## **Table of Contents**

Organization and Sponsors	13
ISI 2017 Programme Committee	15
Editors' Note	17
Keynotes	
Fabian Hemmert	
Information Spaces	20
Building Bridges between the Digital and the Physical World	
Melanie Feinberg	
Translating Texture Data between Information Spaces	21
Session 1: Information Behavior	
Kathrin Rust, Christian Schlögl and Dongback Seo	
Comparing Information Literacy of Students from University of Graz (Austria) and Chungbuk National University (Republic of Korea)	24
Anastasia Christoforidis, Ben Heuwing and Thomas Mandl	
Visualising Topics in Document Collections	37
An Analysis of the Interpretation Processes of Historians	
Barbara Ströhl, Kilian Ganz, Stephanie Richter, Kilian Zieglmeier, Rainer Hammwöhner†	
An Eye-Tracking Study on Differences in Information Transfer	
by Infographics	50
Dirk Lewandowski, Sebastian Sünkler and Friederike Kerkmann	
Are Ads on Google Search Engine Results Pages Labeled	
Clearly Enough?	62
The Influence of Knowledge on Search Ads on Users' Selection Behaviour	



Keith Jeffery, Carlo Meghini, Cesare Concordia, Theodore Patkos, Valerie Brasse, Jacco van Ossenbruck, Yannis Marketakis, Nikos Minadakis and Eda Marchetti	
A Reference Architecture for Virtual Research Environments	76
Corinna Breitinger and Bela Gipp	
VirtualPatent	89
Enabling the Traceability of Ideas Shared Online Using Decentralized Trusted Timestamping	
Joeran Beel, Siddharth Dinesh, Philipp Mayr, Zeljko Carevic and Raghvendra Jain	
Stereotype and Most-Popular Recommendations in the Digital Library <i>Sowiport</i>	96
Session 3: User Perceptions of Information Systems	
Tjaša Jug and Maja Žumer	
Content, Physical Appearance, Copy Condition Tagging Customer Book Reviews	110
Valerie Claessen, Adrian Schmidt and Tamara Heck	
Virtual Assistants	116
A Study on the Usability and User Perception of Customer Service Systems for E-Commerce	
Alexander von Janta Lipinski, Henrik Weber, Ralph Koelle and Thomas Mandl	
Gamification Elements and Their Perception by Different Gamer Types	131
A Case Study for a Project Management Software	
Session 4: Information System Evaluation	
Eva-Maria Meier, Patricia Böhm and Christian Wolff	
Comparing Heuristic Walkthrough and User Studies in Evaluating Digital Appliances	146

Session 2: Designing Scholarly Information Systems

Wolfgang Semar, Elena Mastrandrea and Fabian Odoni	
Development of a Benchmark System for Social Enterprise Software	158
Benchmark System and Visualisation for Analysing Personal Knowledge	
Behaviour	
Juliane Stiller and Péter Király	
Multilinguality of Metadata	164
Measuring the Multilingual Degree of Europeana's Metadata	
Anne Chardonnens and Simon Hengchen	
Text Mining for User Query Analysis	177
A 5-Step Method for Cultural Heritage Institutions	
Session 5: Metrics and Altmetrics	
Edgar Schiebel, Davide Bianchi and András Vernes	
A Bibliometric Framework to Identify and Delineate Subfields	
of Research on Tribological Wear	192
Part One: Can We Identify Fundamental Issues by Clusters of Similar Journals?	
Elisabeth Vogler, Christoph Schindler, Alexander Botte and Marc Rittberger	r
Are Altmetrics Effective in Transdisciplinary Research Fields?	203
Altmetric Coverage of Outputs in Educational Research	
Session 6: (Social) Media Analysis	
Felix Hamborg, Norman Meuschke, Corinna Breitinger and Bela Gipp	
news-please	218
A Generic News Crawler and Extractor	
Felix Hamborg, Norman Meuschke, Akiko Aizawa and Bela Gipp	
Identification and Analysis of Media Bias in News Articles	224
The Impact of Objectivity and Believability on Corporate Decision Making and Performance	

Florian Meier, Johannes Aigner and David Elsweiler	
Using Sessions from Clickstream Data Analysis to Uncover	
Different Types of Twitter Behaviour	237
Panels	
Wolf Rauch, Rainer Kuhlen, Wolfgang G. Stock, Christian Wolff, Christa Womser-Hacker and Christian Schlögl	
Significance and Relevance of Information Science in German-language Countries	252
A Panel Discussion Devoted to the 65 <sup>th</sup> Birthday of Wolf Rauch	
Antje Michel	
"Information and Learning"	264
Research at the Interface between Information Science and the Learning Sciences	
Michael Seadle	
Examining Research Integrity	269
Gerhard Lustig Award Papers	
Fabian Muster	
Data Strategy Model	274
A Reference Model to Develop Data Strategies	
Roland List	
Relationship between Downloads and Citations	278
The Case of Two Economics Journals	
Alexandra Linhart	
Google Now and User Data	281
A Diary Study on Perceptions of Collection and Use of Personal Data by Google Now Cards	

Table of Contents

Helene Brinken and Helena Kock	
Exploring Intergenerational Knowledge Sharing in Organizations Potentials and Limitations of Information and Communication Technology (ICT)	285
Sandra Balck	
The X(Disciplinarity) of Information Science	290
Robert Jackermeier	
Interactive Pedestrian Indoor Localization	293
Doctoral Colloquium I	
Information Literacy and Behavior, Knowledge Management, Visualization	
Stefan Dreisiebner	
Development and Evaluation of a MOOC Extension for Teaching Subject-Specific Skills in Information Literacy for Business Administration	298
Stefanie Havelka	
Mobile Privacy and Apps: Investigating User Behavior and Attitude	303
Julian Hocker	
Visualization for Text Mining in the Digital Humanities Empowering Researchers to Use Advanced Tools for Text Mining	308
Fabian Odoni	
Development of Knowledge Management Performance Metrics for Enterprise Social Software	314
Veit Stephan	
Information Visualization of Environment Maps for Complex, Relational Data for Better Reflected Decision Making on the Example of Food	321

Doctoral Colloquium II	
Information Retrieval, Library Information Science, Social Media	
Katrin Behnert	
Relevance Clues	330
Developing an Experimental Design to Examine the Criteria Behind Relevance Judgments	
Anna Klamet	
E-Publishing in Small Nations of the European Union	336
A Comparative Approach to Policy Frameworks and SME Business Strategies	
Anthea Moravánszky	
How Can Social Software Enhance Training Measures within Software Implementations in the Financial Sector?	343
Kaltrina Nuredini	
Enriching a Library Portal (EconBiz) with Altmetrics	348
Poster Presentations	
Manuel Burghardt, Katharina Hafner, Laura Edel, Sabrin-Leila Kenaan and Christian Wolff	
An Information System for the Analysis of Color Distributions	
in MovieBarcodes	356
Nicolas Prongué and René Schneider	
Data Streams in linked.swissbib.ch	359
The Swiss Metacatalog in the Linked Open Data Cloud	
Achim Oßwald	
For You, Me, Them?	362
Choosing Designated Communities for Personal Digital Archiving	

Christoph Schindler, Julian Hocker, Lars Müller, Maria Maleshkova and Tobias Weller	
Grasping the Materializations of Practices in Digital Humanities A Semantic Research Environment for Analyzing Exam Grading Practices in German High Schools	365
Stefan Dreisiebner	
Information Literacy Online	368
An Erasmus+ Project to Improve Students' Competencies	
Vera Hillebrand and Elke Greifeneder	
International Degree Mobility in Library and Information Science	371
Peter Böhm, Christoph Schindler, Heiko Rölke and Marc Rittberger	
Limits and Potentials of Grasping User Interaction in Controlled and Open World Environments Contrasting PIAAC Large-Scale-Assessment Usage Data with	374
Web Analytics	
Thomas Mandl and Tatjana Aparac Jelušic	
Lowering the Barriers to Entry into LIS Master Programs  The EINFOSE Project	377
Nicolas Apostolopoulos, Christoph Schimmel and Ilker Egilmez	
Open Encyclopedia System	380
Open Source Software for Open Access Encyclopedias	
Fabian Odoni, Wolfgang Semar and Elena Mastrandrea	
VICI	386
Visualisation of Collaboration in Social Enterprise Software Systems	
Simone Kronenwett	
Research Data at the Faculty of Arts and Humanities of the University of Cologne	389