



## **COLLA 2012**

The Second International Conference on Advanced Collaborative Networks,  
Systems and Applications

June 24-29, 2012

Venice, Italy

### **COLLA 2012 Editors**

Lasse Berntzen, Vestfold University College - Tønsberg, Norway

Katya Toneva, MirandaNet Academy, UK

Abdulrahman Yarali, Murray State University, USA

**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. (2012)

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

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

[petre@iaria.org](mailto: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](mailto:curran@proceedings.com)  
Web: [www.proceedings.com](http://www.proceedings.com)

# TABLE OF CONTENTS

## COLLA 1: COLLABORATIVE APPLICATIONS I

<b>Wireless Communication for Smart Grids</b> .....	1
<i>Abdulrahman Yarali, Saifur Rahman</i>	
<b>Timeaxis Design of an Email System for Sustaining and Deepening "KIZUNA "</b> .....	10
<i>Kei Matsuoka, Shuntaro Matsui, Koichiro Sato, Yoshiyuki Matsuoka, Tetsuro Ogi</i>	
<b>Instructional Design of the Communicative Blended Learning for Chinese as a Foreign Language</b> .....	18
<i>Satoko Sugie</i>	
<b>Collaborative Approach to WordNet and Wikipedia Integration</b> .....	23
<i>Julian Szymanski, Rafal Korytkowski, Henryk Krawczyk</i>	
<b>Oh, no! Not Another Web-based Desktop!</b> .....	29
<i>Anna Goy, Giovanna Petrone, Marino Segnan</i>	

## COLLA 2: COLLABORATIVE APPLICATIONS II

<b>Modelling a Fault-Tolerant Distributed Satellite System</b> .....	35
<i>Kashif Javed, Elena Troubitsyna</i>	
<b>Collaborative Document Classification: Definition, Application and Validation</b> .....	42
<i>Juan M. Fernández-Luna, Juan F. Huete, Guillermo Osorio</i>	
<b>Consideration of the Function to Find Friends in Social Game</b> .....	50
<i>Kohei Otake, Tomofumi Uetake</i>	
<b>Context-Aware Content-Centric Collaborative Workflow Management for Mobile Devices</b> .....	54
<i>Anna Kocurova, Samia Oussena, Peter Komisarczuk, Tony Clark</i>	

## COLLA 3: TOOLS AND BENCHMARKING

<b>The Integration of Home Collected Data into the Veterans Administration Health System</b> .....	58
<i>George Blankenship, Daniel Maloney</i>	
<b>wEnergy: A Field Experiment on Energy Consumption and Social Feedback</b> .....	65
<i>Anders Dalén, Timm Teubner, Christof Weinhardt</i>	
<b>Reactive Binders: A Framework and Prototype for Team-Oriented Web Work</b> .....	69
<i>Sven Rizzotti, Helmar Burkhart</i>	
<b>CollabKit – A Multi-User Multicast Collaboration System based on VNC</b> .....	74
<i>Christian Beier, Peter Ibach</i>	

## COLLA 4: COLLABORATIVE USERS

<b>Using “Liminal Spaces” for Web-Based Collaboration and Enhancing Learning</b> .....	81
<i>Katya Toneva, John Cuthell</i>	
<b>Collaborative Preference Elicitation Based on Dynamic Peer Recommendations</b> .....	88
<i>Sourav Saha, Ambuj Mahanti</i>	
<b>Measuring the Efficiency of Digital Communities: A Case Study</b> .....	95
<i>Farid Shirazi</i>	
<b>Author Index</b>	