SIGFSM Workshop on Statistical NLP and Weighted Automata

Held at ACL 2016

Berlin, Germany
12 August 2016

ISBN: 978-1-5108-2771-4

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© (2016) by the Association for Computational Linguistics
All rights reserved.

Printed by Curran Associates, Inc. (2016)

For permission requests, please contact the Association for Computational Linguistics
at the address below.

Association for Computational Linguistics
209 N. Eighth Street
Stroudsburg, Pennsylvania 18360

Phone: 1-570-476-8006
Fax: 1-570-476-0860

acl@aclweb.org

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2633
Email: curran@proceedings.com
Web: www.proceedings.com

Table of Contents

Equivalences between ranked and unranked weighted tree automata via binarization
Toni Dietze 1

Adaptive importance sampling from finite state automata
Christoph Teichmann, Kasimir Wansing and Alexander Koller 11

Transition-based dependency parsing as latent-variable constituent parsing
Mark-Jan Nederhof 21

Distributed representation and estimation of WFST-based n-gram models
Cyril Allauzen, Michael Riley and Brian Roark 32

Learning transducer models for morphological analysis from example inflections
Markus Forsberg and Mans Hulden 42

Data-driven spelling correction using weighted finite-state methods
Miikka Silfverberg, Pekka Kauppinen and Krister Lindén 51

EM-training for weighted aligned hypergraph bimorphisms
Frank Drewes, Kilian Gebhardt and Heiko Vogler 60

On the correspondence between compositional matrix-space models of language and weighted automata
Shima Asaadi and Sebastian Rudolph 70

Pynini: A Python library for weighted finite-state grammar compilation
Kyle Gorman 75