



CENTRIC 2012

The Fifth International Conference on Advances in Human-oriented and
Personalized Mechanisms, Technologies, and Services

November 18-23, 2012

Lisbon, Portugal

CENTRIC 2012 Editors

Lasse Berntzen, Vestfold University College - Tønsberg, Norway

Stephan Böhm, RheinMain University of Applied Sciences - Wiesbaden, Germany

Guadalupe Ortiz, University of Cádiz, Spain

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2012) by International Academy, Research, and Industry Association (IARIA)
Please refer to the Copyright Information page.

Printed by Curran Associates, Inc. (2013)

International Academy, Research, and Industry Association (IARIA)
412 Derby Way
Wilmington, DE 19810

Phone: (408) 893-6407
Fax: (408) 527-6351

petre@iaria.org

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2634
Email: curran@proceedings.com
Web: www.proceedings.com

TABLE OF CONTENTS

CENTRIC 1: CENTRIC VIEWS

Assessing the Effect of Domotics Used As an Assistant to Meal Preparation with People with an Intellectual Disability	1
<i>Dany Lussier-Desrochers, Hélène Pigot, Jérémy Bauchet, Yves Lachapelle, Sylvain Giroux, Nancy Leclerc</i>	
User-Centric IT Security - How to Design Usable Security Mechanisms	7
<i>Hans-Joachim Hof</i>	
Quantifying the Quality of Business Models - A State of the Practice	13
<i>Christina Di Valentin, Tobias Weiblen, Anton Pussep, Dirk Werth, Peter Loos</i>	
Building Trusted National Identity Management Systems: Presenting the Privacy Concern-Trust (PCT) Model	19
<i>Joseph Kwame Adjei, Henning Olesen</i>	
User Modeling and Attention Support: Towards a Framework of Personalization Techniques	27
<i>Liana Razmerita, Thierry Nabeth, Kathrin Kirchner</i>	

CENTRIC 2: USER-CENTRIC NETWORKING AND SERVICES I

A Traffic Adaptive Backoff Approach for Wireless Networks	34
<i>Youngho Lee, Jeongbae Yun, Seonhwan Hwang, Gihyuk Seong, Kyuchang Lee, Byeongung Kim, Kijun Han</i>	
On-site Knowledge Transfer in Agriculture: TalkingPot	38
<i>Yosei Isoe, Tomoko Izumi, Yoshio Nakatani</i>	
A Route Recommendation System in Disaster-Struck Areas with Consideration for Preferences of Affected Drivers	44
<i>Kazuki Ono, Tomoko Izumi, Yoshio Nakatani</i>	
A Sightseeing Navigation System Without Route Information	50
<i>Shuichi Takagi, Tomoko Izumi, Yoshio Nakatani</i>	
A Simulation System for Tsunami Evacuation Behavior in the JR Osaka Station Area	56
<i>Ryo Ishida, Tomoko Izumi, Yoshio Nakatani</i>	

CENTRIC 3: USER-CENTRIC NETWORKING AND SERVICES II

Communication Support System Between Persons with Dementia and Family Caregivers using Memories	62
<i>Kazuhiro Yamasaki, Izumi Tomoko, Yoshio Nakatani</i>	
What is There For Supper? Remote Access to the Stock of Food in a Smart Kitchen	68
<i>Anne Wegerich, Matthias Rötting</i>	
Standardizing the Evaluation of QoE by Users - A Methodology to Estimate the Acceptance of Interactive Services	73
<i>Graziella Bonadia, Cláudia De A. Tambascia, Ewerton M. De Menezes</i>	
Application of QoE Evaluation Methodology - A Study of the User's Acceptance Threshold Regarding Image Quality	80
<i>Graziella Bonadia, Maria S. Medrano, Nyvea M. Da Silva</i>	
An Approach to Developing an Agent Space to Support Users' Activities	84
<i>Kenji Sugawara, Jean-Paul A. Barthès</i>	

CENTRIC 4: USER-CENTRIC SUPPORTING MECHANISMS

Architecture of an Interactive Classification System	91
<i>Ilze Birzniece</i>	
Dynamic Ontology Supported User Interface for Personalized Decision Support	101
<i>Harald Bosch, Dennis Thom, Geoffrey-Alexeij Heinze, Stefan Wokusch, Thomas Ertl</i>	
An Active Program-based Design for User-Centric System by Symbiotic Computing	108
<i>Shigeru Fujita, Kenji Sugawara</i>	

A New Mediator-based Architecture for the Dynamic Service Composition	112
<i>Tuo Zhang, Ken Chen, Jiwen Yan, Antoine Bouhier</i>	

CENTRIC 5: USER-CENTRIC ADVANCED APPLICATIONS

The Experimentation of implementing Chase View in Landing Phase	119
<i>Yiyuan Zheng, Shan Fu</i>	
A Context-aware Model for the Analysis of User Interaction and QoE in Mobile Environments.....	124
<i>Pedro Mateo, Diego Sevilla Ruiz, Gregorio Martínez Pérez</i>	
Personalized Mobile Services Using Weighted Instance Based Learner for User Profiling.....	128
<i>Ayse Cufoglu, Mahi Lohi, Colin Everiss</i>	
Interference Force Reduction for Power Assist Systems Controlled at Arbitrary Operational Point	133
<i>Fumiya Shibukawa, Takayuki Tanaka, Shun'Ichi Kaneko</i>	
Author Index	