NAACL-HLT 2012

Proceedings of the Joint Workshop on Automatic Knowledge Base Construction and Web-scale Knowledge Extraction (AKBC-WEKEX 2012)

June 7-8, 2012
Montréal, Canada

Production and Manufacturing by
Omnipress, Inc.
2600 Anderson Street
Madison, WI 53707
USA

Order copies of this and other ACL proceedings from:

Association for Computational Linguistics (ACL)
209 N. Eighth Street
Stroudsburg, PA 18360
USA
Tel: +1-570-476-8006
Fax: +1-570-476-0860
acl@aclweb.org

ISBN13: 978-1-937284-20-6, ISBN10: 1-937284-20-4

Introduction

Recently, there has been a significant amount of interest in automatically creating large-scale knowledge bases (KBs) from unstructured text. The Web-scale knowledge extraction task presents a unique set of opportunities and challenges. The resulting knowledge bases can have the advantage of scale and coverage. They have been enriched by linking to the Semantic Web, in particular the growing linked open dataset (LOD). These semantic knowledge bases have been used for a wide variety of Natural Language Processing, Knowledge Representation, and Reasoning applications such as semantic search, question answering, entity resolution, ontology mapping etc. The automatic construction of these KBs has been enabled by research in areas including natural language processing, information extraction, information integration, databases, search and machine learning. There are substantial scientific and engineering challenges in advancing and integrating such relevant methodologies.

With this year's workshop, we would like to resume the positive experiences from two previous workshops: AKBC-2010 and WEKEX-2011. The joint AKBC-WEKEX workshop will serve as a forum for researchers working in the area of automated knowledge harvesting from text. By having invited talks by leading researchers from industry, academia, and the government, and by focusing particularly on vision papers, we aim to provide a vivid forum of discussion about the field of automated knowledge base construction. For more details on the workshop, please visit: http://akbcwekex2012.wordpress.com/

James Fan, Raphael Hoffman, Aditya Kalyanpur, Sebastian Riedel, Fabian Suchanek, Partha Talukdar

Organizers:

James Fan (IBM Research)
Raphael Hoffman (University of Washington)
Aditya Kalyanpur (IBM Research)
Sebastian Riedel (University of Massachusetts, Amherst)
Fabian Suchanek (Max-Planck Institute for Informatics)
Partha Pratim Talukdar (Carnegie Mellon University)

Steering Committee:

Oren Etzioni (University of Washington)
Andrew McCallum (University of Massachusetts, Amherst)
Fernando Pereira (Google Research)
Gerhard Weikum (Max-Planck Institute for Informatics)

Invited Speaker:

Nilesh Dalvi (Yahoo Research)
Bonnie Dorr (DARPA)
Oren Etzioni (University of Washington)
James Fan / Aditya Kalyanpur (IBM Research)
Ed Hovy (University of Southern California/ISI)
Andrew McCallum (University of Massachusetts, Amherst)
Fernando Pereira (Google Research)
Tom Mitchell (Carnegie Mellon University)
Patrick Pantel (Microsoft Research)
Chris Re (University of Wisconsin, Madison)
Steffen Staab (University of Koblenz)

Program Committee:

Soren Auer (University of Leipzig)
Ken Barker (IBM Research)
Peter Clark (Vulcan Inc.)
Amol Deshpande (University of Maryland)
Anhai Doan (University of Wisconsin, Madison)
Oren Etzioni (University of Washington)
Tony Fader (University of Washington)
Alfio Gliozzo (IBM Research)
Alon Halevy (Google Research)
Ed Hovy (University of Southern California/ISI)
Zack Ives (University of Pennsylvania)
Vladimir Kolovski (Novartis)
Xiao Ling (University of Washington)

Andrew McCallum (University of Massachusetts, Amherst)
Goran Nenadic (University of Manchester)
Patrick Pantel (Microsoft Research)
Marius Pasca (Google Research)
Chris Re (University of Wisconsin, Madison)
Alan Ritter (University of Washington)
Sunita Sarawagi (IIT Bombay)
Sameer Singh (University of Massachusetts, Amherst)
Martin Theobald (Max-Planck Institute for Informatics)
Gerhard Weikum (Max-Planck Institute for Informatics)
Limin Yao (University of Massachusetts, Amherst)

Table of Contents

Workshop Program

Thursday, June 7, 2012

8:30–9:00 Opening Remarks

9:00–9:45 Invited Talk: Oren Etzioni

9:45–10:30 Invited Talk: Patrick Pantel

10:30–11:00 Break

11:00–11:45 Invited Talk: Andrew McCallum

11:45–12:30 Invited Talk: James Fan / Aditya Kalyanpur

12:30–14:00 Lunch

14:00–14:45 Poster Quick Presentations

14:45–15:30 Top 3 Talks

15:30–16:00 Break

16:00–18:00 Poster Session

Friday, June 8, 2012

9:00–9:45 Invited Talk: Fernando Pereira

9:45–10:30 Invited Talk: Tom Mitchell

10:30–11:00 Break

11:00–11:45 Invited Talk: Chris Re

11:45–12:30 Invited Talk: Steffen Staab

Friday, June 8, 2012 (continued)

12:30–14:00 Lunch

14:00–14:45 Invited Talk: Ed Hovy

14:45–15:30 Invited Talk: Nilesh Davi

15:30–16:00 Break

16:00–16:30 Invited Talk: Bonnie Dorr

16:30–18:00 Unconference