MCDM 2008 Conference Programme - Final Version

Session No	1				
Session Title	Opening Session		**Chairman**	M. Ehrgott	
Day	Monday, 7 January 2008		**Room**	CC	
Time	9:00	**to** 10:00			

Authors	Title	Speaker
	Welcome	Ehrgott, M.

Session No	2				
Session Title	Public Planning		**Chairman**	B. Vitoriano	
Day	Monday, 7 January 2008		**Room**	CC	
Time	11:30	**to** 13:00			

Authors	Title	Speaker
A. Ruiz-Rivas, B. Vitoriano, M.T. Ortuno	A goal programming based decision support system for logistics of humanitarian aid	Vitoriano, B.
B. Bieda	Decision support systems based on the life cycle assessment (LCA) for integrated municipal solid waste (MSW) management under uncertainty	Bieda, B.
P. Hassell, R. Maher	Using multi-criteria analysis to aid funding decisions on transport and stormwater projects: Infrastructure Auckland's experience 1998 – 2004	Hassell, P. and Maher, R.

Session No	3				
Session Title	Transport Planning		**Chairman**	A. Ceder	
Day	Monday, 7 January 2008		**Room**	ALR 3	
Time	11:30	**to** 13:00			

Authors	Title	Speaker
P. Balckars, N. Kunicina, B. Vinogradova	Decision making on train movement sequense for co - modal transport logistic systems	Kunicina, N.
J. Wang, A. Raith, M. Ehrgott	Tolling Analysis with Biobjective Traffic Assignment	Wang, J.
A. Ceder	Optimal Design of Public Transit Shuttles	Ceder, A.

Session No	**4**		
Session Title	Industrial Applications	**Chairman**	O. Weide
Day	Monday, 7 January 2008	**Room**	ALR 5
Time	11:30 **to** 13:00		

Authors	Title	Speaker
O. Weide, D. Ryan, M. Ehrgott	An iterative approach to integrated aircraft routing, crew pairing and flight re-timing	Weide, O.
M.S. Sauian, H. Hashim	Planning optimal sites on air of Telco operation using MCDM	Sauian, M.S.
B. Tam, M. Ehrgott, D. Ryan	Unit Crewing in the Airline Tour-of-Duty Planning Problem	Tam, B.

Session No	**5**		
Session Title	Approximation of the Nondominated Set	**Chairman**	T. Seppala
Day	Monday, 7 January 2008	**Room**	CC
Time	14:00 **to** 16:00		

Authors	Title	Speaker
J.W. Klinkenberg, M. Emmerich, A. Deutz	Expected improvement of the S-metric for finite Pareto front approximations	Emmerich, M.
L. Shao, M. Ehrgott	Multiple objective linear programming in beam intensity optimization of IMRT	Shao, L.
T. Seppala, R.E. Steuer	Obtaining densely distributed discretized representations of the nondominated set in multiple objective linear programming	Seppala, T.
T.J. Stewart	Reference direction approach to characterizing the efficient frontier by genetic algorithms	Stewart, T.J.

Session No	**6**		
Session Title	Interactive Multiobjective Optimization	**Chairman**	J. Wallenius
Day	Monday, 7 January 2008	**Room**	ALR 3
Time	14:00 **to** 16:00		

Authors	Title	Speaker
S. Greco, B. Matarazzo, R. Slowinski	Multiobjective interactive optimization using dominance-based decision rules	Matarazzo, B.
J. Fowler, E. Gel, M. Koksalan, P. Korhonen, J. Marquis, J. Wallenius	Interactive evolutionary multi-objective optimization using convex preference cones	Wallenius, J.

| M. Luque, F. Ruiz, R.E. Steuer | The modified interactive Chebyshev algorithm for convex multiobjective programming | Ruiz, F. |
| M.M. Munoz, F. Ruiz | ISTMO: An interval reference-point-based method for stochastic multiobjective programming problems | Ruiz, F. |

Session No	**7**		
Session Title	MCDM Methodology 1	**Chairman**	J. Corner
Day	Monday, 7 January 2008	**Room**	ALR 5
Time	14:00 **to** 16:00		

Authors	**Title**	**Speaker**
T.Y. Chen, Y.W. Li, C.W. Tsui	The intuitionistic fuzzy TOPSIS method and discussions on distance and similarity measures	Chen, T.Y.
A. Roy, P. Mackin, J. Wallenius, J. Corner, M. Keith, H. Arora, G. Schmick	An interactive search method based on user preferences	Corner, J.
J.R. Figueira, S. Greco, V. Mousseau, R. Slowinski	UTAGMS and GRIP methodology for multiple criteria decision problems	Greco, S.
J. Bragge, P. Korhonen, J. Wallenius, H. Wallenius	Bibliometric analysis of multiple criteria decision making/multiattribute utility theory	Wallenius, H.

Session No	**8**		
Session Title	Pairwise Comparison and Ratio Scales	**Chairman**	E. Choo
Day	Monday, 7 January 2008	**Room**	CC
Time	16:30 **to** 18:00		

Authors	**Title**	**Speaker**
E.U. Choo	Accuracy index versus consistency index for reciprocal pairwise comparison matrices	Choo, E.U.
W.C. Wedley	From no thing to some things - Deriving ratio preferences	Wedley, W.C.
J. Temesi	Pair-wise comparison matrices and the consistency of the decision-maker: concepts and methods	Temesi, J.

Session No	**9**		
Session Title	Group Decision Making and Negotiation	**Chairman**	R. Hamalainen
Day	Monday, 7 January 2008	**Room**	ALR 3
Time	16:30 **to** 18:00		

Authors	**Title**	**Speaker**

R.P. Hamalainen, E. Saarinen	Systems intelligence in decision and negotiation support	Hamalainen, R.P.
P. Nemery	Extensions of the FlowSort sorting method for group decision-making	Nemery, P.
H.S. Shih, H.J. Shyur, C.C. Jou	A multi-attribute NSS for purchasing negotiation	Shih, H.S.

Session No   **10**

Session Title	Transportation Systems	**Chairman**	M. Gorobetz
Day	Monday, 7 January 2008	**Room**	ALR 5
Time	16:30 **to** 18:00		

Authors	Title	Speaker
A. Levchenkov, M. Gorobetz	Multiple criteria decision-making using genetic algorithms for transportation systems	Gorobetz, M.
D. Sumpf	The UNESCAP time/cost-distance methodology	Sumpf, D.
M.M. Yu, C.K. Lee, F.C. Liao	Efficiency and effectiveness assessment of services business - Evidence from international tourist hotels in Taiwan	Yu, M.M.

Session No   **11**

Session Title	Multiobjective Optimization in Design	**Chairman**	H. Nakayama
Day	Tuesday, 8 January 2008	**Room**	CC
Time	9:00 **to** 11:00		

Authors	Title	Speaker
K. Mela, J. Koski	Solving structural multiobjective design optimization problems with continuous and discrete variables	Mela, K.
H. Nakayama, Y. Yun, M. Shirakawa	Multi-objective model predictive control	Nakayama, H.
M. Yoshikawa, K. Kitamura, T. Fujino, H. Terai, H. Yamauchi	Congestion-driven partitioning technique based on hybrid genetic algorithm	Yoshikawa, M.
I. Beinarts, A. Levchenkov	Multiple criteria decision support for heating systems in city electro transportation	Levchenkov, A.

Session No   **12**

Session Title	Renewable Energy and Alternative Fuels	**Chairman**	G. Tzeng
Day	Tuesday, 8 January 2008	**Room**	ALR 3
Time	9:00 **to** 11:00		

Authors	**Title**	**Speaker**
J. Daniel, N.V.R. Vishal, A. Bensely, S. Iniyan	Evaluation of the significant renewable energy resources in India using analytical hierarchy process	Bensely, A.
M. Celik, I. Deha Er	A multiple criteria evaluation approach on the applicability of fuel cell technology alternatives for merchant ships in maritime transportation industry	Celik, M.
C.W. Lin, S.H. Chen, G.H. Tzeng	Analysis of critical evaluation factors of alternative fuel vehicles using DEMATEL	Tzeng, G.H.
A. Boggia, C. Cortina	A multicriteria model for measuring sustainable development	Boggia, A.

Session No   **13**

Session Title	Multiobjective Programming and Applications	**Chairman**	Y. Shi
Day	Tuesday, 8 January 2008	**Room**	ALR 5
Time	9:00 **to** 11:00		

Authors	**Title**	**Speaker**
S.C. Ting, F.M. Pitty	Multi-objective programming for import container stacking at container terminals	Pitty, F.M.
J. He, Y. Shi, Y. Zhang, A. Li	Multiple criteria and multiple constraint linear programming for discriminant problems	Shi, Y.
Z. Zhang, D. Zhang, Y. Tian, Y. Shi	Kernel based multiple criteria linear program	Shi, Y.
A.R. Duarte, C.C. Ribeiro	Referee assignments in sports leagues: Approximate and exact multi-objective approaches	Ribeiro, C.C.

Session No   **14**

Session Title	Plenary Talk Anna Nagurney	**Chairman**	M. Ehrgott
Day	Tuesday, 8 January 2008	**Room**	CC
Time	11:30 **to** 12:30		

Authors	**Title**	**Speaker**
A. Nagurney	Multicriteria decision-making for the environment: Sustainability and vulnerability analysis of critical infrastructure systems from transportation networks to electric power supply chains	Nagurney, A.

Session No   **15**

Session Title   EMO Track Session 1   **Chairman**   E. Talbi

Day   Tuesday, 8 January 2008   **Room**   CC

Time   14:00   **to**   16:00

Authors	Title	Speaker
M. Preuss, C. Kausch, C. Bouvy, F. Henrich	Decision space diversity can be essential for solving multiobjective real-world problems	Kausch, C.
K. Srivastava, S. Srivastava, B.K. Pathak, K. Deb	Discrete time-cost tradeoff with a novel hybrid metaheuristic	Srivatsava, S.
E. Tantar, O. Schuetze, C.A. Coello Coello, J.R. Figueira, E.G. Talbi	Computing and selecting ε-efficient solutions of $\{0,1\}$-knapsack problems	Talbi, E.G.
L. Mikhailov, J. Knowles	Priority elicitation in the AHP by a Pareto envelope-based selection algorithm	Mikhailov, L.

Session No   **16**

Session Title   Internet and Software Applications of MCDM   **Chairman**   H. Weistroffer

Day   Tuesday, 8 January 2008   **Room**   ALR 3

Time   14:00   **to**   16:00

Authors	Title	Speaker
G. Buyukozkan, O. Feyzioglu	An MCDM tool to evaluate government web sites in a fuzzy environment	Buyukozkan, G.
M.V. Pato, S. Colaco	A bi-objective approach for the web community reconfiguring problem	Pato, M.V.
S.R. Susarapu, H.R. Weistroffer, G. Dhillon	Aligning information systems security and usability requirements for computer based information systems: A multicriteria problem	Weistroffer, H.R.
Q. Liu, Z. Zhang, L. Fan, W. He, Z. Yu	The application of ontology-based natural language information extraction on software testing	Fan, L.

Session No   **17**

Session Title   MCDM Methodology 2   **Chairman**   P. Meyer

Day   Tuesday, 8 January 2008   **Room**   ALR 5

Time   14:00   **to**   16:00

Authors	Title	Speaker
I. Kojadinovic, C. Labreuche	Partially unipolar bipolar Choquet integrals	Kojadinovic, I.

T.Y. Chen, T.C. Ku, C.W. Tsui	Determining attribute importance based on triangular and trapezoidal fuzzy numbers in (z)fuzzy measures	Tsui, C.W.
S. Greco, V. Mousseau, R. Slowinski	Multiple criteria decision support in terms of necessary and possible preference	Slowinski, R.
P. Meyer, R. Bisdorff, J.L. Marichal	Disaggregation of bipolar-valued outranking relations and application to the inference of model parameters	Meyer, P.

Session No	**18**		
Session Title	Invited Session Goal Programming	**Chairman**	F. Ruiz
Day	Tuesday, 8 January 2008	**Room**	CC
Time	16:30 **to** 18:00		

Authors	Title	Speaker
S.C.K. Chu, M. Zhu, L. Zhu	Goal programming models and DSS for manpower planning of an airport baggage service	Zhu, M.
X. Li, P. Beullens, D.F. Jones	Goal programming models for pooling	Jones, D.F.
J. Gonzalez-Pachon, L. Diaz-Balteiro, C. Romero	Goal programming and group decision making: some theoretical and empirical reflections	Romero, C.

Session No	**19**		
Session Title	Multiobjective Combinatorial Optimization	**Chairman**	M. Koksalan
Day	Tuesday, 8 January 2008	**Room**	ALR 3
Time	16:30 **to** 18:00		

Authors	Title	Speaker
B. Lokman, M. Koksalan	Finding all nondominated solutions of a multi-objective combinatorial optimization problem	Koksalan, M.
L. Galand, P. Perny, O. Spanjaard	Optimization of the Choquet integral in multicriteria combinatorial problems	Galand, L.
A. Raith, M. Ehrgott	Solving the biobjective integer minimum cost flow problem	Raith, A.

Session No	**20**		
Session Title	Decision Support Systems	**Chairman**	M. Geiger
Day	Tuesday, 8 January 2008	**Room**	ALR 5
Time	16:30 **to** 18:00		

Authors	Title	Speaker

M.J. Geiger	Computer assisted planning under uncertain and imprecise conditions -- an application to automated timetabling	Geiger, M.J.
W. Michalowski, S. Wilk, A. Thijssen	Supporting physician's decision-making: Bayesian belief network model of radical prostatectomy caremap	Michalowski, W.
A. Mor-Yaroslavtsev, A. Levchenkov, P. Balckars	Decision making support systems for city transport flow problems	Mor-Yaroslavtsev, A.

Session No	**21**		
Session Title	Preferences, Utility, Measurement	**Chairman**	S. Greco
Day	Wednesday, 9 January 2008	**Room**	CC
Time	9:00 **to** 11:00		

Authors	Title	Speaker
S. Greco, B. Matarazzo, R. Slowinski	Axiomatic basis for ordinal qualitative conjoint measurement	Greco, S.
X. Xie, J.B. Yang, D.L. Xu, A.K. Maddulapalli	An investigation into multiple criteria evaluation of consumer preferences under uncertainty	Xu, D.L.
R. Vetschera, C. Schwand, L Wakolbinger	Factors influencing the response mode bias in utility elicitation	Schwand, C.

Session No	**22**		
Session Title	Financial Applications	**Chairman**	Y. DeSmet
Day	Wednesday, 9 January 2008	**Room**	ALR 3
Time	9:00 **to** 11:00		

Authors	Title	Speaker
N. Yan, Y. Shi, Z. Chen	Multiple criteria nonlinear programming classification with signed non-additive measure	Chen, Z.
Y. DeSmet	Relational multicriteria clustering: The case of binary preference matrices	DeSmet, Y.
C.Y. Chianglin, P.L. Yu	Valuation and synergy sharing of some corporate cooperation – Mathematical programming approaches	Chianglin, C.Y.

Session No	**23**		
Session Title	Nonlinear Multiobjective Optimization	**Chairman**	H. Calvete
Day	Wednesday, 9 January 2008	**Room**	ALR 5
Time	9:00 **to** 11:00		

Authors	Title	Speaker

P.A. Naegele	An infeasible path-following interior-point algorithm employing a warm start strategy to solve nonlinear multicriteria optimisation problems	Naegele, P.A.
H.I. Calvete, C. Gale	Multiobjective bilevel problems	Calvete, H.I.
A.M.J. Skulimowski	Networks of optimizers	Skulimowski, A.M.J.
Z. Chen	Examining foundations of data mining from a multi-objective perspective	Chen, Z.

Session No   24

Session Title Management of Natural Resources		**Chairman** O. Marinoni
Day	Wednesday, 9 January 2008	**Room** CC
Time	11:30 **to** 13:00	

Authors	**Title**	**Speaker**
A. Grandgirard, B. Bryan, D. Hatton MacDonald, A. Cast	Prioritising investment in natural resource management based on conservation and community values	Grandgirard, A.
O. Marinoni, A. Higgins, S. Hajkowicz	A multi criteria knapsack solution to optimise natural resource management project selection	Marinoni, O.
E. Lai, S. Lundie, N.J. Ashbolt	Fuzzy multi-criteria approach to assess impacts of a tap water intervention on a rural community of Limpopo province, South Africa	Lai, E.

Session No   25

Session Title Evaluation and Selection		**Chairman** O. Feyzioglu
Day	Wednesday, 9 January 2008	**Room** ALR 3
Time	11:30 **to** 13:00	

Authors	**Title**	**Speaker**
O. Feyzioglu, B.B. Caliskur, G Buyukozkan	Evaluation of suppliers considering decision criteria dependencies	Feyzioglu, O.
H. Deng, S. Wibowo	A fuzzy multicriteria analysis approach using pairwise comparison to selecting information systems projects under uncertainty	Wibowo, S.
M. Celik, I. Deha Er	Hybrid evaluation methodology proposals on selection of adequate prime mover for intercontinental cargo ships	Celik, M.

Session No	26			
Session Title	Games and Auctions		**Chairman**	F. Fernandez
Day	Wednesday, 9 January 2008		**Room**	ALR 5
Time	11:30	**to** 13:00		

Authors	Title	Speaker
F.R. Fernandez, J. Puerto	The minimum cost shortest-path tree game	Fernandez, F.R.
M. Larbani, Y.W. Chen	Improving the game approach to fuzzy MADM	Chen, Y.W.
P. Fiala	Modelling and solving of multidimensional auctions	Fiala, P.

Session No	27			
Session Title	Metaheuristics for MOCO		**Chairman**	J. Teghem
Day	Thursday, 10 January 2008		**Room**	CC
Time	9:00	**to** 10:00		

Authors	Title	Speaker
S. Elaoud, J. Teghem, T. Loukil	A self adapted genetic algorithm to solve MOCO problems	Teghem, J.
X. Gandibleux, S.N. Parragh, K.F. Doerner	Success stories on the multi-objective path relinking	Gandibleux, X.

Session No	28			
Session Title	Problem Structuring		**Chairman**	V. Belton
Day	Thursday, 10 January 2008		**Room**	ALR 3
Time	9:00	**to** 10:00		

Authors	Title	Speaker
V. Belton, T. Stewart	Problem structuring for MCDA and MCDA as problem structuring	Belton, V. Stewart, T.
D. Hector, J. Petrie	Structuring Complex Problems: the Use of Maps and Narratives	Hector, D.

Session No	30			
Session Title	MCDM Awards Plenaries		**Chairman**	M. Koksalan
Day	Thursday, 10 January 2008		**Room**	CC
Time	10:30	**to** 13:00		

Authors	Title	Speaker

MCDM Gold Medal		Winner
Edgeworth Pareto Award		Winner
Cantor Award		Winner

Session No   **31**

Session Title	MCDM Society Business Meeting	**Chairman**	T. Stewart
Day	Thursday, 10 January 2008	**Room**	CC
Time	14:00 **to** 15:00		

Authors	Title	Speaker
	MCDM Society Business Meeting	Stewart, T.J.

Session No   **32**

Session Title	MCDA Based Risk Assessment	**Chairman**	D. Wijnmalen
Day	Thursday, 10 January 2008	**Room**	CC
Time	15:00 **to** 16:00		

Authors	Title	Speaker
D. Wijnmalen, E. Pruyt	MCDA-based national risk assessment in The Netherlands, Part I: The assessment methodology	Wijnmalen, D.
E. Pruyt, D. Wijnmalen	MCDA-based national risk assessment in The Netherlands, Part II: MCDA methods and application	Pruyt, E.

Session No   **33**

Session Title	Electricity	**Chairman**	R. Scheubrein
Day	Thursday, 10 January 2008	**Room**	ALR 3
Time	15:00 **to** 16:00		

Authors	Title	Speaker
R. Scheubrein	Multiple Criteria Electric Power Planning	Scheubrein, R.
N. Kunicina	Decision making of power energy consumption in electrical transport	Kunicina, N.

Session No	**34**			
Session Title	Customer Satisfaction		**Chairman**	I. Joao
Day	Thursday, 10 January 2008		**Room**	ALR 5
Time	15:00	**to** 16:00		

Authors	Title	Speaker
I.M. Joao, C.A. Bana e Costa, J.R. Figueira	Towards the testing of an alternative method for multicriteria analysis of customer satisfaction	Joao, I.M.
S. Cevik, E. Aktas, Y. Ilker Topcu	A multi-criteria decision aid-based evaluation of consumer adoption: The case of internet banking in Turkey	Ilker Topcu, Y.

Session No	**35**			
Session Title	Combining MCDA with other Methods		**Chairman**	V. Mabin
Day	Thursday, 10 January 2008		**Room**	CC
Time	16:30	**to** 18:00		

Authors	Title	Speaker
W. Zeiler	Multi criteria decision support for conceptual design: Morphologic Kesselring method	Zeiler, W.
V. Mabin, V. Belton, J. Davies	Enhancing business and government capability through project prioritisation - a multi-framing approach exploring complementarities between MCDA and TOC methods	Mabin, V.
E. Gillingham, J. Roberts, V. Mabin	Using MCDA in a multi-framing context: Two applications in HR	Mabin, V.

Session No	**36**			
Session Title	Multiobjective Programming		**Chairman**	K. Miettinen
Day	Thursday, 10 January 2008		**Room**	ALR 3
Time	16:30	**to** 18:00		

Authors	Title	Speaker
M. Zarghaami, F. Szidarovszky	Using OWA operators to explain compromise programming method	Zarghaami, M.
K. Deb, K. Miettinen	Evaluation of nadir objective vector using a local search based evolutionary approach	Miettinen, K.
D. Zhang, Y. Tian, Y. Shi	A regression method by multiple criteria linear programming	Tian, Y.

Session No   **37**

Session Title	Performance Evaluation	**Chairman**	A. Jensen
Day	Thursday, 10 January 2008	**Room**	ALR 5
Time	16:30 **to** 18:00		

Authors	Title	Speaker
C. Kao, H.L. Pao	Evaluation of research performance in management: An empirical study	Kao. C.
A.V. Jensen, M.B. Barfod, S. Leleur	Multi-dimensional project evaluation: Combining cost-benefit analysis and multi-criteria analysis with the COSIMA software system	Jensen, A.V.

Session No   **38**

Session Title	EMO Track Session 2	**Chairman**	A.G. Hernandez-Diaz
Day	Friday, 11 January 2008	**Room**	CC
Time	9:00 **to** 11:00		

Authors	Title	Speaker
A.G. Hernandez-Diaz, C.A. Coello Coello, F. Perez, R. Caballero, J. Molina	Using a gradient based method to seed an EMO algorithm	Hernandez-Diaz, A.G.
M. Woehrle, D. Brockhoff, T. Hohm, S. Bleuler	Investigating coverage and connectivity trade-offs in wireless sensor networks: The benefits of MOEAs	Hohm, T.
J.W. Klinkenberg, T.M. Emmerich, A.H. Deutz, O.M. Shir, T. Baeck	A reduced-cost SMS-EMOA using kriging, self-adaptation, and parallelization	Emmerich, M
J. Bader, K. Deb, E. Zitzler	Faster hypervolume-based search using Monte Carlo sampling	Bader, J.

Session No   **39**

Session Title	MCDM Methodology III	**Chairman**	R. Hafiz
Day	Friday, 11 January 2008	**Room**	ALR 3
Time	9:00 **to** 11:00		

Authors	Title	Speaker
T.Y. Chen, Y.M. Peng, C.W. Tsui	Reduction of positive leniency via a distance between fuzzy measures in importance assessing	Chen, T.Y.
T.R. Lin, C.C. Lin, G.H. Tzeng	Combining DEMATEL technique with MCDM method to evaluate the development strategies of supply chain for TFT-LCD makers	Tzeng, G.H.
A.E. Abbas, R. Hafiz, L. Yang	Sensitivity to multiplicative utility independence	Hafiz, R.

Session No	40			
Session Title	Applications of AHP		**Chairman**	B. Karpak
Day	Friday, 11 January 2008		**Room**	ALR 5
Time	9:00	**to** 11:00		

Authors	Title	Speaker
K. Al-Arfaj, K. Dahal	Using analytic hierarchy process (AHP) in pricing out losses of customer goodwill that will be used in maintenance scheduling of deregulated power system	Al-Arfaj, K.
B. Karpak, I. Topcu	Small medium manufacturing enterprises in Turkey: An analytic network process framework for prioritizing factors affecting the performance	Karpak, B.

Session No	41			
Session Title	Plenary Talk Jim Petrie		**Chairman**	M. Ehrgott
Day	Friday, 11 January 2008		**Room**	CC
Time	11:30	**to** 12:30		

Authors	Title	Speaker
J. Petrie, R. Kempener, J. Beck	Multi criteria decision making within energy networks for electricity production in emerging markets	Petrie, J.

Session No	42			
Session Title	Sustainable Development		**Chairman**	C. Bouvy
Day	Friday, 11 January 2008		**Room**	CC
Time	14:00	**to** 15:30		

Authors	Title	Speaker
M. Khalili Araghi	Application of DEMATEL in economic development issues	Khalili Araghi, M.
M. Kazemi	Designing of local decision making networks towards the extension of sustainable development (Hable-Rud Watershed, Iran)	Kazemi, M.
C. Bouvy, C. Kausch, M. Preuss	On the potential of multi-objective optimisation in the design of sustainable energy systems	Bouvy, C.

Session No	43			
Session Title	Portfolio Optimization		**Chairman**	M. Rodriguez-Uria
Day	Friday, 11 January 2008		**Room**	ALR 3
Time	14:00	**to** 15:30		

Authors	Title	Speaker
A. Bilbao-Terol, M.V. Rodriguez Uria, M. Arenas-Parra, B. Perez-Gladish	Applying fuzzy compromise programming to portfolio selection problem	Rodriguez Uria, M.V.

| D. Li, X.Y. Cui, S.S. Zhu | Loss of efficiency: Revisit of the mean-variance policy in dynamic portfolio selection | Li, D. |
| R. Caballero, T. Gomez, J. Molina, A. Fernandez, A.G. Hernandez-Diaz, F. Guerrero | A general model for multi-objective project portfolio selection | Hernandez-Diaz, A.G. |

Session No	**44**		
Session Title	Agriculture and Environment	**Chairman**	F. Wenstop
Day	Friday, 11 January 2008	**Room**	ALR 5
Time	14:00 **to** 15:30		
Authors	**Title**		**Speaker**
F. Wenstop, K. Meloysund	Steps towards a corporate evaluation system of environ-mental impacts of offshore petroleum activity		Wenstop, F.
M. Celik, I. Deha Er, Y. Ilker Topcu	MCDM approach on selection of suitable environmental management standard for Turkish ship management companies: EMAS or ISO 14001?		Ilker Topcu, Y.
E. Dooley, D. Smeaton, G. Sheath, S. Ledgard	Application of multiple criteria decision analysis in the New Zealand agricultural industry		Dooley, E.

Session No	**45**		
Session Title	Financial Applications	**Chairman**	C. Chianglin
Day	Friday, 11 January 2008	**Room**	CC
Time	16:00 **to** 17:00		
Authors	**Title**		**Speaker**
I. Akhisar, B. Karpak	Prioritizing of the commercial banks in Turkey: An AHP approach		Karpak, B.
C.Y. Chianglin	A personal financial planning model based on AHP and fuzzy goal programming		Chianglin, C.Y.

Session No	**46**		
Session Title	Classification	**Chairman**	Y. Tian
Day	Friday, 11 January 2008	**Room**	ALR 3
Time	16:00 **to** 17:00		
Authors	**Title**		**Speaker**
E. Furems	Knowledge-based multi-attribute classification problems structuring		Furems, E.
D. Zhang, Y. Tian, Y. Shi	Knowledge-incorporated MCLP classifier		Tian, Y.

Session No	47

Session Title Railway Capacity and Routing   **Chairman** X. Gandibleux

Day   Friday, 11 January 2008   **Room** ALR 5

Time   16:00   **to**   17:00

Authors	Title	Speaker
T. Schlechte, R. Borndoerfer	A suitable model for a bicriteria optimization approach to railway track allocation	Schlechte, T.
X. Gandibleux, P. Riteau, X. Delorme	RECIFE: A MCDSS for railway capacity	Gandibleux, X.

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