Mobile and Web Innovations in Systems and Service-Oriented Engineering

Dickson K.W. Chiu (Dickson Computer System, Hong Kong)

The continuous advances in mobile and web technology are forming the areas of software and systems development and the connection between service users and providers.

Mobile and Web Innovations in Systems and Service-Oriented Engineering offers widespread knowledge on modern organizations and the complications of the current globalized computing environment. This book is aimed at both industry and academia on the multidisciplinary field of service-oriented engineering.

Topics Covered:

- Knowledge Management
- Mobile Cloud Computing
- Semantic Web
- Service Adoption and Diffusion
- SOA Environments
- Software Agents
- Virtual Systems

Dickson K.W. Chiu received the B.Sc. (Hons.) degree in Computer Studies from the University of Hong Kong in 1987. He received the M.Sc. (1994) and the Ph.D. (2000) degrees in Computer Science from the Hong Kong University of Science and Technology (HKUST). He started his own computer company while studying part-time. He has also taught at several universities in Hong Kong. His research interest is in service computing with a cross-disciplinary approach, involving workflows, software engineering, information technologies, agents, information system management, security, and databases. The results have been widely published in over 150 papers in international journals and conference proceedings (most of them have been indexed by SCI, SCI-E, EI, and SSCI), including many practical master and undergraduate project results. He received a best paper award in the 37th Hawaii International Conference on System Sciences in 2004. He is the founding Editor-in-Chief of the International Journal on Systems and Service-Oriented Engineering and serves in the editorial boards of several international journals. He co-founded several international workshops and co-edited several journal special issues. He also served in the program committees for over 100 international conferences and workshops. He is a Senior Member of both the ACM and the IEEE, and a life member of the Hong Kong Computer Society.
Section 1: Web Systems Innovations

Chapter 1
Improving Execution Times for Flash Applications
Ying Ming (University of Alberta, Canada)
Miller James (University of Alberta, Canada)

Chapter 2
FTT:
Ying Ming (University of Alberta, Canada)
Miller James (University of Alberta, Canada)

Chapter 3
Automated Ranking of Retrieving Query Results Based on XML Structure and Content Preferences
Yan Wei (Northeastern University, China)
Yan Li (Northeastern University, China)
Ma Z. M. (Northeastern University, China)

Chapter 4
Enabling Intelligence in Web-Based Collaborative Knowledge Management System
Maleewong Krisada (Shinawatra University, Thailand)
Anutariya Chutiporn (Shinawatra University, Thailand)
Wuwongse Vilas (Asian Institute of Technology, Thailand)

Chapter 5
An Adaptive System for Retrieval and Composition of Learning Objects
Yoonsook Biazzakorn (Asian Institute of Technology, Thailand)
Wuwongse Vilas (Asian Institute of Technology, Thailand)

Chapter 6
Integrating Semantic Web and Software Agents:
Gong Yiwei (Delft University of Technology, the Netherlands)
Overbeek Sietse (Delft University of Technology, the Netherlands)
Janssen Martin (Delft University of Technology, the Netherlands)

Chapter 7
Implementing Background Net with Reusuable System for Personalized Keyword Support
Chen Yuan (Macau University of Science and Technology, China)
Ding Liya (Macau University of Science and Technology, China)
Lo Siu-long (Macau University of Science and Technology, China)
Chia Dickson K. W. (Dickson Computer Systems, Hong Kong)

Chapter 8
Developing Rich Internet Applications as Social Sites on the Semantic Web:
Hermida Jesús M. (University of Alicante, Spain)
Meliá Santiago (University of Alicante, Spain)
Hermida Jesús M. (University of Alicante, Spain)
Gómez Jaime (University of Alicante, Spain)

Section 2: Web Services Innovations

Chapter 9
Flexible Provenance Tracing
Wang Liwei (Wuhan University, China)
Koeßler Henning (The University of Queensland, Australia)
Deng Ke (The University of Queensland, Australia)
Zhou Xiaofang (The University of Queensland, Australia)
Sadig Shazia (The University of Queensland, Australia)

Chapter 10
A Service Bus Architecture for Application Integration in the Planning and Production Phases of a Product Lifecycle
Minguez Jorge (University of Stuttgart, Germany)
Sücher Stefan (University of Stuttgart, Germany)
Rötteltmacher Philipp (University of Stuttgart, Germany)
Mitschang Bernhard (University of Stuttgart, Germany)

Chapter 11
A Service-Oriented User Interface for the Next Generation Web
Chen Shipping (CSIRO ICT Centre, Australia)
Nepal Surya (CSIRO ICT Centre, Australia)

Chapter 12
Service-Oriented Enterprise and Contractual Profit Sharing
Badrabsis Ali Habibi (K. N. Toosi University of Technology, Iran)
Tarokh Mohammad Jafar (K. N. Toosi University of Technology, Iran)
Mohammadi Shahrabari (K. N. Toosi University of Technology, Iran)

Chapter 13
Dynamic Business Collaborations Through Contract Services
Nepal Surya (CSIRO ICT Centre, Australia)
Chen Shipping (CSIRO ICT Centre, Australia)

Chapter 14
Enforcing ASTD-Accept-Control Policies with WS-BPEL Processes in SOA Environments
Jiague Michel Embe (Université de Sherbrooke, Canada, and Université Paris-Est Créteil Val-de-Marne, France)
Frappler Marc (Université de Sherbrooke, Canada)
Gervais Frédéric (Université Paris-Est Créteil Val-de-Marne, France)
Laleau Régine (Université Paris-Est Créteil Val-de-Marne, France)
St-Denis Richard (Université de Sherbrooke, Canada)

Chapter 15
Governance of Cross-Organizational HealthCare Document Exchange through Watermarking Services and Alerts
Chia Dickson K. W. (Dickson Computer Systems, Hong Kong)
Wang Yuexuan (Tsinghua University, China)
Hung Patrick C. K. (University of Ontario Institute of Technology, Canada)
Chen Viewying S. Y. (Hong Kong University of Science and Technology, Hong Kong)
Chan Kai-Kin (Hong Kong Baptist University, Hong Kong)
Kafeza Elenanna (Athens University of Economics and Business, Greece)
Ting Wei-Feng (Fu-Jen Catholic University, Taiwan)
Zhuang Yi (Zhijiang Gonggonghang University, China)
Jiang Nan (Hangzhou No. 1 People’s Hospital, China)

Section 3: Mobile Innovations

Chapter 16
Segmentation Matters:
Sell Anna (Abo Akademi University, Finland)
Waldén Pätkö (Abo Akademi University, Finland)
Carlsson Christer (Abo Akademi University, Finland)

Chapter 17
Enabling Biodefense Research with Mobile-Cloud Computing
Zhang Jingyu (University of Sydney, Australia)
Yao Jinhui (University of Sydney and CSIRO, Australia)
Chen Shipping (CSIRO, Australia)
Levy David (University of Sydney, Australia)

Chapter 18
Towards a Framework for Weaving Social Networks into Mobile Commerce
Maamr Zakaria (Zayed University, UAE)
Moustafaoui Soraya Koudadi (The Open University, UK)
Akhber Fahim (King Saud University, Saudi Arabia)

Chapter 19
RFD Enabled Vehicular Network for Ubiquitous Travel Query
Zhang Tianle (Beijing University of Posts and Telecommunications, China)
Wang Chuanlu (Beijing University of Posts and Telecommunications, China)
Luo Zongwei (The University of Hong Kong, China)
Han Shihua (Xiamen University, China)
Dong Mengyuan (Xiamen University, China)

Chapter 20
Enabling ERP System with RFD:
Chia Dickson K. W. (Dickson Computer Systems and The Hong Kong Polytechnic University, Hong Kong)
Mark Kai-Pan (City University of Hong Kong and Chinese University of Hong Kong, Hong Kong)
Kafeza Elenanna (Athens University of Economics and Business, Greece)
Wong Tat-Pui (The Hong Kong Polytechnic University, Hong Kong)
Order Your Copy Today!

| Name: ________________________________ | Enclosed is check payable to IGI Global in US Dollars, drawn on a US-based bank |
| Organization: ________________________________ | Credit Card □ Mastercard □ Visa □ Am. Express |
| Address: __________________________________ | 3 or 4 Digit Security Code: __________________________ |
| City, State, Zip: ________________________________ | Name on Card: ________________________________ |
| Country: __________________________________ | Account #: ________________________________ |
| Tel: __________________________________ | Expiration Date: ________________________________ |
| Fax: __________________________________ | E-mail: __________________________________ |
| E-mail: __________________________________ |