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Fifth Internation Conference on
Computability and Complexity in Analysis
August 21-24, 2008, Hagen, Germany
provisional programme

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CCA 2008

Thursday, August 21

08:45	Welcome: **Vasco Brattka**
09:00	Invited Talk: **Ker-I Ko,** *Computational Complexity of Continuous Geometric Problems*
10:00	**Volker Bosserhoff,** *On the Effective Existence of Schauder Bases*
10:30	Coffee Break
11:00	**Valentin Andreev, Dale Daniel and Timothy McNicholl,** *Technical Report: computation on the extended complex plane and conformal mapping of multiply-connected domains*
11:30	**Manuel Campagnolo, Kerry Ojakian,** *Characterizing Computable Analysis with Differential Equations*
12:00	**Pieter Collins,** *Computability and Representations of the Zero Set*
12:30	Lunch Break
14:00	Retirement Celebration for Prof. Dr. Klaus Weihrauch at the Informatikzentrum, University of Hagen
14:30	Invited Talk: **Douglas Bridges,** *Dynamical systems, compact orbits, and continuous group homomorphisms*
	Coffee Break
16:30	Invited Talk: **Peter Hertling,** *Topology and Computation*

Friday, August 22

08:30	Invited Talk: **Jeffery Zucker,** *A formalisation of the theory of synchronous concurrent algorithms*
09:30	**Arno Pauly,** *Representing Measurement Results*
10:00	**Ruth Dillhage, Vasco Brattka,** *Computability of the Metric Projection Onto Finite-dimensional Linear Subspaces*
10:30	Coffee Break
11:00	**Guido Gherardi and Alberto Marcone,** *How much incomputable is the separable Hahn-Banach theorem?*
11:30	**Pieter Collins and Daniel S. Graça,** *Effective Computability of Solutions of Ordinary Differential Equations – The Thousand Monkey Approach*
12:00	**Willem Fouché,** *An algorithmic construction of quantum circuits of high descriptive complexity*
12:30	Lunch Break
14:00	Invited Talk: **Martín Escardó,** *Exhaustible sets in higher-type computation*
15:00	**Zvonko Iljazovic,** *Chainable and Circularly Chainable Co-Recursively Enumerable Sets*
15:30	**Margarita Korovina and Oleg Kudinov,** *Towards Computability over Effectively Enumerable Topological*
16:00	Coffee Break
16:30	**Davorin Lešnik,** *Constructive Urysohn's Universal Metric Space*
17:00	**Jens Blanck, Viggo Stoltenberg-Hansen, John Tucker,** *Stability for effective algebras*
17:30	**Christine Gaßner,** *On Relativizations of the P =? NP Question for Several Structures*

Saturday, August 23

08:30	Invited Talk: **Xizhong Zheng,** *A Computability Theory of Real Numbers*
09:30	**Robert Rettinger,** *Lower Bounds on the Continuation of Holomorphic Functions*
10:00	**Victor Selivanov,** *On the Difference Hierarchy in Countably Based T_0-Spaces*
10:30	Coffee Break
11:00	**Norbert Müller and Xishun Zhao,** *Jordan Areas and Grids*
11:30	**Petrus H. Potgieter,** *Sets deemed recursive in Euclidean space*
12:00	**Robert Rettinger, Klaus Weihrauch and Ning Zhong,** *Complexity of Blowup Problems*
12:30	Lunch Break
14:00	**Takakazu Mori, Mariko Yasugi and Yoshiki Tsujii,** *Integral of two-dimensional Fine-computable functions*
14:30	**Hideki Tsuiki and Shuji Yamada,** *On Finite-time Computability Perserving Conversions*
15:00	excursion

Sunday, August 24

08:30	Invited Talk: **Andrej Bauer,** *Efficient Computation with Dedekind Reals*
09:30	**Matthias Schröder,** *An Effective Tietze-Urysohn Theorem for QCB-Spaces*
10:00	**Svetlana Selivanova and Victor Selivanov,** *Computing Solutions of Symmetric Hyperbolic Systems of PDE's*
10:30	Coffee Break
11:00	**Jöran Mielke,** *Refined Bounds on Kolmogorov Complexity of ? -Languages*
11:30	**Martin Ziegler and Wouter M. Koolen,** *Kolmogorov Complexity Theory over the Reals*
12:00	**Dieter Spreen,** *On the Continuity of Effective Multifunctions*
12:30	Lunch Break
14:00	Invited Talk: **Sebastiaan Terwijn,** *Reductions by computable functionals*
15:00	**Ludwig Staiger,** *On Oscillation-free e-random Sequences*
15:30	Closing of the Conference

All talks excepting on Thursday 21 afternoon will be held in the ARCADEON (bus 515, 522,526).
The talks on Thursday 21 will be held in the Informatikzentrum, FernUniversität Hagen.