



# Near Field Communication (NFC): From Theory to Practice

By Vedat Coskun, Kerem Ok, Busra Ozdenizci

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**Near Field Communication (NFC): From Theory to Practice** By Vedat Coskun, Kerem Ok, Busra Ozdenizci

**This book provides the technical essentials, state-of-the-art knowledge, business ecosystem and standards of Near Field Communication (NFC) by NFC Lab – Istanbul research centre which conducts intense research on NFC technology.**

In this book, the authors present the contemporary research on all aspects of NFC, addressing related security aspects as well as information on various business models. In addition, the book provides comprehensive information a designer needs to design an NFC project, an analyzer needs to analyze requirements of a new NFC based system, and a programmer needs to implement an application. Furthermore, the authors introduce the technical and administrative issues related to NFC technology, standards, and global stakeholders. It also offers comprehensive information as well as use case studies for each NFC operating mode to give the usage idea behind each operating mode thoroughly. Examples of NFC application development are provided using Java technology, and security considerations are discussed in detail.

## Key Features:

- Offers a complete understanding of the NFC technology, including standards, technical essentials, operating modes, application development with Java, security and privacy, business ecosystem analysis
- Provides analysis, design as well as development guidance for professionals from administrative and technical perspectives
- Discusses methods, techniques and modelling support including UML are demonstrated with real cases
- Contains case studies such as payment, ticketing, social networking and remote shopping

This book will be an invaluable guide for business and ecosystem analysts, project managers, mobile commerce consultants, system and application developers, mobile developers and practitioners. It will also be of interest to researchers, software engineers, computer scientists, information technology specialists including students and graduates.

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### Editorial Review

#### Review

“While NFC is a very specific and limited protocol, the fact that this book covers all aspects of NFC and how it relates to many other communication methods makes the book very useful to a wide audience and an interesting read.” (*IEEE Microwave Magazine*, 1 September 2013)

#### From the Back Cover

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#### About the Author

**Dr. Vedat Coskun** established NFC Lab - Istanbul (NFCLab.com), the leading and pioneer research lab on Near Field Communication (NFC) technology worldwide, to take initiative on sustainable evolution of the technology to create a win-win ecosystem for all the actors in the game such as users and financial and technical organizations. His major research areas are NFC, Mobility, Mobile Application Development, Cashless Payment, Smartcards, Java Technology, and Mobile Security.

By being a Professor in Information Technology Department of ISIK University; he is teaching Mobility, NFC, Java, Android and Security. He published many conference and journal papers in NFC as well in other research areas such as Security.

He works as consultant for both national and international companies to promote NFC in a sustainable ecosystem. In this manner, he is leading various projects in NFCLab - Istanbul and acting as consultant and manager in many projects of various companies. He also plays role in conferences and other activities related to his research areas.

**Kerem Ok** is currently a researcher in NFC Lab - Istanbul and participated in several projects in NFC technology

**Busra Ozdenizci** is currently a researcher in NFC Lab - Istanbul and participated in several projects in NFC technology

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