

# Software Reuse in the Emerging Cloud Computing Era

By Hongji Yang

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With the rapid development of computing hardware, high-speed network, web programming, distributed and parallel computing, and other technologies, cloud computing has recently emerged as a commercial reality.

**Software Reuse in the Emerging Cloud Computing Era** targets a spectrum of readers, including researcher, practitioners, educators, and students and even part of the end users in software engineering, computing, networks and distributed systems, and information systems. The handbook will help to clarify the present fast-advancing literature of the current state of art and knowledge in the areas of the development and reuse of reusable assets in emerging software systems and applications, as part of the information science and technology literature. It will no doubt expand the above literature, and promote the exchange and evolution of the above advances in software reuse and cloud computing among multiple disciplines, and a wide spectrum of research, industry, and user communities.

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### Editorial Review

#### Review

The 12 papers in this collection describe different approaches for reusing software across multiple architectures, platforms, services, and cloud applications. The opening chapters propose techniques for migrating a legacy system to the cloud and a model expansion method for evolving hierarchically composed designs with model composition graph schema. Other contributions explain the benefits of cloud computing, challenges to adopting a service-oriented architecture, transaction models for dependable cloud computing, and tools for social customer relationship management. --Annotation ©2012 Book News Inc. Portland, OR

#### About the Author

**Hongji Yang** is Leader of SERG at the Software Technology Research Laboratory at De Montfort University, UK. He serves in the Department of Computer Technology. His research interests include software engineering and distributed computing. He teaches Software Architecture and Software Evolution. He served as a programme co-chair at IEEE International Conference on Software Maintenance 1999 and as programme chair at IEEE Computer Software and Application Conference 2002.

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