



# Distributed Event-Based Systems

*By Gero Mühl, Ludger Fiege, Peter Pietzuch*

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This book provides an in-depth description of event-based systems, covering topics ranging from local event matching and distributed event forwarding algorithms, through a practical discussion of software engineering issues raised by the event-based style, to state-of-the-art research in event-based systems like composite event detection and security. The authors offer a comprehensive overview, and show the power of event-based architectures in modern system design, encouraging professionals to exploit this technique in next generation large-scale distributed applications like information dissemination, network monitoring, enterprise application integration, or mobile systems.

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"The book provides the reader with both formal treatment and practical discussion of issues raised by the event-based style. ... By its content, the book addresses the software development theorists and practitioners alike, especially those interested in large-scale distributed application design and implementation. It is largely self-contained and the exposition is meticulous and rigorous. Altogether, this book is a great enrichment to the existing texts on the subject, and it deserves a wide audience." (Tudor Balanescu, Zentralblatt MATH, Vol. 1116 (18), 2007)

"This book is an overview of the key theory and concepts around the event systems used by loosely coupled distributed applications. ... Overall, I think the book's coverage of theory and specification is strong. It provides a good framework for understanding the theoretical foundations of event-based systems." (W. Hu, ACM Computing Reviews, Vol. 49 (5), 2008)

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