

Table of Contents

Tutorials

Learning Finite State Machines	1
<i>Colin de la Higuera</i>	

Special Theme Tutorials

Developing Computational Morphology for Low- and Middle-Density Languages	11
<i>Kemal Oflazer</i>	

Invited Papers

<i>fsm2</i> – A Scripting Language Interpreter for Manipulating Weighted Finite-State Automata	13
<i>Thomas Hanneforth</i>	
Selected Operations and Applications of n -Tape Weighted Finite-State Machines	31
<i>André Kempe</i>	
OpenFst	47
<i>Johan Schalkwyk</i>	

Special Theme Invited Talks

Morphological Analysis of Tone Marked Kinyarwanda Text	48
<i>Jackson Muhirwe</i>	

Regular Papers

Minimizing Weighted Tree Grammars Using Simulation	56
<i>Andreas Maletti</i>	
Compositions of Top-Down Tree Transducers with ε -Rules	69
<i>Andreas Maletti and Heiko Vogler</i>	
Reducing Nondeterministic Finite Automata with SAT Solvers	81
<i>Jaco Geldenhuys, Brink van der Merwe, and Lynette van Zijl</i>	
Joining Composition and Trimming of Finite-State Transducers	93
<i>Johannes Bubenzer and Kay-Michael Würzner</i>	

Special Theme Extended Abstracts

Porting Basque Morphological Grammars to *foma*, an Open-Source
Tool 105
 Iñaki Alegria, Izaskun Etxeberria, Mans Hulden, and
 Montserrat Maritxalar

Describing Georgian Morphology with a Finite-State System 114
 Oleg Kapanadze

Finite State Morphology of the Nguni Language Cluster: Modelling
and Implementation Issues 123
 Laurette Pretorius and Sonja Bosch

A Finite State Approach to Setswana Verb Morphology 131
 Laurette Pretorius, Biffie Viljoen, Rigardt Pretorius, and Ansu Berg

Competition Announcements

Zulu: An Interactive Learning Competition 139
 David Combe, Colin de la Higuera, and Jean-Christophe Janodet

Author Index 147