Mashups: Concepts, Models and Architectures (Data-Centric Systems and Applications)

By Florian Daniel, Maristella Matera

Mashups: Concepts, Models and Architectures (Data-Centric Systems and Applications) By Florian Daniel, Maristella Matera

Mashups have emerged as an innovative software trend that re-interprets existing Web building blocks and leverages the composition of individual components in novel, value-adding ways. Additional appeal also derives from their potential to turn non-programmers into developers.

Daniel and Matera have written the first comprehensive reference work for mashups. They systematically cover the main concepts and techniques underlying mashup design and development, the synergies among the models involved at different levels of abstraction and the way models materialize into composition paradigms and architectures of corresponding development tools. The book deliberately takes a balanced approach, combining a scientific perspective on the topic with an in-depth view on relevant technologies.

To this end, the first part of the book introduces the theoretical and technological foundations for designing and developing mashups, as well as for designing tools that can aid mashup development. The second part then focuses more specifically on various aspects of mashups. It discusses a set of core component technologies, core approaches and architectural patterns, with a particular emphasis on tool-aided mashup development exploiting model-driven architectures. Development processes for mashups are also discussed and special attention is paid to composition paradigms for the end-user development of mashups and quality issues.

Overall, the book is of interest to a wide range of readers. Students, lecturers, and researchers will find a comprehensive overview of core concepts and technological foundations for mashup implementation and composition. Even without low-level coding details, practitioners like software architects will find guidance on key implementation concepts, architectural patterns and development tools and approaches. A related website provides additional teaching material which can be used either as part of a course or for self study.

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Editorial Review

Review
"This book is timely, provides a through scientific investigation and also has practical relevance in the general area of composition and mashups. It is of particular interest to researchers and professionals wishing to learn about relevant concepts and techniques in service mashups, composition, and end-user programming." – From the Preface by Boualem Benatallah, University of New South Wales, Sydney

From the Back Cover

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About the Author

Florian Daniel is a senior research fellow at the University of Trento, Italy. He has been visiting researcher at UNSW, Sydney, Australia, and HP Labs, Palo Alto, USA, and post-doc researcher at Politecnico di Milano, Italy. Florian has been working on mashups and lightweight integration on the Web for more than seven years in the context of own research, EU-FP7 projects, and industry-funded projects in Europe, the United States and China. His research interests also include conceptual modeling of Web applications, business process management and service-oriented computing. Florian has served as PC Chair of the international conferences BPM, ICWE and MobiWIS.

Maristella Matera is Associate Professor at Politecnico di Milano. Her research focuses on Web engineering, with particular emphasis on model-based methods and tools for Web application development. She dedicated the last years to investigating mashup languages and tools, with particular focus on the definition of

composition paradigms for end-user development. She worked on these (and other) research topics in the context of several national and international research projects. She published the achieved results in more than one hundred papers and in the books "Engineering Web Applications" (Springer, 2009) and "Designing Data-Intensive Web Applications" (Morgan Kaufmann publisher, 2002).

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