2011 IEEE Symposium on Computational Intelligence in Scheduling

(SCIS 2011)

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Wednesday, April 15

14:40 – 16:00

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Chairs: Charles D. Pack (Monmouth University, USA), Rong Qu (University of Nottingham, United Kingdom)

**Using Metaheuristics and Queueing Models to Optimize Schedules in the Academic Enterprise** ............... 1
  - Charles D. Pack (Monmouth University, USA)
  - Edward W. Christensen (Monmouth University, USA)
  - Ronda M. Potter (Glastonbury Musings, USA)
  - Leonard Forys (Glastonbury Musings, USA)
  - Ashok Erramilli (Optessa, Inc., USA)

**Combining Basic Heuristics for Solving Multi-objective Scheduling Problems** ........................................ 9
  - Christian Grimme (TU Dortmund, Germany)
  - Joachim Lepping (TU Dortmund University, Germany)

**Optimization of Task Assignment to Collaborating Agents** ........................................................................ 17
  - Irfan Younas (Royal Institute of Technology, Sweden)
  - Farzad Kamrani (Royal Institute of Technology, Sweden)
  - Christian Schulte (Royal Institute of Technology, Sweden)
  - Rassul Ayani (Royal Institute of Technology, Sweden)

**Lower Bounds for Single Machine Subproblems Occurring in Weighted Tardiness Oriented Shifting Bottleneck Procedures** ........................................................................................................... 25
  - Roland Braune (Johannes Kepler University, Austria)
  - Günther Zäpfel (Johannes Kepler University, Austria)
  - Michael Affenzeller (Upper Austria University of Applied Sciences, Austria)

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PS12: CISched - 2011 Poster Session

**Quantum Inspired Evolutionary Algorithm for Joint User Selection and Power Allocation for Uplink Cognitive MIMO Systems** ................................................................. 33
  - U. Pareek (Simon Fraser University, Canada)
  - M. Naeem (Simon Fraser University, Canada)
  - Daniel C. Lee (Simon Fraser University, Canada)
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S82: CISched Session 2
Chair: D. Landa Silva

A Heuristic Algorithm For Nurse Scheduling With Balanced Preference Satisfaction
Ademir Constantino (State University of Maringá, Brazil)
Everton de Melo (State University of Maringá, Brazil)
Dario Landa-Silva (University of Nottingham, United Kingdom)
Wesley Romão (State University of Maringá, Brazil) .......................................................... 39

Scheduling a Triple Round Robin Tournament for the Finnish National Ice Hockey League for Players Under 20
Kimmo Nurmi (Satakunta University of Applied Sciences, Finland)
Jari Kyngäs (Satakunta University of Applied Sciences, Finland)
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Sports scheduling with generalized breaks
Dries Goossens (K.U.Leuven, Belgium)
Frits C.R. Spieksma (K.U.Leuven, Belgium) .......................................................................................... 54

TEMPLE - A Domain Specific Language for Modeling and Solving Staff Scheduling Problems
Johannes Gärtner (Ximes Inc., Austria)
Nysret Musliu (Vienna University of Technology, Austria)
Werner Schafhauser (Ximes GmbH., Austria)
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