SESSION INDEX

Monday, 8:00 AM - 9:30 AM

MA-01: Some Models of Combinatorial Optimisation (Convention Centre: Ballroom 1) 1
MA-02: Optimization Under Uncertainty (Convention Centre: Ballroom 2) 1
MA-03: Railway Network Design (Convention Centre: Ballroom 3) 1
MA-05: Lessons from OR Consultancy Practice 1 (Convention Centre: Boardroom 1) 2
MA-08: Decision Analysis (Convention Centre: Boardroom 4) 2
MA-09: Simulation 1 (Convention Centre: Boardroom 5) 3
MA-11: Berth Allocation in Container Ports (Convention Centre: Committee Room 2) 3
MA-12: Finance: Dynamic models (Convention Centre: Committee Room 4) 3
MA-15: DEA Tutorial and Software Demo (Sandton Sun: Maroela South) 4
MA-16: Production and Inventory Management (Sandton Sun: Jacaranda) 4
MA-19: Condition Based Maintenance and Prognostics (Sandton Sun: Acacia) 4

Monday, 9:45 AM - 11:15 AM

MB-01: Official opening of IFORS 2008 Triennial Conference (Convention Centre: Ballroom 1) 5

Monday, 11:45 AM - 1:15 PM

MC-01: Combinatorial Optimization: Vehicle Routing 1 (Convention Centre: Ballroom 1) 5
MC-02: Optimization: Gradients and Constraints (Convention Centre: Ballroom 2) 6
MC-03: Robust and On-line Problems in Railways (Convention Centre: Ballroom 3) 6
MC-04: Applications of OR in Mining (Convention Centre: Ballroom 4) 6
MC-05: Lessons from OR Consultancy Practice 2 (Convention Centre: Boardroom 1) 7
MC-07: OR-in-Development 1 (Convention Centre: Boardroom 3) 7
MC-08: Facilitated Multi-Criteria Decision Analysis (Convention Centre: Boardroom 4) 8
MC-09: Discrete Event Simulation (Convention Centre: Boardroom 5) 8
MC-11: Container Port Design and Optimization (Convention Centre: Committee Room 2) 8
MC-12: Finance: Optimisation models (Convention Centre: Committee Room 4) 9
MC-13: Finance: Applications (Convention Centre: Committee Room 5) 9
MC-14: DEA: Applications 1 (Sandton Sun: Maroela North) 9
MC-15: DEA Theory: New developments 1 (Sandton Sun: Maroela South) 10
MC-16: Production Lines (Sandton Sun: Jacaranda) 10
MC-17: OR Software Applications (Sandton Sun: Oleander) 10
MC-18: Graphs and Networks 1 (Sandton Sun: Syringa) 11
MC-19: Reliability (Sandton Sun: Acacia) 11

Monday, 2:00 PM - 3:30 PM

MD-01: Combinatorial Optimization: Vehicle Routing 2 (Convention Centre: Ballroom 1) 12
MD-03: Optimisation and Railroad Scheduling Problems (Convention Centre: Ballroom 3) 12
MD-07: OR-in-Development 2 (Convention Centre: Boardroom 3) 12
MD-08: Multiobjective Optimization Methods (Convention Centre: Boardroom 4) 13
MD-09: Simulation 2 (Convention Centre: Boardroom 5) 13
MD-11: Resource Scheduling and Dispatching in Container Ports (Convention Centre: Committee Room 2) 14
MD-12: Finance: Financial modelling (Convention Centre: Committee Room 4) 14
MD-13: Finance: Stocks and bonds (Convention Centre: Committee Room 5) 14
MD-14: DEA: Applications 2 (Sandton Sun: Maroela North) 15
MD-16: Military Optimization Models (Sandton Sun: Jacaranda) 15
MD-17: Optimization Software (Sandton Sun: Oleander) 15
MD-18: Graphs and Networks 2 (Sandton Sun: Syringa) 16
MD-19: Maintenance: Spare parts and logistics (Sandton Sun: Acacia) 16

Monday, 4:00 PM - 5:30 PM

ME-01: Combinatorial Optimization: Routing Problems (Convention Centre: Ballroom 1) 17
ME-02: Linear Programming (Convention Centre: Ballroom 2) 18
ME-03: Timetabling and Scheduling in Railways (Convention Centre: Ballroom 3) 18
ME-04: Applications of OR in Agriculture (Convention Centre: Ballroom 4) 18
ME-07: OR-in-Development 3 (Convention Centre: Boardroom 3) 19
ME-08: Muliple Criteria Decision Aiding: Sorting problems (Convention Centre: Boardroom 4) 19
ME-09: Simulation 3 (Convention Centre: Boardroom 5) 19
ME-11: Container Shipping Flow (Convention Centre: Committee Room 2) 20
ME-12: Finance: Portfolio optimisation (Convention Centre: Committee Room 4) 20
ME-14: DEA: AHP / MCDM (Sandton Sun: Maroela North) 20
ME-16: Operations Management: Inventory risk, assortment, and pricing (Sandton Sun: Jacaranda) 21
ME-17: Modeling Languages and Solver Interfaces (Sandton Sun: Oleander) 21
ME-18: Survivable Telecommunications Network Design (Sandton Sun: Syringa) 21
ME-19: Maintenance 1 (Sandton Sun: Acacia) 22

Tuesday, 8:00 AM - 9:30 AM

TA-01: Combinatorial Optimization: Recent Advances in Scheduling (Convention Centre: Ballroom 1) 23
TA-02: Integer Programming (Convention Centre: Ballroom 2) 23
TA-03: Optimization Modeling for the Public Sector (Convention Centre: Ballroom 3) 23
TA-04: Sports and OR (Convention Centre: Ballroom 4) 24
TA-05: OR Education 1 (Convention Centre: Boardroom 1) 24
TA-07: Economic Development: Modelling and Finance (Convention Centre: Boardroom 3) 25
TA-08: Multicriteria Applications (Convention Centre: Boardroom 4) 25
TA-09: Facility Location and Routing (Convention Centre: Boardroom 5) 25
TA-10: Project Scheduling: Resource Allocation (Convention Centre: Boardroom 6) 26
TA-11: Operations Management: Health Care (Convention Centre: Committee Room 2) 26
TA-12: Finance: Revenue management and pricing (Convention Centre: Committee Room 4) 27
TA-13: Finance: Auctions (Convention Centre: Committee Room 5) 27
TA-14: DEA: Applications in transport (Sandton Sun: Maroela North) 27
TA-15: DEA: Applications in industry (Sandton Sun: Maroela South) 28
TA-16: Container Storage Planning (Sandton Sun: Jacaranda) 28
TA-17: Software Demos I (GAMS/AMPL) (Sandton Sun: Oleander) 28
TA-18: Telecommunications Trees and Flows (Sandton Sun: Syringa) 29
TA-19: Maintenance 2 (Sandton Sun: Acacia) 29

Tuesday, 10:00 AM - 11:00 AM

TB-01: Supply Chain Management (Convention Centre: Ballroom 1) 30

Tuesday, 11:30 AM - 1:00 PM

TC-01: Combinatorial Optimization: Data mining and clustering (Convention Centre: Ballroom 1) 30
TC-02: Discrete Optimization (Convention Centre: Ballroom 2) 31
TC-03: Multicriteria Public Sector Decision-Making (Convention Centre: Ballroom 3) 31
TC-04: Applications of OR in Forestry I (Convention Centre: Ballroom 4) 31
TC-05: OR Education 2 (Convention Centre: Boardroom 1) 32
TC-07: Healthcare policy analysis using simulation (Convention Centre: Boardroom 3) 32
TC-08: MCDA and Performance Assessment (Convention Centre: Boardroom 4) 33
TC-09: Urban Transportation (Convention Centre: Boardroom 5) 33
TC-10: Project Scheduling: Scheduling of Activities (Convention Centre: Boardroom 6) 33
TC-11: Operations Management: Supply Chains (Convention Centre: Committee Room 2) 34
TC-12: Finance: Option pricing (Convention Centre: Committee Room 4) 34
TC-13: Finance: Portfolio management (Convention Centre: Committee Room 5) 35
TC-14: DEA Theory: New developments 2 (Sandton Sun: Maroela North) 35

TC-15: Economic Development: Strategic Planning and Management (Sandton Sun: Maroela South) 35
TC-16: Air Transportation (Sandton Sun: Jacaranda) 36
TC-17: Software Demos II (AIMMS/MPL) (Sandton Sun: Oleander) 36
TC-18: Meta-heuristics for optimizing telecommunications networks (Sandton Sun: Syringa) 36
TC-19: Quality and Reliability (Sandton Sun: Acacia) 37

Tuesday, 2:00 PM - 3:30 PM

TD-01: Advanced Topics in Combinatorial Optimization (Convention Centre: Ballroom 1) 38
TD-02: Optimization Heuristics and Applications (Convention Centre: Ballroom 2) 38
TD-03: Complex Public Sector Social Problems (Convention Centre: Ballroom 3) 38
TD-04: Wine Supply Chain (Convention Centre: Ballroom 4) 39
TD-05: Bringing the real world of OR into the classroom 1 (Convention Centre: Boardroom 1) 39
TD-07: Efficient use of core hospital resources (Convention Centre: Boardroom 3) 39
TD-08: MCDA/SMAA (Convention Centre: Boardroom 4) 40
TD-09: Heuristic Approaches to Routing (Convention Centre: Boardroom 5) 40
TD-11: Supply Chain Optimization (Convention Centre: Committee Room 2) 41
TD-13: Finance: Risk analysis and management (Convention Centre: Committee Room 5) 41
TD-14: DEA Theory: New developments 3 (Sandton Sun: Maroela North) 41
TD-15: Economic Development: General Topics (Sandton Sun: Maroela South) 42
TD-16: Maritime logistics (Sandton Sun: Jacaranda) 42
TD-19: Quality and Availability (Sandton Sun: Acacia) 43

Tuesday, 4:00 PM - 5:30 PM

TE-01: Minimax Stochastic Optimization with Applications (Convention Centre: Ballroom 1) 43
TE-03: Public Sector Transport and Management (Convention Centre: Ballroom 3) 43
TE-04: Agribusiness Supply Chain (Convention Centre: Ballroom 4) 44
TE-05: Bringing the real world of OR into the classroom 2 (Convention Centre: Boardroom 1) 44
TE-07: Advanced Modeling Methods in Health Care (Convention Centre: Boardroom 3) 45
TE-08: Multiple Criteria Decision Analysis (Convention Centre: Boardroom 4) 45
TE-09: Routing Applications (Convention Centre: Boardroom 5) 45
TE-10: Scheduling Applications 1 (Convention Centre: Boardroom 6) 46
TE-13: Finance: Markov models and Valuation modelling (Convention Centre: Committee Room 5) 46
TE-14: DEA Theory: Recent developments in nonparametric frontier estimation (Sandton Sun: Maroela North) 47
TE-16: Information technology in logistics (Sandton Sun: Jacaranda) 47
TE-18: Wireless Telecommunications Networks (Sandton Sun: Syringa) 47

Thursday, 8:00 AM - 9:30 AM

RA-02: Optimization Methods (Convention Centre: Ballroom 2) 48
RA-03: Transportation Systems: Traffic Assignment Modelling (Convention Centre: Ballroom 3) 49
RA-04: Applications of OR in Forestry II (Convention Centre: Ballroom 4) 49
RA-07: Health Care for the Community (Convention Centre: Boardroom 3) 49
RA-08: Visual Aspects of MCDA (Convention Centre: Boardroom 4) 50
RA-09: Game Theory and Applications 1 (Convention Centre: Boardroom 5) 50
RA-10: Creating and Building IFORS (Convention Centre: Boardroom 6) 50
RA-11: Supply Chain Risk, Pricing, and Coordination (Convention Centre: Committee Room 2) 51
RA-12: Finance: Finance and banking (Convention Centre: Committee Room 4) 51
RA-14: DEA: Applications in education (Sandton Sun: Maroela North) 52
RA-16: Location and Layout (Sandton Sun: Jacaranda) 52
RA-19: Queues 1 (Sandton Sun: Acacia) 52

Thursday, 10:00 AM - 11:00 AM

RB-01: Humanitarian Logistics (Convention Centre: Ballroom 1) 53

Thursday, 11:30 AM - 1:00 PM

RC-02: Dynamic Programming (Convention Centre: Ballroom 2) 53
RC-03: Transportation Systems: Supply and Demand (Convention Centre: Ballroom 3) 53
RC-04: Optimization for sustainable production 1 (Convention Centre: Ballroom 4) 54
RC-07: Humanitarian Logistics (Convention Centre: Boardroom 3) 54
RC-08: Decision support systems for economic or environmental issues (Convention Centre: Boardroom 4) 54
RC-09: Game Theory and Applications 2 (Convention Centre: Boardroom 5) 55
RC-10: The Present State of IFORS (Convention Centre: Boardroom 6) 55
RC-11: Supply Chain Applications (Convention Centre: Committee Room 2) 55
RC-12: Finance: Financial modelling (Convention Centre: Committee Room 4) 56
RC-13: Scheduling Applications 2 (Convention Centre: Committee Room 5) 56
RC-14: DEA Theory: New developments 4 (Sandton Sun: Maroela North) 56
RC-15: OR for Sustainable Development 1 (Sandton Sun: Maroela South) 57
RC-16: Locational Planning (Sandton Sun: Jacaranda) 57
RC-18: Cutting and Packing 1 (Sandton Sun: Syringa) 58
RC-19: Queues 2 (Sandton Sun: Acacia) 58

Thursday, 2:00 PM - 3:30 PM

RD-02: Convex Optimization (Convention Centre: Ballroom 2) 59
RD-03: Arc Routing (Convention Centre: Ballroom 3) 59
RD-04: Optimization for sustainable production 2 (Convention Centre: Ballroom 4) 59
RD-05: OR Applications to Education (Convention Centre: Boardroom 1) 60
RD-06: Data Mining 1 (Convention Centre: Boardroom 2) 60
RD-07: Humanitarian Logistics (Convention Centre: Boardroom 3) 61
RD-09: Game Theory and Applications 3 (Convention Centre: Boardroom 5) 61
RD-10: The Future of IFORS (Convention Centre: Boardroom 6) 61
RD-13: Multicriteria Scheduling (Convention Centre: Committee Room 5) 62
RD-14: DEA: Applications in farms and agricultural (Sandton Sun: Maroela North) 62
RD-15: OR for Sustainable Development 2 (Sandton Sun: Maroela South) 63
RD-16: Pickup and Delivery Routing (Sandton Sun: Jacaranda) 63
RD-17: Energy: General (Sandton Sun: Oleander) 64
RD-18: Cutting and Packing 2 (Sandton Sun: Syringa) 64

Thursday, 4:00 PM - 5:30 PM

RE-02: Knapsack Problems and Extensions (Convention Centre: Ballroom 2) 64
RE-03: Military Simulation and Stochastic Models (Convention Centre: Ballroom 3) 64
RE-04: Job Shops and Assembly Lines (Convention Centre: Ballroom 4) 65
RE-05: Human Resources Management (Convention Centre: Boardroom 1) 65
RE-06: Data Mining 2 (Convention Centre: Boardroom 2) 65
RE-07: Improving policy in healthcare (Convention Centre: Boardroom 3) 66
RE-09: Decision Analysis: Methods and Processes (Convention Centre: Boardroom 5) 66
RE-11: Production Planning & Control (Convention Centre: Committee Room 2) 67
RE-13: Logistic Scheduling (Convention Centre: Committee Room 5) 67
RE-14: DEA Theory: New developments 5 (Sandton Sun: Maroela North) 67
RE-15: DEA and the Public Sector (Sandton Sun: Maroela South) 68
RE-16: Applications in logistics (Sandton Sun: Jacaranda) 68
RE-18: Cutting and Packing 3 (Sandton Sun: Syringa) 68

Friday, 8:00 AM - 9:30 AM

FA-01: Stochastic Models (Convention Centre: Ballroom 1) 69
FA-02: Nonlinear Optimization (Convention Centre: Ballroom 2) 69

FA-03: Military Threat Evaluation / DSS (Convention Centre: Ballroom 3) 70
FA-05: OR and Ethics (Convention Centre: Boardroom 1) 70
FA-06: Data Mining and Knowledge Management (Convention Centre: Boardroom 2) 71
FA-08: Decision Support Systems (Convention Centre: Boardroom 4) 71
FA-09: Group decision making and voting (Convention Centre: Boardroom 5) 72
FA-10: Regulatory Networks, Inhibitors and Drug Design (Convention Centre: Boardroom 6) 72
FA-11: Production Lot Sizing (Convention Centre: Committee Room 2) 72
FA-12: Finance: Emissions trading and power markets (Convention Centre: Committee Room 4) 72
FA-13: Just-in-Time Scheduling (Convention Centre: Committee Room 5) 73
FA-14: DEA: Applications in finance and banking (Sandton Sun: Maroela North) 73
FA-16: Urban transportation: planning and modeling (Sandton Sun: Jacaranda) 74
FA-17: Energy: Policy and Planning (Sandton Sun: Oleander) 74
FA-18: Cutting and Packing 4 (Sandton Sun: Syringa) 75
FA-19: Fuzzy Computing and Its Applications (Sandton Sun: Acacia) 75

Friday, 10:00 AM - 11:30 AM

FB-01: Markov Models and Brownian Motion (Convention Centre: Ballroom 1) 76
FB-02: Optimization and Local Search (Convention Centre: Ballroom 2) 76
FB-03: Military Metrics (Convention Centre: Ballroom 3) 76
FB-06: E-Commerce (Convention Centre: Boardroom 2) 77
FB-08: Problem Structuring and Solving (Convention Centre: Boardroom 4) 77
FB-09: Multi-objective decision-making (Convention Centre: Boardroom 5) 77
FB-10: Modelling and Prediction of Genes, Proteins and Their Structure (Convention Centre: Boardroom 6) 78
FB-11: Combinatorial optimization: models and algorithms (Convention Centre: Committee Room 2) 78
FB-12: Finance: Risk management in commodity markets (Convention Centre: Committee Room 4) 78
FB-13: Scheduling Independent tasks (Convention Centre: Committee Room 5) 79
FB-15: Economic Modeling (Sandton Sun: Maroela South) 79
FB-16: Urban Transit Planning and Operations (Sandton Sun: Jacaranda) 80
FB-17: Energy: Optimization (Sandton Sun: Oleander) 80
FB-18: Optimization and Metaheuristics (Sandton Sun: Syringa) 80
FB-19: Fuzzy Decision Analysis and Preference Structures (Sandton Sun: Acacia) 81

Friday, 12:00 PM - 1:00 PM

FC-01: Bringing Computers to the World (Convention Centre: Ballroom 1) 81