Contents

Index of Authors ................................................................................................................................ XII
Research Program Committee ............................................................................................................ XIII

Keynote

J.A. Delgado and R. Davidson
Knowledge Bases and User Profiling in Travel and Hospitality
Recommender Systems ..................................................................................................................... 1

1 Virtual Communities I

T.H. Jung, P. Louvieris and H. Oppewal
Channel Management Strategy in the eCommerce Environment:
A Portfolio Management Approach ............................................................................................ 17
R. Robles Sy and W. Schertler
Revenue Strategies for Internet Marketplace Providers in Tourism:
Theory and Empirical Study ......................................................................................................... 27
U. Gretzel and D.R. Fesenmaier
Implementing Knowledge-Based Interfirm Networks in Heterogeneous

2 System Architecture Issues

D. Carson and P. Sharma
A Model of Australian Tourism Information: Implications for Information
Systems ........................................................................................................................................... 49
M. Blöchl and W. Wöß
Flexible Data Interchange Based on XML and XSLT for Small and
Medium-Sized Tourism Enterprises [work in progress] ...................................................... 59
J.L. Caro, A. Carrillo, A. Aguayo, S. Gálvez and A. Guevara
CRM Techniques for Analyzing Client Profiles in Tourism Promotion Web
Sites [work in progress] ................................................................................................................ 68

3 Destination Management Systems

A.J. Frew, P.J. McCarthy and P. Horan
Analysis of the Volume, Value and Conversion Performance of a National
Destination Marketing System Website ......................................................................................... 77
A. La Micela, P. Roberti and G. Jacucci
From Individual Tourism Organizations to a Single Virtual Tourism
Organization for Destination Management .............................................................................. 87
R.D. Lewis
Modelling Tourism Impacts Using IT Based Destination Management
Systems [work in progress] .......................................................................................................... 97
4 Virtual Communities II

R.Y.C. Wang and D.R. Fesenmaier
Measuring the Needs of Virtual Community Members: An Empirical Study of an Online Travel Community .......................................................... 105

J.-C. Dierich, R. Robles Sy and W. Schertler
The Use of Internet-Marketing by National Tourism Organizations in Germany: An Empirical Approach ......................................................... 115

P. Alford
Modelling a Virtual Organisation in the Travel Industry [work in progress] 126

5 IT Use by Small and Medium Tourism Enterprises

P. Sharma and D. Carson
Promoting SMTE Migration to the Online Economy: Case Studies from Australia [work in progress] ................................................................. 136

M. Peters, K. Weiernair and J. Wirthalm
Small and Medium Sized Enterprises Alliance through Research in Tourism (SMART-UP) [work in progress] .............................................. 145

D. Calzà, G. Zanoni, M. Battisti, G. Dorigati, V. D’Andrea, G. Jacucci and U. Martini
Dualism of the Tourist Business and Information System for SMTEs: A New Approach [work in progress] ............................................................. 157

6 Consumer Behavior & Supplier Response Issues

I. Tjøstheim
The Internet in Competition with the Traditional Information Sources: A Study of Vacation Planning for Package vs. Non-package Travel .......... 166

H. Pechlaner, H. Rienzner, K. Matzler and L. Osti
Response Attitudes and Behavior of Hotel Industry to Electronic Info Requests .................................................................................................. 177

E. Christou and P. Kassianidis
Examining the Adoption of E-Shopping for Travel Services: Determinants of Consumers’ Perceptions ......................................................... 187

7 Economic Issues

J.E. Mills, J.A. Ismail, W.B. Werner and K. Hackshaw
Cyber Crimes and the Travel and Tourism Consumer .................................. 197

T. Heart and N. Pliskin
Can Application Service Providers Enable Cost-Effective Information Technology for Travel and Tourism? .................................................... 207

S. Klein
Web Impact on the Distribution Structure for Flight Tickets ..................... 219
<table>
<thead>
<tr>
<th>Page</th>
<th>Section</th>
<th>Title</th>
<th>Authors</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>8</td>
<td>IT &amp; Tourism Education and Virtual Learning</td>
<td>M. Sigala and E. Christou, J. Powell-Perry and P. Louvieris, P. Baruchelli, D. Calzà, C. Cattani, G. Dorigati, H. Stead and G. Jacucci</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Use of Internet for Enhancing Tourism and Hospitality Education: Lessons from Europe</td>
<td></td>
<td>229</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Using a Virtual Learning Environment (VLE) to Support Large Groups in an Undergraduate Tourism Programme [work in progress]</td>
<td></td>
<td>239</td>
</tr>
<tr>
<td></td>
<td></td>
<td>A Model of E-Learning for Encouraging Innovation in Small and Micro Tourism Enterprises within Europe [work in progress]</td>
<td></td>
<td>246</td>
</tr>
<tr>
<td>9</td>
<td>9</td>
<td>Mobile Services I</td>
<td>O. Eriksson, B. Oertel, K. Steinmüller and M. Kuom, B. Schmidt-Belz, M. Makelainen, A. Nick and S. Poslad</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Location Based Destination Information for the Mobile Tourist</td>
<td></td>
<td>255</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Mobile Multimedia Services for Tourism [work in progress]</td>
<td></td>
<td>265</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Intelligent Brokering Services for Mobile Users [work in progress]</td>
<td></td>
<td>275</td>
</tr>
<tr>
<td>10</td>
<td>10</td>
<td>Web Sites in the Hospitality Industry</td>
<td>P. O’Connor, S. Frey, R. Schegg and T. Steiner, R. Law, K. Leung and N. Au</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>An Analysis of the Online Pricing Strategies of the International Hotel Chains</td>
<td></td>
<td>285</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Benchmarking Internet Use for the Marketing of Swiss Hotels</td>
<td></td>
<td>294</td>
</tr>
<tr>
<td>11</td>
<td>11</td>
<td>Semantics and Ontologies for Tourism Web Applications</td>
<td>A. Maedche and S. Staab, B. Pan and D.R. Fesenmaier</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Applying Semantic Web Technologies for Tourism Information Systems</td>
<td></td>
<td>311</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Semantics of Online Tourism and Travel Information Search on the Internet: A Preliminary Study [work in progress]</td>
<td></td>
<td>320</td>
</tr>
<tr>
<td>12</td>
<td>12</td>
<td>Mobile Services II</td>
<td>A. Zipf, O. Gjesdal, J.R. Sulebak and M. Borge</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>User-Adaptive Maps for Location-Based Services (LBS) for Tourism</td>
<td></td>
<td>329</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Market Research in the Boat Tourism Segment</td>
<td></td>
<td>339</td>
</tr>
</tbody>
</table>
## 13 Travel Advisory Systems I

T. Franke  
Extended Personalized Services in an Online Regional Tourism Consulting System ................................................................. 346

Y.-H. Hwang, U. Gretzel and D.R. Fesenmaier  
Behavioral Foundations for Human-Centric Travel Decision-Aid Systems ................................................................. 356

N. Mitsche  

## 14 Success Factors for Tourism Web Sites I

A.M. Morrison, J.E. Mills, S. Chuvessiriporn and J.A. Ismail  
Where are We Now? An Initial Analysis of Web-Based Marketing Issues Affecting Travel and Tourism ......................................................... 375

B. Oertel, T. Feil and S.L. Thio  
Benchmarking Information and Communication Applications for the Purpose of Marketing and Sales in the Tourism Sector ........................................ 387

K.W. Wöber, A. Scharl, M. Natter and A. Taudes  
Success Factors of European Hotel Web Sites ................................................. 397

## 15 Innovative Applications in the Hospitality Industry

A. Paraskevas and D. Buhalis  
Hosted Application Provision for Small and Medium Sized Tourism Enterprises: Are We Ready for This? ......................................................... 407

M. Sigala  
Investigating the ICT Productivity Paradox: Evidence from the UK Hotel Sector ................................................................. 417

V. Minghetti and P. Di Lucia Coletti  
Hotel IT Innovation: Creating Customer Value Through a Customer Information System ................................................. 427

## 16 Travel Advisory Systems II

J. Palkoska, F. Pühretmair, A M. Tjoa, R.R. Wagner and W. Wöß  
Advanced Query Mechanisms in Tourism Information Systems ................................. 438

F. Ricci, D. Blaas, N. Mirzadeh, A. Venturini and H. Werthner  
Intelligent Query Management for Travel Products Selection ................................. 448

K. Grabler and A.H. Zins  
Vacation Trip Decision Styles as Basis for an Automated Recommendation System: Lessons from Observational Studies ......................................... 458
17 Success Factors for Tourism Web Sites II

L. Yip and R. Law
A Study of User Preferences for Attributes of the Hong Kong Disneyland Website ................................................................. 470

G.J. van der Pijl
The Use of Internet Sites by Smaller Companies in the Leisure Industry in the Netherlands ........................................................................ 480

H. Nysveen and M. Lexhagen
Reduction of Perceived Risk through On-line Value-Added Services Offered on Tourism Businesses Web-Sites [work in progress] ................. 488

18 IT Supported Marketing

H. Pechlaner and D. Abfalter
Effective Product Bundling with Destination Card Systems: The Case of the TirolCard ................................................................. 497

D.-Y. Kim, A.M. Morrison and J.E. Mills
Examining the Web-Based Marketing Efforts of the First-Tier City Convention Centers in the U.S. ................................................................. 507

M. Weichbold and R. Bachleitner
Touch-Screen vs. Paper-and-Pencil vs. Face-to-Face Computer-Supported Rating of Services Compared to Conventional Customer Satisfaction Measurements ........................................................................ 517