Communications in Computer and Information Science

1081

Commenced Publication in 2007
Founding and Former Series Editors:
Phoebe Chen, Alfredo Cuzzocrea, Xiaoyong Du, Orhun Kara, Ting Liu,
Krishna M. Sivalingam, Dominik Ślęzak, Takashi Washio, Xiaokang Yang,
and Junsong Yuan

Editorial Board Members

Simone Diniz Junqueira Barbosa

Pontifical Catholic University of Rio de Janeiro (PUC-Rio), Rio de Janeiro, Brazil

Joaquim Filipe

Polytechnic Institute of Setúbal, Setúbal, Portugal

Ashish Ghosh

Indian Statistical Institute, Kolkata, India

Igor Kotenko

St. Petersburg Institute for Informatics and Automation of the Russian Academy of Sciences, St. Petersburg, Russia

Lizhu Zhou

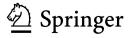
Tsinghua University, Beijing, China

More information about this series at http://www.springer.com/series/7899

Rodrigo Pereira dos Santos · Cristiano Maciel · José Viterbo (Eds.)

Software Ecosystems, Sustainability and Human Values in the Social Web

8th Workshop of Human-Computer Interaction Aspects to the Social Web, WAIHCWS 2017
Joinville, Brazil, October 23, 2017
and 9th Workshop, WAIHCWS 2018
Belém, Brazil, October 22, 2018
Revised Selected Papers



Editors
Rodrigo Pereira dos Santos
Federal University of the State
of Rio de Janeiro
Rio de Janeiro, Brazil

José Viterbo (b)
Fluminense Federal University
Niterói, Brazil

Cristiano Maciel Federal University of Mato Grosso Cuiabá. Brazil

ISSN 1865-0929 ISSN 1865-0937 (electronic) Communications in Computer and Information Science ISBN 978-3-030-46129-4 ISBN 978-3-030-46130-0 (eBook) https://doi.org/10.1007/978-3-030-46130-0

© Springer Nature Switzerland AG 2020

This work is subject to copyright. All rights are reserved by the Publisher, whether the whole or part of the material is concerned, specifically the rights of translation, reprinting, reuse of illustrations, recitation, broadcasting, reproduction on microfilms or in any other physical way, and transmission or information storage and retrieval, electronic adaptation, computer software, or by similar or dissimilar methodology now known or hereafter developed.

The use of general descriptive names, registered names, trademarks, service marks, etc. in this publication does not imply, even in the absence of a specific statement, that such names are exempt from the relevant protective laws and regulations and therefore free for general use.

The publisher, the authors and the editors are safe to assume that the advice and information in this book are believed to be true and accurate at the date of publication. Neither the publisher nor the authors or the editors give a warranty, expressed or implied, with respect to the material contained herein or for any errors or omissions that may have been made. The publisher remains neutral with regard to jurisdictional claims in published maps and institutional affiliations.

This Springer imprint is published by the registered company Springer Nature Switzerland AG The registered company address is: Gewerbestrasse 11, 6330 Cham, Switzerland

Preface

This volume contains the extended versions of the selected papers published from two previous editions of the Workshop of Human-Computer Interaction Aspects to the Social Web (WAIHCWS 2017-2018). The event was co-located with the Brazilian Symposium on Human Factors in Computing Systems (IHC), promoted by the Brazilian Computer Society (SBC).

With this book, entitled *Software Ecosystems, Sustainability and Human Values in the Social Web*, WAIHCWS celebrates 10 editions of a successful forum for researchers and practitioners who are interested in opportunities and challenges related to the social web in the context of the human-computer interaction.

The social web, people, and organizations are all interconnected concepts. As such, social web is a key element in allowing different people through diverse applications develop over many platforms and embed them in distinct devices. In the last decade, the Web has faced frequent changes and adapted itself to new ways of interaction promoted by different devices. This is a consequence of emerging technologies that are more accessible and present in the people's mind, transforming the way they relate to each other.

The topics included in this volume cover the following fields connected to the social web: user experience, emotion analysis, interoperability, systems-of-information systems, knowledge-intensive processes, ontology, transportation domain, mobile systems, privacy policies, digital legacy, social networks, recommendation models, scientific events, accessible web, software ecosystems, and sustainability. All the accepted chapters were peer reviewed by three qualified reviewers chosen from our Scientific Committee based on their qualifications and experience.

The editors wish to thank the dedicated Scientific Committee members and the external reviewers for their contributions to this rich material. We also thank Springer for their trust and for publishing the extended proceedings of WAIHCWS 2017–2018.

March 2020

Rodrigo Pereira dos Santos Cristiano Maciel José Viterbo

Organization

Scientific Committee

Alfredo Sánchez

Anna Beatriz Marques

Artur Kronbauer

Awdren Fontão

LANIA, Mexico

UFC, Brazil

UNIFACS, Brazil

UFMS, Brazil

Candi Cann Baylor University, USA

Cesar A. Collazos Universidad del Cauca, Colombia

Daniel Lucrédio
Davi Viana
Elisa Yumi Nakagawa
George Valença
Igor Scaliante Wiese
Isabela Gasparini
José Maria David
UFSCar, Brazil
UFMA, Brazil
USP, Brazil
UFRPE, Brazil
UTFPR, Brazil
UDESC, Brazil
UFJF, Brazil

Joshua Enslen United States Military Academy at West Point, USA

Kamila Rodrigues USP, Brazil Luciana Zaina UFSCar, Brazil Marília S. Mendes UFC, Brazil

Noor Hasrina Bakar Universiti Kebangsaan Malaysia, Malaysia

Patrícia C. de Souza UFMT, Brazil

Rafael Capilla Universidad Rey Juan Carlos, Spain

Regina Braga UFJF, Brazil

Tihomir Orehovački Juraj Dobrila University of Pula, Croatia

Valdemar Graciano Neto UFG, Brazil Vinícius Carvalho Pereira UFMT, Brazil

External Reviewer

Isabel Villanes UFAM, Brazil

Organizing Committee

Rodrigo Pereira dos Santos UNIRIO, Brazil Cristiano Maciel UFMT, Brazil José Viterbo UFF, Brazil

Contents

Towards a Conceptual Model to Understand Software Ecosystems Emerging from Systems-of-Information Systems	1
KIPO Opportunities for Interoperability Decisions in Systems-of- Information Systems in the Domain of Environmental Management Juliana Fernandes, Fernanda Baião, and Rodrigo Pereira dos Santos	21
Exploring Sustainability in Real Cases of Emerging Small-to-Medium Enterprises Ecosystems	42
Analysis of Terms of Use and Privacy Policies in Social Networks to Treat Users' Death	60
An Analysis of UX Based on Users' Emotional Intention and Values, Both Expressed Through Twitter Posts	79
What to See in a Scientific Event? A Social Recommendation Model of Technical Sessions	99
MobiBus: A Mobile Application to Keep Track of Buses in Small Cities Artur Kronbauer, Jorge Campos, Gleison da Silva, Raimundo Lima, and Isaac Moreira	120
Challenges for the Implementation of Accessible Web and Mobile Systems	138
Author Index	159