International Conference on Theoretical and Mathematical Foundations of Computer Science 2008

(TMFCS-08)

Orlando, Florida, USA 7-10 July 2008

Editors:

Zoran Majkic R. Radha Michael Sipser Daming Wei

ISBN: 978-1-61567-720-7

Printed from e-media with permission by:

Curran Associates, Inc. 57 Morehouse Lane Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2008) by the International Society for Research in Science and Technology All rights reserved.

Printed by Curran Associates, Inc. (2010)

For permission requests, please contact the International Society for Research in Science and Technology at the address below.

ISRST (public relations) PO Box 2464 Tallahassee, FL 32316 - 2464 USA

isrst@isrst.org

Additional copies of this publication are available from:

Curran Associates, Inc. 57 Morehouse Lane Red Hook, NY 12571 USA Phone: 845-758-0400

Phone: 845-758-0400 Fax: 845-758-2634

Email: curran@proceedings.com Web: www.proceedings.com

Contents

The Complexity of Identifying Finite Abelian Groups
The rational approximations of a class of continued fractions
Coalgebraic Specification of Query Computation in Intensional P2P Database Systems14 Zoran Majkic
Abstract Database Category Based on Relational-query Observations24 Zoran Majkic
Design and Implementation of Multi-Completion Procedures with Termination Checking33 Haruhiko Sato, Masahito Kurihara
Regular Languages up to Star Height 1 and the Difference Shrinking Acceptance Probability41 Michael Hartwig, Somnuk Phon-Amnuaisuk
Chromatic Numbers of Kneser-Related Graphs
Network Properties of (<i>t</i> , <i>r</i>)-regular graphs for small <i>t</i>
On Finite Semigroup Cross-Sections and Complete Rewriting Systems
On the Universality of Normalized Metrics64 Frank J. Balbach
Graph Splicing Systems
A Graph Rewriting Model of Concurrent Programs with Higher-Order Communication80 Masaki Murakami
On Some New Arithmetical Convolutions-1
Model of Granular Computing

Encoding cryptographic primitives in a calculus with polyadic synchronization	102
Decomposition and Scanning Optimization Algorithms for TSP	110
'Cwj qt' K of gz	