

ISSN
1351-3249

NATURAL LANGUAGE ENGINEERING

Edited by

Ruslan Mitkov

John Tait

Branimir K. Boguraev

VOLUME 25 PART 3 MAY 2019

CAMBRIDGE
UNIVERSITY PRESS

Natural Language Engineering meets the needs of professionals and researchers working in all areas of automatic language processing, whether from the perspective of theoretical or corpus linguistics, translation, lexicography, computer science or engineering. Its aim is to bridge the gap between traditional computational linguistics research and the implementation of practical applications with potential real-world use. As well as publishing original research articles on a broad range of topics - from text analysis, machine translation, information retrieval, speech processing and generation to integrated systems and multi-modal interfaces - it also publishes special issues on specific natural language processing methods, tasks or applications. The journal welcomes survey papers describing the state of the art of a specific topic. The Journal of Natural Language Engineering also publishes the popular Industry Watch and Emerging Trends columns as well as book reviews.

EDITORS

Ruslan Mitkov (Executive Editor), University of Wolverhampton, UK. Email: R.Mitkov@wlv.ac.uk

John I. Tait, johntait.net Ltd., UK. Email: john@johntait.net

Branimir K. Boguraev, IBM Thomas J. Watson Research Center, USA. Email: bran@us.ibm.com

ASSOCIATE EDITOR

Diana Inkpen, University of Ottawa, Canada. Email: Diana.Inkpen@uottawa.ca

BOOK EDITOR

Diana Maynard, University of Sheffield, UK. Email: d.maynard@sheffield.ac.uk

INDUSTRY WATCH EDITOR

Robert Dale, Language Technology Group, Australia. Email: rdale@language-technology.com

EMERGING TRENDS EDITOR

Kenneth Church, Baidu, CA, USA. Email: kennethchurch@baidu.com

FOUNDING EDITOR

Roberto Garigliano, SenseGraph Ltd., UK.

EDITORIAL BOARD

Kevin Bretonnel Cohen, University of Colorado, USA

Ondřej Bojar, Charles University, Czech Republic

Gregory Grefenstette, Florida Institute for Human & Machine Cognition (IHMC), USA

Tracy Holloway King, A9 Amazon, USA

Jing Jiang, Singapore Management University

Sandra Kuebler, University of Indiana, USA

Lori Lamel, LIMSI, France

Suresh Manandhar, University of York, UK

Alessandro Moschitti, Amazon, USA

Preslav Nakov, Qatar Computing Research Institute, HBKU, Qatar

Vivi Nastase, University of Heidelberg, Germany

Roberto Navigli, Sapienza University of Rome, Italy

Kemal Oflazer, Carnegie Mellon University, Qatar

Constantin Orasan, University of Wolverhampton, UK

Sebastian Padó, University of Stuttgart, Germany

Simone Paolo Ponzetto, University of Mannheim, Germany

Nasredine Semmar, CEA LIST, France

Khalil Sima'an, University of Amsterdam, The Netherlands

Richard Sproat, Google, USA

Tomek Strzalkowski, University at Albany, USA

Maite Taboada, Simon Fraser University, Canada

Hwee Tou Ng, National University of Singapore, Singapore

Alfonso Ureña López, University of Jaen, Spain

Aline Villavicencio, Federal University of Rio Grande do Sul, Brazil and University of Essex, UK

Xiaojun Wan, Peking University, China

Bonnie Webber, University of Edinburgh, UK

Min Zhang, Soochow University, China

EDITORIAL ASSISTANTS

Sandra Elfiky, University of Wolverhampton, UK

Anna Feherova, University of Wolverhampton, UK

April Harper, University of Wolverhampton, UK

Sara Moze, University of Wolverhampton, UK

Omid Rohanian, University of Wolverhampton, UK

Shiva Taslimipoor, University of Wolverhampton, UK
