Preface

LWA 2015 is a joint conference of four special interest groups of the German Computer Science Society (GI), addressing research in the areas of knowledge discovery and machine learning, information retrieval, database systems, and knowledge management. The German acronym LWA stands for "Lernen, Wissen, Adaption" (Learning, Knowledge, Adaptation). Following the tradition of the last years, LWA 2015 provides a joint forum for experienced and young researchers, to bring insights to recent trends, technologies and applications and to promote interaction among the special interest groups. The following special interest groups participate at LWA 2015:

- KDML (Knowledge Discovery, Data Mining and Machine Learning)
- FGWM (Knowledge Management)
- IR (Information Retrieval)
- FGDB (Database Systems)

The papers have been selected by independent program committees from the respective domains.

The program consists of several joint sessions which include contributions of interest for all conference participants. In addition, there are parallel sessions for individual workshops focussing on more specific topics. A poster session gives all presenters the opportunity to discuss their work in a broader context. Recent trends in the corresponding research areas are highlighted by four distinguished keynote speakers:

- Steffen Staab, University of Koblenz-Landau
- Thomas Seidl, RWTH Aachen
- Norbert Ritter, University of Hamburg
- Andreas Henrich, University of Bamberg

The accompanying social programme includes a guided city tour in the city centre of Trier followed by a conference dinner in the "Bitburger Wirtshaus".

The organizers would like to thank the workshop chairs and their programme committees for their excellent work as well as the keynote speakers for their contribution to the success of LWA 2015. Finally, we gratefully acknowledge the generous support of our sponsors, in particular EMPOLIS, IBM, and SER.

We hope that LWA 2015 will be an inspiring event for all participants with lots of scientific exchange and discussions.

September 2015

Ralph Bergmann
Sebastian Görg
Gilbert Müller
(Editors, LWA'15)

Organization

LWA 2015 is hosted and organized by the research group "Business Information Systems II" at the University of Trier.

LWA 2015 General Organization

Ralph Bergmann, University of Trier (General Chair)
Maria Gindorf, University of Trier (Conference Secretary)
Gilbert Müller, University of Trier
Sebastian Görg, University of Trier

KDML 2015 Workshop Organization

Robert Jäschke, Leibniz Universität Hannover
Emmanuel Müller, Hasso Plattner Institut

FGWM 2015 Workshop Organization

Michael Leyer, University of Rostock
Christian Sauer, University of West London

IR 2015 Workshop Organization

Claus-Peter Klas, GESIS – Leibniz Institute for the Social Sciences
Ingo Frommholz, University of Bedfordshire

FGDB 2015 Workshop Organization

Thomas Ruf, Universität Erlangen-Nürnberg
Alfons Kemper, TU München

KDML 2015 Programme Committee

Martin Atzmueller	University of Kassel
Christian Bauckhage	Fraunhofer IAIS
Martin Becker	University of Würzburg
Daniel Bengs	German Institute for International Educational Research
Alexander Dallmann	University of Würzburg
Ernesto Diaz-Aviles	IBM Research
Stephan Doerfel	University of Kassel
Wouter Duivesteijn	TU Dortmund
Stephan Günnemann	Carnegie Mellon University
Matthias Hagen	Bauhaus University Weimar

Marwan Hassani	RWTH Aachen University
Alexander Hinneburg	Martin-Luther-University Halle-Wittenberg
Andreas Hotho	University of Würzburg
Frederik Janssen	TU Darmstadt
Robert Jäschke	Leibniz Universität Hannover
Kristian Kersting	TU Dortmund University
Marius Kloft	TU Berlin
Ralf Krestel	Hasso Plattner Institute
Florian Lemmerich	University of Würzburg
Ulf Leser	Humboldt-Universität zu Berlin
Eneldo Loza Mencía	TU Darmstadt
Hannes Mühleisen	Centrum Wiskunde & Informatica (CWI)
Emmanuel Müller	Hasso Plattner Institut
Thomas Niebler	University of Würzburg
Nico Piatkowski	TU Dortmund University
Achim Rettinger	Karlsruhe Institute of Technology
Elena Sapozhnikova	University of Konstanz
Ansgar Scherp	Leibniz Information Center for Economics (ZBW)
Ute Schmid	University of Bamberg
Erich Schubert	Ludwig-Maximilians-Universität München
Robin Senge	University of Marburg
Arthur Zimek	Ludwig-Maximilians-Universität München

FGWM 2015 Programme Committee

Klaus-Dieter Althoff	DFKI / University of Hildesheim
Kerstin Bach	Norwegian University of Science and Technology
Joachim Baumeister	denkbares GmbH
Axel Benjamins	Universität Osnabrück
Mareike Dornhöfer	Universität Siegen
Susanne Durst	University of Skövde
Michael Fellmann	University of Rostock
Dimitris Karagiannis	University of Vienna
Andrea Kohlhase	University of Applied Sciences Neu-Ulm
Michael Leyer	University of Rostock
Ronald Maier	University of Innsbruck
Alke Martens	University of Rostock
Mirjam Minor	Goethe University Frankfurt
Miltos Petridis	Brighton University
Ulrich Reimer	University of Applied Sciences St. Gallen
Jochen Reutelshöfer	denkbares GmbH
Bodo Rieger	Universität Osnabrück
Peter Rossbach	Frankfurt School of Finance & Management
Thomas Roth-Berghofer	University of West London
Kurt Sandkuhl	University of Rostock

Christian Sauer   University of West London
Sahar Vahdati   University of Bonn

IR 2015 Programme Committee

Reginald Ferber   Hochschule Darmstadt
Ingo Frommholz   University of Bedfordshire
Joachim Griesbaum   University of Hildesheim
Andreas Henrich   University of Bamberg
Daniel Hienert   GESIS – Leibniz Institute for the Social Sciences
Frank Hopfgartner   University of Glasgow
Claus-Peter Klas   GESIS – Leibniz Institute for the Social Sciences
Udo Kruschwitz   University of Essex
Johannes Leveling   Elsevier
Thomas Mandl   University of Hildesheim
Philipp Mayr   GESIS – Leibniz Institute for the Social Sciences
Peter Mutschke   GESIS – Leibniz Institute for the Social Sciences
Henning Müller   HES-SO
Ralf Schenkel   University of Passau
Christian Wolff   University of Regensburg
David Zellhoefer   Berlin State Library

FGDB 2015 Programme Committee

Tilo Balke   TU Braunschweig
Silke Eckstein   TU Braunschweig
Vera Kamp   PLATH GmbH
Alfons Kemper   TU München
Richard Lenz   University of Erlangen
Daniela Nicklas   University of Bamberg
Thomas Ruf   Universität Erlangen-Nürnberg
Knut Stolze   IBM Germany