The security of software systems in recent years has been transformed from a mono-dimensional technical challenge to a multi-dimensional technico-social challenge, due to the wide usage of software systems in almost every area of the human life. This situation requires a different and more holistic approach to the development of secure software systems.

Software Engineering for Secure Systems: Industrial and Research Perspectives presents the most recent and innovative lines of research and industrial practice related to secure software engineering. The book provides coverage of recent advances in the area of secure software engineering that address the various stages of the development process from requirements to testing to implementation. Contributions offer a comprehensive understanding secure software engineering, inspire and motivate further research and development, and bridge the gap between academic research and industrial practice.

Topics Covered:
- Comparing modeling approaches for security patterns
- Incorporating social trust into design practices
- Model-based analysis of control systems
- Network system configuration and management
- Privacy aware systems
- Security and performance during system design
- Security over the information system development cycle
- State model diagrams
- State of practice in secure software
- Using security patterns to develop secure systems


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**Using Security Patterns to Develop Secure Systems**
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- Yoshioka Nobukazu (GRACE Center, National Institute of Informatics, Japan)
- Washizaki Hironori (Waseda University, Japan)
- Jurjens Jan (Technical University of Dortmund, Germany)
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### Chapter 3

**A Pattern-Based Method to Develop Secure Software**
- Schmidt Holger (Technical University Dortmund, Germany)
- Hatebur Denis (University Duisburg-Essen and ITESYS Institut für technische Systeme GmbH, Germany)
- Heisel Maritta (University Duisburg-Essen, Germany)

### Chapter 4

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- Hayashi Shinpei (Tokyo Institute of Technology, Japan)
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- Mellado D. (Spanish Tax Agency, Madrid, Spain)
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- Kavaki Evangelia (University of the Aegean, Greece)
- Gritzalis Stefanos (University of the Aegean, Greece)

### Chapter 9

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- Colombo Pietro (Università degli studi dell’Insubria, Italy)
- Scur Sabina (Università degli studi dell’Insubria, Italy)

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**Incorporating Social Trust into Design Practices for Secure Systems**
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- Hodgson Paul (BT (British Telecom), UK)

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