city logistics (107) - *Inbal Haas and Bernhard Friedrich*	Dynamic route choice behavior on German freeway A8 based on large scale vehicle fleet data (7) - *Markus Auer, Hubert Rehborn and Klaus Bogenberger*	Population synthesis for long-distance travel demand simulations using mobile phone data (52) - *Maxim Janzen, Kirill Müller and Kay Axhausen*
13:30	14:00	Investigating suppressed demand effects for increasing car travel costs: A latent variable random effects Poisson (LVREP) approach (113) - *Basil Schmid and Kay W Axhausen*	Decentralization and its efficiency implications in suburban public transport (46) - *Woubit Seifu, Daniel Horcher, Bruno de Borger and Daniel Graham*	The forming of truck platoons: How to make it work (138) - *Thomas Rasmussen, Jeppe Rich, Otto Anker Nielsen and Thomas Ross Pedersen*	Mobility Preferences Analysis based on Travel Mode Activities and Patterns (187) - *Lijuan Zhang, Ayelet Gal-Tzur and Sagi Dalyot*	Assessing the applicability of the Utility-based Dynamic Demand Estimation on large realistic networks (79) - *Guido Cantelmo and Francesco Viti*
14:00	14:30	Identifying the presence of heterogeneous discrete choice mechanisms at an individual level (132) - *Felipe Gonzalez-Valdes and Sebastián Raveau*	A heuristic to solve the Transit network design problem (104) - *Nurit Oliker and Shlomo Bekhor*	Modeling multi-level choices of control transitions in full-range adaptive cruise control (119) - *Silvia Varotto, Haneen Farah, Tomer Toledo, Bart van Arem and Serge Hoogendoorn*	Taking the detour - Travellers' compliance with system-beneficial route advice in a real-world context (45) - *Mariska van Essen, Tom Thomas, Eric van Berkum and Caspar Chorus*	Justifying toll payment with biased travel time estimates: Behavioral findings and route choice modeling (16) - *Einat Tenenboim, Nira Munichor and Yoram Shiftan*
14:30	15:00	30 minutes break (Rabin 5th floor)				
Topic		**Routing problems**	**Network analysis**	**Multimodal mobility**	**Choice modelling and travel behavior**	**Agent-based demand modeling**
15:00	15:30	The Electric Autonomous Dial-a-Ride Problem: An Optimization Framework for Routing, Scheduling, and Battery Management (90) - *Claudia Bongiovanni, Mor Kaspi and Nikolas Geroliminis*	How far is traffic from user equilibrium? (69) - *Mehmet Yildirimoglu and Osman Kahraman*	A Comprehensive Framework for Modelling Taxi Driver Behavior and Centralized Taxi Operation in SimMobility (38) - *Bat-Hen Nahmias Biran, Nishant Kumar, Arun Prakash Akkinepally, Simon Oh, Ravi Seshadri, Carlos Lima Azevedo and Moshe Ben-Akiva*	Exploring the inclusion of social influence in a hybrid choice model of electric vehicle (EV) purchase preferences (160) - *Francesco Manca, Aruna Sivakumar, John W Polak and Jonn Axsen*	Activity scheduling in a miscroscopic integrated land-use transport modeling framework (164) - *Dominik Ziemke and Kai Nagel*
15:30	16:00	Transportation planning for Emergency: The role of Transportation to the resilience of populations (162) - *Guy Keren, Carlo Giacomo Prato and Daniel Felsenstein*	New developments in the application of static and dynamic traffic assignment in practice (161) - *Ramachandran Balakrishna, Daniel Morgan, Andres Rabinowicz, Howard Slavin and Qi Yang*	From road shares to road sharing: Cyclist-motorists interactions and its effect on cyclists' perceptions and willingness to share the road (99) - *Ravid Luria, Sigal Kaplan and Kira Janstrup*	Modeling commuter bicycle route choice in a dense urban network (111) - *Muhammad Ghanayim and Shlomo Bekhor*	Towards a framework for mobile phone data in MATSim (176) - Michael Zilske
16:00	16:30	A unified modeling and solution framework for stochastic routing problems (33) - *Iliya Markov, Michel Bierlaire, Jean-François Cordeau, Yousef Maknoon and Sacha Varone*	Decomposing journey times on urban metro systems via semiparametric mixed methods (54) - *Ramandeep Singh, Dan Graham and Richard Anderson*	Travel demand estimation of cable cars supplementing public transport (84) - *Karl Hofer, Michael Haberl and Martin Fellendorf*	Modelling of mobility patterns of urban large populations (157) - *Xiaokai Nie, Mark Birkin, Susan Grant-Muller and Robin Lovelace*	Spatial modelling of traffic volumes and mean speed values (82) - *Georgios Sarlas and Kay Axhausen*
16:30	17:00	Closing Session (Rabin 206)				
17:30	20:00	Closing Ceremony at Hecht Museum, Haifa (buses depart from Rabin building at 17:30)				

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