

8 SESSION SCHEDULE

THE ELEVENTH INTERNATIONAL CONFERENCE ON ADVANCED SYSTEMS FOR PUBLIC TRANSPORT (CASPT 09)

20 – 22 July 2009, Hong Kong

20 July 2009 (Monday)

| Time | Event | | | |
|---------------|--|-----------------------------------|-----------------------------------|---------------------------------------|
| 08:30 – 09:00 | Registration Pre-Function Area | | | |
| 09:00 – 09:30 | Welcome Addresses Picasso Room | | | |
| 09:30 – 10:10 | Keynote Presentation by Dorothy Chan Picasso Room | | | |
| 10:10 – 10:40 | Coffee Break Pre-Function Area | | | |
| 10:40 – 11:20 | Keynote Presentation by Nigel H.M. Wilson Picasso Room | | | |
| 11:20 – 12:00 | Keynote Presentation by S.C. (Chan) Wirasinghe and U. Vandebona Picasso Room | | | |
| 12:00 – 13:45 | Conference Lunch Academy Room, 1/F | | | |
| 13:45 – 15:00 | Session A1 Picasso Room | Session A2 Monet Room A | Session A3 Monet Room B | Session A4 Picasso Room B |
| | Planning and Policy I | Scheduling | Air Transportation | Automatic Vehicle Location Systems |
| 15:00 – 15:30 | Coffee Break Pre-Function Area | | | |
| 15:30 – 16:45 | Session B1 Picasso Room | Session B2 Monet Room A | Session B3 Monet Room B | Session B4 Picasso Room B |
| | Planning and Policy II | Transfer Management | Demand Analysis | Transit Service Design |
| 16:45 – 18:00 | Break | | | |
| 18:00 – 20:00 | Welcome Reception Monet Room A and B | | | |

SESSION SCHEDULE 9**20 July 2009 (Monday)****Abstract**

| Welcome Addresses Picasso Room | |
|---|--|
| 09:00 – 09:10 | Welcome Address by Roland T.H. Chin <i>Vice-President for Academic Affairs, The Hong Kong University of Science and Technology</i> |
| 09:10 – 09:20 | Welcome Address by William H.L. Lam <i>President, Hong Kong Society for Transportation Studies</i> |
| 09:20 – 09:30 | Opening Address by Hong K. Lo <i>Conference Chair</i> <i>Department of Civil and Environmental Engineering, The Hong Kong University of Science and Technology</i> |
| Keynote Presentation Picasso Room | |
| 09:30 – 10:10 | Transport Development - Review and Challenges p. 25 Dorothy Chan <i>Deputy Director, School of Professional and Continuing Education, The University of Hong Kong; Former Deputy Commissioner for Transport</i> |
| 10:10 – 10:40 | Coffee Break Pre-Function area |
| Keynote Presentation Picasso Room | |
| 10:40 – 11:20 | Evolving Relationships among Operations Planning, Operations Control, Passenger Information and Fare Payment in the Urban Public Transport Industry p. 26 Nigel H.M. Wilson <i>Massachusetts Institute of Technology, USA</i> |
| Keynote Presentation Picasso Room | |
| 11:20 – 12:00 | Public Transport Analysis: Back to Basics p. 27 S.C. (Chan) Wirasinghe and U. Vandebona <i>University of Calgary, Canada; University of New South Wales, Australia</i> |
| 12:00 – 13:45 | Conference Lunch Academy Room, 1/F |
| Session A1: Planning and Policy I (Picasso Room) <i>Session Chair: Barbara W.Y. Siu</i> | |
| 13:45 – 14:10 | Optimal coordination strategy for an integrated multi-modal and multi-operator transit system (MS-54) p.33 Soi Hoi Lam, Shoujie Li and Yiik Diew Wong |
| 14:10 – 14:35 | Pareto-Improving Congestion Pricing on Multimodal Transportation Networks (MS-122) p. 97 Di Wu, Yafeng Yin and Siriphong Lawphongpanich |

10 SESSION SCHEDULE

| 20 July 2009 (Monday) | | Abstract |
|--|--|----------|
| 14:35 – 15:00 | The influence analysis of policies to public transit (MS-66) Haiyan Wu, Jianxin Lin and Chenhai Ouyang | p. 35 |
| Session A2: Scheduling (Monet Room A) <i>Session Chair: Robert L. Bertini</i> | | |
| 13:45 – 14:10 | Effect of driving-time determination and holding points on reliability (MS-9) N. van Oort, J.W. Boterman and R. van Nes | p. 36 |
| 14:10 – 14:35 | Integrated timetabling and vehicle scheduling in practice (MS-83) Charles Fleurent and Réjean Lessard | p. 37 |
| 14:35 – 15:00 | A Multi-Level Framework for Generating Timetables in Highly Utilized Railway Networks (MS-101) Gabrio Caimi, Martin Fuchsberger, Marco Laumanns and Kaspar Schüpbach | p. 38 |
| Session A3: Air Transportation (Monet Room B) <i>Session Chair: Mark Hickman</i> | | |
| 13:45 – 14:10 | The TSAT Allocation System at London Heathrow: the relationship between slot compliance, throughput and equity (MS-125) Jason A.D. Atkin, Edmund K. Burke and John S. Greenwood | p. 39 |
| 14:10 – 14:35 | Multi-objective approaches to investigate airline schedule robustness: the 3-objective case (MS-128) Edmund K. Burke, Patrick De Causmaecker, Geert De Maere, Jeroen Mulder and Marc Paelinck | p. 40 |
| 14:35 – 15:00 | Statistical mechanics for analytic planning: An application to domestic air traffic in China (MS-137) Hans Huber and Shailesh Mehta | p. 41 |
| Session A4: Automatic Vehicle Location Systems (Picasso Room B) <i>Session Chair: Jane Lin</i> | | |
| 13:45 – 14:10 | Investigation in Real-Time Bus Headway Reliability Measure (MS-12) Jie (Jane) Lin and Minyan Ruan | p. 42 |
| 14:10 – 14:35 | Identifying Recurring Congestion on Urban Streets using Automated Vehicle Location-equipped Transit Buses as Probes (MS-117) Rabi G. Mishalani, Prem Goel, Mark M. McCord, Cheng Chen and Jinguo Gao | p. 43 |
| 14:35 – 15:00 | Assignment-based Methodology to Match Automated Vehicle Location Transit Bus Trip Trajectories to Schedules (MS-118) Yuxiong Ji, Rabi G. Mishalani and Mark M. McCord | p. 44 |
| 15:00 – 15:30 | Coffee Break Pre-function Area | |
| Session B1: Planning and Policy II (Picasso Room) <i>Session Chair: W.Y. Szeto</i> | | |
| 15:30 – 15:55 | The Research of Public Transport Policy Support the Commuter Travel more Sustainable (MS-99) Haiyan Wu and Chenghai Ouyang | p. 45 |
| 15:55 – 16:20 | Integrated public transit priority strategies (MS-109) Giuseppe Bellei and Konstantinos Gkoumas | p. 46 |

SESSION SCHEDULE 11**20 July 2009 (Monday)****Abstract**

| | | |
|--|--|-------|
| 16:20 – 16:45 | Assessment of public private partnership models for mass rail transit - an influence diagram approach (MS-131) S. Tang and Hong K. Lo | p. 47 |
| Session B2: Transfer Management (Monet Room A) <i>Session Chair: Amer Shalaby</i> | | |
| 15:30 – 15:55 | Transfer Behavior and Transfer Planning in Public Transport Systems: A Case of the London Underground (MS-28) Zhan Guo and Nigel H.M. Wilson | p. 48 |
| 15:55 – 16:20 | Development of a Holding Control Model for Real-Time Connection Protection (MS-62) Eui-Hwan Chung and Amer Shalaby | p. 49 |
| 16:20 – 16:45 | The Transfer Penalty Measurement of the Regional Railway Stations (MS-65) Hye-Ran Kim, Hwang-bae Kim and Jin-hee Choi | p. 50 |
| Session B3: Demand Analysis (Monet Room B) <i>Session Chair: David Z.W. Wang</i> | | |
| 15:30 – 15:55 | Empirical Comparison of Urban Rail Network Demand Models: A Case Study in the Tokyo Metropolitan Area (MS-32) Hironori Kato, Yuichiro Kaneko and Masashi Inoue | p. 51 |
| 15:55 – 16:20 | Financial Sustainability of Rail Transit Service: the effect of Urban development pattern (MS-119) David Z. W. Wang and Hong K. Lo | p. 52 |
| 16:20 – 16:45 | Influence of vacant taxi driver's customer searching strategy on taxi system performance (MS-129) Shi Wen, C.O. Tong, S.C. Wong and Hai Yang | p. 53 |
| Session B4: Transit Service Design (Picasso Room B) <i>Session Chair: Pitu Mirchandani</i> | | |
| 15:30 – 15:55 | Design of express services for an urban bus corridor with capacity constraints (MS-92) Juan Carlos Muñoz, Ricardo Giesen, Homero Larrain and Carola Leiva | p. 54 |
| 15:55 – 16:20 | Bus network design: procedure and application in large urban areas (MS-105) E. Cipriani, S. Gori, and M. Petrelli | p. 55 |
| 16:20 – 16:45 | 2-Vehicle Zone Optimal Design for Feeder Transit Services (MS-106) Xiugang Li and Luca Quadrifoglio | p. 56 |
| 16:45 – 18:00 | Break | |
| 18:00 – 20:00 | Welcome Reception Monet Room A and B | |

12 SESSION SCHEDULE

21 July 2009 (Tuesday)

| Time | Event | | | |
|---------------|--|---|---|--|
| 09:00 – 09:40 | Keynote Presentation by Stephen Chik Picasso Room | | | |
| 09:40 – 10:20 | Keynote Presentation by Avishai (Avi) Ceder Picasso Room | | | |
| 10:20 – 10:45 | Coffee Break Pre-Function Area | | | |
| 10:45 – 12:00 | Session C1 Picasso Room A Travel Behaviour | Session C2 Monet Room A Transit Performance | Session C3 Monet Room B Operations, Control and Management | Session C4 Picasso Room B Flexible Transit Modes |
| 12:00 – 14:00 | Conference Lunch Academy Room, 1/F | | International Scientific Committee Lunch Meeting | |
| 14:00 – 18:00 | Technical Tours | | | |
| 18:00 – 21:00 | Conference Dinner Jumbo Floating Restaurant, Shum Wan, Aberdeen Note: Buses will be arranged at entrance of the conference hotel at 18:00 to bring participants to the dinner venue | | | |

SESSION SCHEDULE 13**21 July 2009 (Tuesday)****Abstract**

| Keynote Presentation Picasso Room | | |
|--|--|-------|
| 09:00 – 09:40 | Railway Development in Hong Kong Stephen Chik <i>Chief Civil and Planning Engineer, MTR Corporation Limited</i> | p. 28 |
| Keynote Presentation Picasso Room | | |
| 09:40 – 10:20 | Public-Transport Connectivity Measures and Performance within the Operations Planning Process Avishai (Avi) Ceder <i>University of Auckland, New Zealand; Technion, Israel</i> | p. 29 |
| 10:20 – 10:45 | Coffee Break Pre-Function Area | |
| Session C1: Travel Behaviour (Picasso Room) <i>Session Chair: Yasuo Asakura</i> | | |
| 10:45 – 11:10 | Understanding travel behavior of public transportation user in Indonesian Metropolitan areas (MS-63) Tri Basuki Joewono, Yusak O. Susilo and Wimpy Santosa | p. 57 |
| 11:10 – 11:35 | Estimation of Behavioural Change of Railway Passengers Using Smart Card Data (MS-68) Y. Asakura, T. Iryo, Y. Nakajima and T. Kusakabe | p. 58 |
| 11:35 – 12:00 | Destination station choice analysis using hybrid choice model and smart card data (MS-71) Chong Wei, Takamasa Iryo and Yasuo Asakura | p. 59 |
| Session C2: Transit Performance (Monet Room A) <i>Session Chair: Nigel H.M. Wilson</i> | | |
| 10:45 – 11:10 | The causal relationship of the service quality of TransJakarta Busway (MS-15) Tri Basuki Joewono and Dhany Utami Ningtyas | p. 60 |
| 11:10 – 11:35 | The Evaluation of Customer Satisfaction Degree for Public Transit Industry (MS-37) Lixin Miao, Xiaobo Qu and Zhanwu Zhang | p. 61 |
| 11:35 – 12:00 | Service Quality Measurement in Urban Rail Networks with Data from Automated Fare Collection Systems (MS-86) Michael Frumin, David Uniman, Nigel H.M. Wilson, Rabi Mishalani and John Attanucci | p. 62 |
| Session C3: Operations, Control and Management (Monet Room B) <i>Session Chair: Leo G. Kroon</i> | | |
| 10:45 – 11:10 | Evaluation of controlling measures for light rail applied in practice (MS-10) N. van Oort and R. van Nes | p. 63 |
| 11:10 – 11:35 | Centralized versus distributed railway traffic control (MS-18) F. Corman, A. D'Ariano, D. Pacciarelli and M. Pranzo | p. 64 |

14 SESSION SCHEDULE

| 21 July 2009 (Tuesday) | | Abstract |
|--|--|---|
| 11:35 – 12:00 | Analysis of Bus Boarding Limits Real-time Control Strategy: When and How much limiting Bus Boarding improve performance? (MS-87) Felipe Delgado, Juan Carlos Muñoz, Ricardo Giesen and Aldo Cipriano | p. 65 |
| Session C4: Flexible Transit Modes (Picasso Room B) <i>Session Chair: Hai Yang</i> | | |
| 10:45 – 11:10 | Door-to-door DRT assignment model considering travellers mode choice (MS-82) Fumitaka Kurauchi, Min Guo and Agachai Sumalee | p. 66 |
| 11:10 – 11:35 | A general framework for designing demand responsive transit service (MS-96) Yuh-Jen Cho, Yi-An Chen and Suei-Han Gao | p. 67 |
| 11:35 – 12:00 | Meeting functions and returns to scales in urban taxi services (MS-135) Teng Yang, Hai Yang and S.C. Wong | p. 68 |
| 12:00 – 14:00 | Conference Lunch Academy Room, 1/F | International Scientific Committee Lunch Meeting |
| Technical Tours | | |
| 14:00 – 18:00 | Tour A: Hong Kong Shipyard Tour B: Hong Kong Tramways Tour C: KMB Lai Chi Kok Depot Tour D: The Hong Kong RFID Centre | |
| 18:00 – 21:00 | Conference Dinner Jumbo Floating Restaurant, Shum Wan, Aberdeen Note: Buses will be arranged at entrance of conference hotel at 18:00 to bring participants to the dinner venue | |

SESSION SCHEDULE 15**22 July 2009 (Wednesday)**

| Time | Event | | | |
|---------------|---|-----------------------------------|---|-------------------------------------|
| 09:00 – 09:40 | Keynote Presentation by Stefan Voss Picasso Room | | | |
| 09:40 – 10:20 | Keynote Presentation by Pitu Mirchandani Picasso Room | | | |
| 10:20 – 10:45 | Coffee Break Pre-Function Area | | | |
| 10:45 – 12:00 | Session D1 Picasso Room | Session D2 Monet Room A | Session D3 Monet Room B | Session D4 Picasso Room B |
| | Bus Operations I | Transit Assignment I | Crew Scheduling I | Heuristics I |
| 12:00 – 13:30 | Conference Lunch Academy Room, 1/F | | | |
| 13:30 – 14:45 | Session E1 Picasso Room | Session E2 Monet Room A | Session E3 Monet Room B | Session E4 Picasso Room B |
| | Bus Operations II | Transit Assignment II | Crew Scheduling II | Heuristics II |
| 14:45 – 15:15 | Coffee Break Pre-Function Area | | | |
| 15:15 – 16:30 | Session F1 Picasso Room A | Session F2 Monet Room A | Session F3 Monet Room B | Session F4 Picasso Room B |
| | Transfer Management | Pricing | Information Technology in Transport | Heuristics III |
| 16:30 – 17:00 | Closing Ceremony Picasso Room | | | |

16 **SESSION SCHEDULE****22 July 2009 (Wednesday)****Abstract**

| Keynote Presentation | | |
|--|--|-----------|
| Picasso Room | | |
| 09:00 – 09:40 | Public Transport: Where we are and where we go Stefan Voss <i>University of Hamburg, Germany</i> | p. 30 |
| Keynote Presentation | | |
| Picasso Room | | |
| 09:40 – 10:20 | Transit Signal Priority: Pros and Cons? (MS-22) Pitu Mirchandani <i>Arizona State University, USA</i> | p. 31, 32 |
| 10:20 – 10:45 | Coffee Break Pre-Function Area | |
| Session D1: Bus Operations I (Picasso Room) | | |
| <i>Session Chair: Avi Ceder</i> | | |
| 10:45 – 11:10 | Scheduling-based bus operational-parking solution (MS-23) Avishai (Avi) Ceder and Gali Israel | p. 69 |
| 11:10 – 11:35 | Optimal Bus Fleet Management Strategies In A Congested Road Network (MS-61) CO Tong | p. 70 |
| 11:35 – 12:00 | Using Archived Stop-Level Transit Data for Assessing Bus Operations and Exploring Optimal Stop Spacing (MS-116) Huan Li, Robert L. Bertini and Ahmed M. El-Geneidy | p. 71 |
| Session D2: Transit Assignment I (Monet Room A) | | |
| <i>Session Chair: Jan-Dirk Schmöcker</i> | | |
| 10:45 – 11:10 | Reliability-based stochastic transit assignment with capacity constraints (MS-29) W.Y. Szeto, Muthu Solayappan and K.I. Wong | p. 72 |
| 11:10 – 11:35 | A dynamic frequency-based assignment model for congested transit networks using probit-based stochastic user equilibrium (MS-50) Younes Hamdouch and Siriphong Lawphonganich | p. 73 |
| 11:35 – 12:00 | Frequency-based assignment with consideration of seat availability (MS-80) Jan-Dirk Schmöcker, Michael G.H. Bell, Fumitaka Kurauchi and Hiroshi Shimamoto | p. 84 |
| Session D3: Crew Scheduling I (Monet Room B) | | |
| <i>Session Chair: Juan Carlos Muñoz</i> | | |
| 10:45 – 11:10 | Assignment of work shifts to public transit drivers based on stated preferences (MS-53) Sonia Montalva, Juan Carlos Muñoz and Ricardo Paredes | p. 75 |
| 11:10 – 11:35 | Train Driver Rescheduling applying Actor-Agent Techniques (MS-88) Erwin J.W. Abbink, David G.A. Mobach, Pieter J. Fioole, Leo G. Kroon, Eddy H.T. van der Heijden and Niek J.E. Wijngaards | p. 76 |
| 11:35 – 12:00 | Multiple depot vehicle and crew scheduling with time windows for scheduled trips (MS-104) Natalia Kliewer, Bastian Amberg and Boris Amberg | p. 77 |

SESSION SCHEDULE 17**22 July 2009 (Wednesday)****Abstract**

| Session D4: Heuristics I (Picasso Room B) | | |
|---|--|-------|
| <i>Session Chair: Seungjae Lee</i> | | |
| 10:45 – 11:10 | Global Solution Algorithms for a transit route design (MS-17) Seungjae Lee and Jonghak Han | p. 78 |
| 11:10 – 11:35 | Algorithmic Approaches to the Capacitated Delay Management Problem (MS-44) Michael Schachtebeck | p. 79 |
| 11:35 – 12:00 | A Stochastic Multiple Area Approach for Public Transport Network Design (MS-79) Bernhard Alt and Ulrich Weidmann | p. 80 |
| Conference Lunch Academy Room, 1/F | | |
| Session E1: Bus Operations II (Picasso Room) | | |
| <i>Session Chair: C.O. Tong</i> | | |
| 13:30 – 13:55 | Exploring user behavior on the TransJakarta Busway using the stated preference method (MS-16) Tri Basuki Joewono, Adi Prasetyo Raharjo and Almeida Andes Sudrajat | p. 81 |
| 13:55 – 14:20 | An Analysis of Efficiency of the Seoul's Exclusive Bus Routes using Data Envelopment Analysis (MS-38) Jin-Seok Hahn, Hye-Ran Kim and Seung-young Kho | p. 82 |
| 14:20 – 14:45 | Study of the impact of exclusive bus lane under highly heterogeneous traffic condition (MS-84) V. Thamizh Arasan and P. Vedagiri | p. 83 |
| Session E2: Transit Assignment II (Monet Room A) | | |
| <i>Session Chair: Fumitaka Kurauchi</i> | | |
| 13:30 – 13:55 | Transit Assignment Model Considering the Inter-dependent of Each Line's Arrival (MS-69) Hiroshi Shimamoto, Fumitaka Kurauchi, Jan-Dirk Schmöcker and Michael G.H. Bell | p. 74 |
| 13:55 – 14:20 | The Multi-Class Schedule-Based Transit Assignment Model in Network with Uncertainties (MS-93) Yuqing Zhang, William H.K. Lam, Agachai Sumalee, Hong K. Lo and C.O. Tong | p. 85 |
| 14:20 – 14:45 | An Approach for Integrated Dynamic Transit and Traffic Simulation and Assignment (MS-123) Mark Hickman and Yi-Chang Chiu | p. 86 |
| Session E3: Crew Scheduling II (Monet Room B) | | |
| <i>Session Chair: Raymond Kwan</i> | | |
| 13:30 – 13:55 | Passengers' Satisfaction, Driver and Bus Scheduling: The Case of Lagos Metropolis Bus Rapid Transit (BRT) Scheme(MS-121) Kayode Oyesiku, Femi Oduduwa and Bambo Somuyiwa | p. 87 |
| 13:55 – 14:20 | Case studies of TrainTRACS under contrasting train crew scheduling scenarios (MS-126) Ann Kwan and Raymond S.K. Kwan | p. 88 |

18 **SESSION SCHEDULE**

| 22 July 2009 (Wednesday) | | Abstract |
|--|--|-----------------|
| 14:20 – 14:45 | Socially acceptable annual holiday planning for the crew of a local public transport company in Germany (MS-136) Sigrun Dewess | p. 89 |
| Session E4: Heuristics II (Picasso Room B) <i>Session Chair: Agachai Sumalee</i> | | |
| 13:30 – 13:55 | The Bus Bridging Problem in Metro Operations: Models and Algorithms (MS-43) Konstantinos L. Kepaptsoglou and Matthew G. Karlaftis | p. 90 |
| 13:55 – 14:20 | A Branch-and-Price-and-Cut Framework For Crew Pairing Optimization (MS-85) Viktor Dück, Franz Wesselmann and Leena Suhl | p. 91 |
| 14:20 – 14:45 | Column Generation with Dual Inequalities for Railway Crew Scheduling Problems (MS-134) Tatsushi Nishi, Yuki Muroi and Masahiro Inuiguchi | p. 92 |
| 14:45 – 15:15 | Coffee Break Pre-Function Area | |
| Session F1: Suburban/ Rural Transit (Picasso Room A) <i>Session Chair: Rabi G. Mishalani</i> | | |
| 15:15 – 15:40 | Public Transport for weak demand areas (MS-6) Timo Bertocchi and Uwe E. Köehler | p. 93 |
| 15:40 – 16:05 | Arrival Time Prediction Model for Regional Bus Transit (MS-51) Andrew Chun Kit Wong, Amer Shalaby and Baher Abdulhai | p. 94 |
| 16:05 – 16:30 | The rapid transit routing problem (MS-75) Angel Marin and Luis Cadarso | p. 95 |
| Session F2: Pricing (Monet Room A) <i>Session Chair: Stefan Voss</i> | | |
| 15:15 – 15:40 | Research on Pricing Theory and Method of Public Transport Basing on Cost-Benefit Analysis (MS-90) Xuemei Zhou, Xianzhun Zhang and Xiaoguang Yang | p. 96 |
| 15:40 – 16:05 | Pareto Efficient Strategies for Regulating Public Transit Operations (MS-57) Qiong Tian, Hai Yang and Haijun Huang | p. 34 |
| 16:05 – 16:30 | Road Pricing: Implications for Public Transport (MS-124) Theodore Tsekeris and Stefan Voss | p. 98 |
| Session F3: Information Technology in Transport (Monet Room B) <i>Session Chair: Joachim R. Daduna</i> | | |
| 15:15 – 15:40 | Pre-design method for advanced public transport systems (MS-21) Adriano Alessandrini, Francesco Filippi, Daniele Stam and Antonino Tripodi | p. 99 |
| 15:40 – 16:05 | Log Analysis of Web Site for Railway Route Search (MS-74) Shintaro Terabe, Kosuke Jyuri and Hisao Uchiyama | p. 100 |
| 16:05 – 16:30 | Dynamic Passenger Information: An International Comparison (MS-120) Joachim R. Daduna, Eric Schütze and Stefan Voss | p. 101 |

SESSION SCHEDULE 19**22 July 2009 (Wednesday)****Abstract**

| Session F4: Heuristics III (Picasso Room B) | | |
|--|--|--------|
| <i>Session Chair: K.I. Wong</i> | | |
| 15:15 – 15:40 | A new Algorithm for Scheduling Flex-Route Transit Services in a Constraint Programming Environment (MS-89) Baha W. Alshalalfah and Amer S. Shalaby | p. 102 |
| 15:40 – 16:05 | Local search heuristics for the train timetabling problem (MS-103) Sebastian G. Klages and Kai Bollue | p. 103 |
| 16:05 – 16:30 | Genetic and local search algorithms for train crew rostering (MS-127) Mantas Gudynas and Raymond S.K. Kwan | p. 104 |
| Closing Ceremony | | |
| <i>Picasso Room</i> | | |
| 16:30 – 17:00 | Closing Address | |