Software Reuse in the Emerging Cloud Computing Era

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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.

Topics Covered:

• Cloud computing
• Data migration
• Development
• Model driven architecture
• Repository of reuse assets
• Requirements elicitation
• Reuse assets
• Service based systems
• Software reuse
• Specification

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Market: This premier publication is essential for all academic and research library reference collections. It is a crucial tool for academicians, researchers, and practitioners and is ideal for classroom use.

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.
Section 1: Reuse Assets

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