Proceedings

Seventh International Workshop on Groupware
# Table of Contents

Seventh International Workshop on Groupware

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foreword</td>
<td>vii</td>
</tr>
<tr>
<td>Preface</td>
<td>viii</td>
</tr>
<tr>
<td>Conference Organization</td>
<td>ix</td>
</tr>
<tr>
<td>Reviewers</td>
<td>x</td>
</tr>
</tbody>
</table>

## Opening Keynote

The Role of Ubiquitous Computing and the Disappearing Computer for CSCW .......................... 2  
*N. Streitz*

## Session 1: Workspaces

Modeling Groupware Supporting Synchronous Collaboration with Heterogeneous  
Single- and Multi-User Devices........................................ 6  
*P. Tandler*

Yaka: Document Notification and Delivery Across Heterogeneous Document Repositories  ........ 16  
*D. Arregui, F. Pacull, and J. Willamowski*

Stick-Ons Revisited ......................................................... 26  
*E. Pineda and J. Pino*

## Session 2: Workflow

Integrating Workflow and Groupware Functionalities for Co-operating Small and Medium  
Sized Enterprises: A Case Study ........................................ 38  
*G. Nagypal, F. Fischer, U. Straub, P. Weiß, and R. Nikolai*

Applying Topic Maps to Ad Hoc Workflows for Semantic Associative Navigation  
in Process Networks ....................................................... 44  
*C. Huth, S. Smolnik, and L. Nastansky*

Automated Support for Software Process Reuse: Requirements and Early Experiences  
with the APSEE Model .................................................... 50  
*R. Reis, C. Reis, and D. Nunes*

## Session 3: Tailorability

The Cooperative Hypermedia Approach to Collaborative Engineering and Operation  
of Virtual Enterprises .................................................. 58  
*W. Wang, J. Haake, and J. Rubart*

Evolution in Use of Groupware: Facilitating Tailoring to the Extreme ............................... 68  
*R. Slagter, M. Biemans, and H. ter Hofte*

Applying Genre Analysis to EMS Design: The Example of a Small Accounting Firm ............. 74  
*P. Antunes, C. Costa, and J. Dias*
Session 4: Social Aspects
Towards Social Regulation in Computer-Supported Collaborative Work ................................................................. 84
C. Mezura-Godoy and S. Talbot
Enabling the Collaborative Construction and Reuse of Knowledge through a
Virtual Reference Environment ................................................................................................................................. 90
J. Sanchez, A. García, C. Proal, and L. Fernández
The Virtual Tea Room – Experiences with a New Type of Social Space ................................................................. 98
R. Gedge and D. Abramson

Session 5: Awareness
State Treemap: An Awareness Widget for Multi-Synchronous Groupware ...................................................................... 106
P. Molli, H. Skaf-Molli, and C. Bouthier
Selectivity of Awareness Components in Asynchronous CSCW Environments ......................................................... 115
J. David and M. Borges
Document Presence Notification Services for Collaborative Writing ........................................................................ 125
A. Mordán, J. Favela, A. Martínez, and D. Decouchant

Session 6: CSCL
Use of Categorization and Structuring of Messages in Order to Organize the Discussion
and Reduce Information Overload in Asynchronous Textual Communication Tools .................................................. 136
M. Gerosa, H. Fuks, and C. de Lucena
Integration of Domain-Specific Elements into Visual Language Based Collaborative Environments ..................... 142
N. Pinkwart, U. Hoppe, and K. Gaßner
Monitoring Learners Activities in a Collaborative Environment ............................................................................. 148
A. Delgado, C. Olguín, and I. Ricarte

Session 7: Frameworks and Toolkits
A Multi-Version Algorithm for Cooperative Edition of Hierarchically-Structured Documents .................................... 154
J. Ribó and X. Franch
Considerations on the Application of Object-Oriented Reuse Technology to the
Computer-Supported Cooperative Learning Domain .................................................................................................. 164
K. Becker and A. Blois
Coordination of Collaborative Activities: A Framework for the Definition
of Tasks Interdependencies ........................................................................................................................................ 170
A. Raposo, L. Magalhães, I. Ricarte, and H. Fuks

Author Index .................................................................................................................................................................. 181