Program
Multidisciplinary International Conference on Scheduling : Theory and Applications (MISTA 2011), 9th - 12th August 2011, Phoenix, Arizona

Tuesday 9th August

Breakfast (served 06:30 to 08:30)

Opening and Welcome (08:45 - 09:00): Abbey

Plenary (09:00 - 10:00): Abbey (Chair: Graham Kendall)
Darrell Whitley
Quasi-Elementary Landscapes

Coffee/Tea (10:00 - 10:30)

Session S1 (10:30 - 12:30)

S1-A : Transport & Logistics I (Xavier) (Session Chair: Chris Potts)

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<tr>
<th>Time</th>
<th>Presentation</th>
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<tr>
<td>10:30</td>
<td><em>(004)</em> An Evolutionary Algorithm for the large Size One-Commodity Pickup and Delivery Travelling Salesman Problems, Borgulya I.</td>
<td>Of Interest to Me?</td>
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<tr>
<td>11:00</td>
<td><em>(049)</em> An MILP-Approach to the Optimization of Event-Bus Schedules: A Scheduling Application in the Tourism Sector, Brandinu G. and Trautmann N.</td>
<td>Of Interest to Me?</td>
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<tr>
<td>11:30</td>
<td><em>(091)</em> Schedule Recovery Strategies in Public and Freight Transportation Systems under Disruptions, Mirchandani P. and Li J-Q.</td>
<td>Of Interest to Me?</td>
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<tr>
<td>12:00</td>
<td><em>(036)</em> Train Scheduling in the UK using a Job Shop Scheduling Approach, Khosravi B., Bennell J.A. and Potts C.N.</td>
<td>Of Interest to Me?</td>
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S1-B : Job/Flow Shop Scheduling I (Delores) (Session Chair: Jeffrey Herrmann)

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<tr>
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<tr>
<td>10:30</td>
<td><em>(033)</em> Hybridized Genetic Algorithms to Schedule Interfering Job Sets on a Single Machine, Ramacher R. and Mönch L.</td>
<td>Of Interest to Me?</td>
</tr>
<tr>
<td>11:00</td>
<td><em>(010)</em> Scheduling Identical Jobs on Uniform Parallel Machines to Minimize Maximum Lateness, Lin Y.K., Hsieh F.Y. and Lin G.J.</td>
<td>Of Interest to Me?</td>
</tr>
<tr>
<td>11:30</td>
<td><em>(044)</em> Improving Schedule Stability in Single-Machine Rescheduling due to New Operation Insertion, Akkan C.</td>
<td>Of Interest to Me?</td>
</tr>
<tr>
<td>12:00</td>
<td><em>(005)</em> Generating Better Cyclic Fair Sequences Faster with Aggregation, Herrmann J.W.</td>
<td>Of Interest to Me?</td>
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<tr>
<th>Time</th>
<th>Session S1-C: Scheduling (Joshua Tree) (Session Chair: Richard Dobson)</th>
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**Lunch (12:30 - 14:00)**

**Session S2 (14:00 - 15:30)**

**S2-A : Healthcare I (Xavier) (Session Chair: Jonathan Thompson)**

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<tr>
<th>Time</th>
<th>Session S2-A: Healthcare I (Xavier) (Session Chair: Jonathan Thompson)</th>
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**S2-B : Job/Flow Shop Scheduling II (Delores) (Session Chair: Vincent T'Kindt)**

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<th>Time</th>
<th>Session S2-B: Job/Flow Shop Scheduling II (Delores) (Session Chair: Vincent T'Kindt)</th>
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S2-C : (Joshua Tree)

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Coffee/Tea (15:30 - 16:00)

Session S3 (16:00 - 17:00)

S3-A : Decision-making Under Uncertainty I (Xavier) (Session Chair: Stein Wallace)

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<th>Time</th>
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<tr>
<td>16:00</td>
<td>(025) Dynamic Data Structures for Taskgraph Scheduling Policies with Applications in OpenCL Accelerators, Mareček J., Parkes A. J., Burke E.K., Elliot R., Francis H. and Lokhmotov A.</td>
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S3-B : Job/Flow Shop Scheduling III (Delores) (Session Chair: Nodari Vakhania)

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<tr>
<td>16:00</td>
<td>(064) Hybridizing Local Search with MIP for Unrelated Parallel Machine Scheduling Problems with Makespan Minimization, Fleszar K. and Charalambous C.</td>
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<td>16:30</td>
<td>(020) Minimizing the Maximal Lateness on a Single-Machine: A New Polynomially Solvable Case, Vakhania N.</td>
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S3-C : Heuristics (Joshua Tree) (Session Chair: Barry McCollum)

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<td>16:00</td>
<td>(047) A GRASP Heuristic to the Extended Car Sequencing Problem, Rizzo L.M. and Urrutia S.</td>
<td>Of Interest to Me?</td>
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<td>16:30</td>
<td>(087) Ring Out the Bells, Donaldson J., McCollum B. and Scott S.</td>
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19:00: Reception (Centre Bistro, 21E 6 Street)
Snacks and Drinks

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### Wednesday 10th August

**Breakfast (served 06:30 to 08:30)**

**Plenary (09:00 - 10:00): Abbey (Chair: John Fowler)**

**Kenneth Fordyce**  
The Ongoing Challenge – A Responsive Enterprise-Wide Demand Supply Network for Semiconductor Based Package Goods – Something for Everyone

**Coffee/Tea (10:00 - 10:30)**

### Session S4 (10:30 - 12:30)

**S4-A: Transport & Logistics II (Xavier) (Session Chair: Rodrigo Silva-Lugo)**

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**S4-B: Job/Flow Shop Scheduling IV (Delores) (Session Chair: Philipp Baumann)**

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#### S4-C: Decision-making Under Uncertainty II (Joshua Tree) (Session Chair: Lavanya Marla)

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<tr>
<td>10:30</td>
<td>(006) Facility Layout with Random Demand: A Reduction to the Classical Deterministic QAP, Wallace S.W. and Zhao Y.</td>
<td>Of Interest to Me?</td>
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<tr>
<td>11:00</td>
<td>(051) Deterministic and Stochastic Models for Investment in Different Technologies for Electricity Production in the Long Period, Vespucci M.T., Bertocchi M., Innorta M. and Zigrino S.</td>
<td>Of Interest to Me?</td>
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<tr>
<td>11:30</td>
<td>(074) Using Differential Evolution to Identify Fuzzy Measures for the Exam Timetabling Problem, Burke E.K. and Pais T.C.</td>
<td>Of Interest to Me?</td>
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<tr>
<td>12:00</td>
<td>(078) A Decomposition Approach for Shipment Pickup and Delivery with Time-Windows Under Uncertainty, Marla L. and Barnhart C.</td>
<td>Of Interest to Me?</td>
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#### Lunch (12:30 - 14:00)

#### Session S5 (14:00 - 15:30)

#### S5-A: Systems to Build Systems (Xavier) (Session Chair: Greet Vanden Berghe)

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<td>14:00</td>
<td>(034) A Hyper-Heuristic Approach to Solving School Timetabling Problems, Pillay N.</td>
<td>Of Interest to Me?</td>
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<tr>
<td>14:30</td>
<td>(038) Two Phases Parallel Hyperheuristic Approach to the Bus Driver Scheduling Problem, Li S., Hajjam A., Créput J.C. and Koukam A.</td>
<td>Of Interest to Me?</td>
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<tr>
<td>15:00</td>
<td>(057) A New Hyper-Heuristic Implementation in HyFlex: A Study on Generality, Misir M., Verbeeck K., De Causmaecker P. and Vanden Berghe G.</td>
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#### S5-B: Job/Flow Shop Scheduling V (Delores) (Session Chair: Todor Dimitrov)

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<tr>
<td>14:00</td>
<td>(058) Scheduling of Large Dynamic Job Shop Problems by Concurrent Non-Blocking Threads, Dimitrov T., Baumann M. and Schenk M.</td>
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<tr>
<td>14:30</td>
<td>(079) Job Scheduling to Minimize Weighted Completion Time Variance on Identical Parallel Machines, Sun Y., Li X. and Fowler J.W.</td>
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<td>15:00</td>
<td>(028) Automated Scheduling at a Joinery Site, Smet P., Vancroonenburg W. and Vanden Berghe G.</td>
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<td>14:00</td>
<td>Coffee/Tea</td>
<td>Coffee/Tea (15:30 - 16:00)</td>
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<td>Session S6 (16:00 - 17:00)</td>
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19:00 (for 19:45 dinner) Conference Banquet (Carson Ballroom, Old Main Street)
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Multidisciplinary International Conference on Scheduling : Theory and Applications (MISTA 2011), 9th - 12th August 2011, Phoenix, Arizona

Thursday 11th August

Breakfast (served 06:30 to 08:30)

Plenary (09:00 - 10:00): Abbey (Chair: Barry McCollum)

Kevin Glazebrook
Stochastic scheduling: A short history of index policies and some key recent developments

Coffee/Tea (10:00 - 10:30)

Session S7 (10:30 - 12:30)

S7-A : Semiconductor Scheduling (Xavier) (Session Chair: James Morrison)

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<td>10:30</td>
<td>(070) Scheduling Wafer Release in Clustered Photolithography Tools, Park K. and Morrison J.R.</td>
<td>Of Interest to Me?</td>
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<td>11:30</td>
<td>(085) Algorithmic Parallelization in Multi-Criteria Semiconductor Scheduling, Rainwater C.E., Mason S.J., Fowler J.W. and Mönch L.</td>
<td>Of Interest to Me?</td>
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<tr>
<td>12:00</td>
<td>(081) Scheduling Job Families on Parallel Machines with a Bi-Criteria Objective Function under Time Constraints, Obeid A., Dauzére-Pérès S., and Yugma C.</td>
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Immediately following this session there will be a meeting of the IEEE RAS Technical Committee on Semiconductor Manufacturing Automation. It will be held in the Xavier conference room from 12:35 - 12:50 pm

12:35 12:50 Meeting of the IEEE Technical Committee on Semiconductor Manufacturing Automation (all welcome)
### Program

**Multidisciplinary International Conference on Scheduling: Theory and Applications (MISTA 2011), 9th - 12th August 2011, Phoenix, Arizona**

#### S7-B: Job/Flow Shop Scheduling VI (Delores) (Session Chair: Roman Čapek)

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<td>11:00</td>
<td>(045) Impact of Core Precedences in a Cyclic RCPSP with Temporal Constraints, Hanzálek Z. and Hanen C.</td>
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<td>(046) Optimal Job Insertion in the No-Wait Job Shop, Bürgy R. and Gröflin H.</td>
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<td>(056) A GRASP Approach for Scheduling Jobs with Incompatible Families on Parallel Batch Machines, Almeder C. and Mönch L.</td>
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<td>(019) Minimizing Total Weighted Tardiness and Total Processing Costs for the Scheduling with Alternative Process Plans, Čapek R., Šucha P. and Hanzálek Z.</td>
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#### S7-C: Real World Applications (Joshua Tree) (Session Chair: Tomáš Müller)

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<td>(077) The Airport Baggage Sorting Station Allocation Problem, Ascó A., Atkin J.A.D. and Burke E.K.</td>
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<td>(048) SDP Relaxations for Two Stage OFDMA Networks with and without Probabilistic Constraints, Adasme P., Lisser A. and Soto I.</td>
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<td>(040) Rapid Development of University Course Timetables, Rudová H. and Müller T.</td>
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#### Lunch (12:30 - 14:00)

#### Session S8 (14:00 - 15:30)

**S8-A: Transport & Logistics III (Xavier) (Session Chair: Chung-Wei Shen)**

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<td>14:30</td>
<td>(037) Two-Level Water-Flow Algorithm for Vehicle Routing Problems, Hieu T.T. and Ming N.K.</td>
<td>Of Interest to Me?</td>
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<td>(027) Supply Logistics Synchronization: Scale Development and Empirical Study of Chinese Manufacturing, Xie L., Ma S. Huang P. and Gui H.</td>
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<td>(054) An Insertion Heuristic for Coordinated Zoning Paratransit Systems, Shen C-W. and Quadrifoglio L.</td>
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S8-B : Job/Flow Shop Scheduling VII (Delores) (Session Chair: Alvaro Julian Lozano)

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<td>14:00</td>
<td>14:30 (067) Single Machine Scheduling with Delivery Dates and Cumulative Payoffs, Seddik Y., Gonzales C. and Kedad-Sidhoum S.</td>
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<td>14:30</td>
<td>15:00 (069) Scheduling of Parallel Machines with Sequence-Dependent Batches and Product Incompatibilities in an Automotive Glass Facility, Lozano A.J. and Medaglia A.L.</td>
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<td>15:00</td>
<td>15:30 (080) Single Machine Scheduling with Interfering Job Sets to Minimize Total Weighted Completion Time and Maximum Lateness, Khowala K., Fowler J., Keha A. and Balasubramanian H.</td>
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S8-C : Evolutionary Algorithms (Joshua Tree) (Session Chair: Dmitriy Borodin)

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker(s)</th>
<th>Of Interest to Me?</th>
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<tbody>
<tr>
<td>14:00</td>
<td>14:30 (043) A Multi Species Evolutionary Algorithm for Tool Group Scheduling in Semiconductor Manufacturing, Uhlig T. and Rose O.</td>
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<td>14:30</td>
<td>15:00 (050) Adapting Particle Swarm Optimization for the Flexible Flow Line, Kurz M.E. and Sankaran V.</td>
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<td>15:00</td>
<td>15:30 (066) Case Study: An Effective Genetic Algorithm for the Chemical Batch Production Scheduling, Borodin D., Van Vreckem B. and De Bruyn W.</td>
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Coffee/Tea (15:30 - 16:00)

Conference Close

Dinner: On your Own: ENJOY
Program

Multidisciplinary International Conference on Scheduling : Theory and Applications (MISTA 2011), 9th - 12th August 2011, Phoenix, Arizona

Friday 12th August

Social Day