# Agent-Oriented Software Engineering: Reflections on Architectures, Methodologies, Languages, and Frameworks

*From Springer*



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With this book, Onn Shehory and Arnon Sturm, together with further contributors, introduce the reader to various facets of agent-oriented software engineering (AOSE). They provide a selected collection of state-of-the-art findings, which combines research from information systems, artificial intelligence, distributed systems and software engineering and covers essential development aspects of agent-based systems.

The book chapters are organized into five parts. The first part introduces the AOSE domain in general, including introduction to agents and the peculiarities of software engineering for developing MAS. The second part describes general aspects of AOSE, like architectural models, design patterns and communication. Next, part three discusses AOSE methodologies and associated research directions and elaborates on Prometheus, O-MaSE and INGENIAS. Part four then addresses agent-oriented programming languages. Finally, the fifth part presents studies related to the implementation of agents and multi-agent systems.

The book not only provides a comprehensive review of design approaches for specifying agent-based systems, but also covers implementation aspects such as communication, standards and tools and environments for developing agent-based systems. It is thus of interest to researchers, practitioners and students who are interested in exploring the agent paradigm for developing software systems.

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**Agent-Oriented Software Engineering: Reflections on Architectures, Methodologies, Languages, and Frameworks From Springer Bibliography**

- Sales Rank: #4090701 in Books
- Published on: 2014-06-03
- Original language: English
- Number of items: 1
- Dimensions: 9.21" h x .81" w x 6.14" l, 1.46 pounds
- Binding: Hardcover
- 331 pages

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Review

From the book reviews:

"This book is a comprehensive introduction to the field, with contributors drawn from the major groups working in the domain. … the reader has an authentic opportunity for exposure to the state of the art. … the dominant audience for this book will be drawn from the community of researchers and graduate students in the field, I also commend it as a valuable read for software engineering practitioners interested in fresh perspectives on distributed systems development." (Liz Sonenberg, Computing Reviews, September, 2014)

From the Back Cover

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About the Author

With this book, Onn Shehory and Arnon Sturm, together with further contributors, introduce the reader to various facets of agent-oriented soft ware engineering (AOSE). They provide a selected collection of state-of-the-art findings, which combines research from information systems, artificial intelligence, distributed systems, and soft ware engineering and covers essential development aspects of agent-based systems.

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*"The present volume is a state-of-the-art collection of articles on agent-oriented soft ware engineering. The articles presented herein address issues from methodologies to programming languages and development platforms. While this volume may not mark the end of the story of agent-oriented soft ware development, it does, I think, represent an important milestone in the history of the field, and will surely prompt much future research and development."*

From the Foreword by Michael Wooldridge, University of Oxford, UK

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