GCM 2012

Fourth International Workshop on Graph Computation Models Bremen, Germany, 28-29 September, 2012

Part of ICGT2012

Programme

Location: GW1 B0100

Friday, September 28th 2012

14:25 Welcome address

14:30-16:00 Session 1 (Verification) [chair: Rachid Echahed]

- Verifying Total Correctness of Graph Programs. Ch. M. Poskitt and D. Plump.
- HR* graph conditions between counting-monadic second-order and second-order graph formulas.
 H. Radke.
- A Graph Transformational View on Reductions in NP. M. Ermler, S. Kuske, M. Luderer and C. Von Totth.

16:00-16:30 Break

16:30-17:30 Session 2 (Applications and Tools) [chair: Detlef Plump]

- Co-Transformation of Type and Instance Graphs Supporting Merging of Types with Retyping. F. Mantz, Y. Lamo and G. Taentzer.
- **Big Red: A Development Environment for Bigraphs.** A. Faithfull, G.Perrone and Th. Hildebrandt.
- XL4C4D -- Adding the Graph Transformation Language XL to CINEMA. O. Kniemeyer and W.Kurth.

17:30 GCM2012 PC meeting

19:00 GCM Dinner

Saturday, September 29th 2012

9:30-10:30 Session 3 (Formal Languages) [chair: Hans-Jörg Kreowski]

- Some Remarks on Derivation Languages of DPO Graph Transformation Systems. N. E. Flick.
- Some Language Theory for DPO Graph Transformation Systems: Closure Properties, N. E. Flick.

10:30-11:00 Break

11:00-12:30 Session 4 (Rewriting Approaches) [chair: Dirk Janssens]

- Graph Rewriting with Contextual Refinement. B. Hoffmann.
- Parallel graph grammars with instantiation rules allow efficient structural factorization of virtual vegetation. K. Smolenova, W. Kurth and P.-H. Cournede.
- Generalized Cayley Graphs and Cellular Automata over them. S. Martiel and P. Arrighi.

12:30 Closing

12:45 Lunch