

Advances in Computer Games 2009

Palacio del Condestable, Pamplona, Spain

Monday, May 11, 2009

11.30-12.15 Official opening in the Townhall (100m from the venue).

12.30-13.00 Opening

Session 1 Chair: Jaap van den Herik

13.00-13.25 *Automated Discovery of Search-Extension Features*

Skowronski, Pálmi; Björnsson, Yngvi; Winands, Mark H. M.

13.25-13.50 *Deriving Concepts and Strategies from Chess Tablebases*

Guid, Matej; Mozina, Martin; Sadikov, Aleksander; Bratko, Ivan

13.50-14.00 break

14.00-14.25 *Solving Kriegspiel endings with brute force: the case of KR vs. K*

Ciancarini, Paolo; Favini, Gian Piero

14.25-14.50 *Conflict Resolution of Chinese Chess Endgame Knowledge Base*

Chen, Bo-Nian; Liu, Pangfeng; Hsu, Shun-Chin; Hsu, Tsan-sheng

14.50-15.20 break

Session 2 Chair: Ryan Hayward

15.20-15.45 *Experimenting Upper-Confidence-Trees in Havannah*

Teytaud, Fabien; Teytaud, Olivier

15.45-16.10 *6-man Chess and Zugzwangs*

Bleicher, Eiko; Haworth, Guy McCrossan

16.10-16.20 break

16.20-16.35 *Optimal Analyses for $3 \times n$ AB Games in the Worst Case*

Huang, Li-Te; Lin, Shun-Shii

16.35-17.00 *Data Assurance in Opaque Computations*

Hurd, Joe; Haworth, Guy McCrossan

Tuesday, May 12, 2009

9.00-9.10 Announcements

Session 3 Chair: Mark Winands

9.10-9.35 *A Study of UCT and its Enhancements*

Tom, David Tang Ho; Mueller, Martin

9.35-10.00 *A Lock-free Multithreaded Monte-Carlo Tree Search Algorithm*

Enzenberger, Markus; Mueller, Martin

10.00-10.25 *Adding expert knowledge and exploration in Monte-Carlo Tree Search*

Rimmel, Arpad; Chaslot, Guillaume; Fiter, Christophe; Hoock, Jean-

Baptiste; Teytaud, Olivier

10.25-10.55 break

Session 4 **Chair: Yngvi Björnsson**

- 10.55-11.20 *Randomized Parallel Proof-Number Search*
Saito, Jahn-Takeshi; Winands, Mark; van den Herik, Jaap
- 11.20-11.45 *Hex, braids, the crossing rule, and XH-search*
Henderson, Philip; Arneson, Broderick; Hayward, Ryan B.
- 11.45-12.10 *Plans, Patterns, and Move Categories Guiding a Highly Selective Search*
Trippen, Gerhard Wolfgang

Wednesday, May 13, 2009

9.00-9.10 Announcements

Session 5 **Chair: Pieter Spronck**

- 9.10-9.35 *Performance and Prediction: Bayesian Modelling of Fallible Choice in Chess*
Haworth, Guy McCrossan; Regan, Ken; Di Fatta, Giuseppe
- 9.35-10.00 *On Draw K-in-a-Row Games*
Chiang, Sheng-Hao; Wu, I-Chen; Lin, Ping-Hung
- 10.00-10.25 *Incongruity-Based Adaptive Game Balancing*
Van Lankveld, Giel; Spronck, Pieter
- 10.25-10.55 break

Session 6 **Chair: Li-Te Huang**

- 10.55-11.20 *Evaluation Function Based Monte-Carlo LOA*
Winands, Mark; Björnsson, Yngvi
- 11.20-11.45 *Monte-Carlo Kakuro*
Cazenave, Tristan
- 11.45-12.10 *Monte-Carlo Tree Search in Settlers of Catan*
Szita, István; Chaslot, Guillaume; Spronck, Pieter
- 12.10-12.30 Closing