

Second International Conference on

Computability and Complexity in Analysis



August 25–29, 2005, Kyoto, Japan

	Program
Thursday, August 25	
1110110	Satellite Seminar Lectures
10:00-1	
13:00-1	
15:00-1	,
	v, August 26
Satellite Seminar Lectures	
10:00-2	
13:30-1	
15:30-1	
18:00	Reception
Saturday, August 27	
08:30	Arrival
09:00	Welcome: Hiroyuki Tomita , Dean of the Graduate School of Human and Environmental Studies
09:05	Invited Talk: Masami Hagiya, Molecular Computing and Real Number Computing
10:05	Coffee Break
10:30	Klaus Weihrauch, Multi-Functions on Multi-Represented Sets are Closed under Flowchart Programming
11:00	Tanja Grubba, Klaus Weihrauch, A Computable Version of Dini's Theorem for Topological Spaces
11:30	Hiroyasu Kamo, Computability and Computable Uniqueness of Urysohn's Universal Metric Space
12:00	Lunch Break
14:00	Matthias Schröder, Alex Simpson, Representing Probability Measures using Probabilistic Processes
14:30	Santiago Figueira, Frank Stephan, Guohua Wu, Randomness and Universal Machines
15:00	Robert Rettinger, Xizhong Zheng, A Hierarchy of Turing Degrees for Divergence Bounded Computable Real
	Numbers
15:30	Coffee Break
16:00	Fuxiang Yu, Arthur Chou, Ker-I Ko, On the Complexity of Finding Circumscribed Rectangles for a Two-Dimensional Domain
16:30	Tien D. Kieu, Mathematical Computability Questions for some Classes of Linear and Non-Linear Differential
	Equations Originated from Hilbert's Tenth Problem
18:30	Dinner
Sunday, August 28	
09:00	Invited Talk: Vasco Brattka, Some Aspects of Computable Functional Analysis
10:00	Coffee Break
10:30	Douglas Bridges, Luminiţa Vîţă, An Extension Theorem for Ultraweakly Continuous Linear Functionals on $\mathcal{B}(X,Y)$
11:00	Douglas Bridges, Robin Havea, Peter Schuster, Ideals in Constructive Banach Algebra Theory
11:30	Satoru Yoshida, Generalized Functions with Pseudobounded Support in Constructive Mathematics
12:00	Lunch Break
14:00	Douglas Bridges, Luminiţa Vîţă, Proximal Connectedness
14:30	Andrej Bauer, Paul Taylor, The Dedekind Reals in Abstract Stone Duality
15:00	Paul Taylor, A Lambda Calculus for Real Analysis
15:30	Coffee Break
16:00	Takakazu Mori, Yoshiki Tsujii, Mariko Yasugi, Fine Computable Functions and Effective Fine Convergence
16:30	Mariko Yasugi, Takakazu Mori, Yoshiki Tsujii, Effective Sequence of Uniformities and its Effective Limit
Monday, August 29	
09:00	Invited Talk: Daisuke Takahashi, Low Temperature Limit of Equations — Hidden Discrete Structure
10:00	Coffee Break
10:30	Yohji Akama, Shinji Iizuka, Real Number Representations of Graph-Directed IFS Attractors
11:00	Branimir Lambov, RealLib: an Efficient Implementation of Exact Real Arithmetic
11:30	Coffee Break Martin Ziaglan Effectively Open Bool Functions
11:45 12:15	Martin Ziegler, Effectively Open Real Functions Peter Hertling, A Sequentially Computable Function that is not Effectively Continuous at any Point
12:45	Closing of the Conference
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