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Nota di contenuto	Cover; Managing Complexity of Information Systems; Title Page; Copyright Page; Table of Contents; Foreword; Preface; Chapter 1. Why Simplicity?; 1.1. Solving conflicting requirements; 1.2. Three periods in IS management; 1.2.1. Management driven by technology; 1.2.2. Management through cost reduction; 1.2.3. Management through value creation; 1.3. And now ... simplicity!; 1.3.1. Technology, cost reduction, value creation ... So what's next?; 1.4. Plan of the book; Chapter 2. Complexity, Simplicity, and Abstraction; 2.1. What does information theory tell us?; 2.1.1. Shannon's entropy 2.1.2. Kolmogorov complexity2.1.2.1. Complexity of objects versus complexity of binary strings; 2.1.2.2. Relation to Shannon's entropy; 2.1.2.3. Can we compute K-complexity?; 2.1.3. Bennett's logical depth; 2.1.4. Abstraction in light of scale and depth; 2.1.5. Harvesting information theory; 2.2. What does the design tell us?; 2.2.1. Simplicity by reduction; 2.2.2. Simplicity by hiding complexity; 2.2.2.1. Customers; 2.2.2.2. Business analysts; 2.2.2.3. IT personnel; 2.2.3. Simplicity through organization; 2.2.4. Simplicity through learning

2.2.4.1. Learning obviates the need to hide complexity; 2.2.4.2. Learning allows complexity transformation; 2.2.5. Simplicity implies time saving; 2.2.5.1. Lack of time; 2.2.5.2. How simplicity saves time; 2.2.6. Simplicity needs trust; 2.2.7. What does software architecture tell us?; 2.2.7.1. The complexity of code and of IS architecture; 2.2.8. Abstraction in software engineering; 2.2.8.1. Abstraction is everywhere in software; 2.2.8.2. Depth and scale revisited; Chapter 3. Value or Values?; 3.1. Who is concerned?; 3.1.1. Internal stakeholders; 3.1.2. External stakeholders; 3.2. Concepts of value for an IS; 3.2.1. Book value; 3.2.2. Net worth; 3.2.3. Use value; 3.2.3.1. Functional criterion; 3.2.3.2. Non-functional criteria; 3.2.4. Strategic value; 3.2.5. Sustainability value; 3.3. Are these values sufficient and independent?; 3.3.1. IT chaos; 3.3.2. Tech academy; 3.3.3. Alignment trap; 3.3.4. Users are unimportant; 3.3.5. Business-user tyranny; 3.3.6. Wrong direction; 3.3.7. Architecture is a waste of money; 3.3.8. IS heaven; Chapter 4. Promoting Value Through Simplicity; 4.1. Growing technical heterogeneity; 4.1.1. Openness; 4.1.1.1. Why complexity increases; 4.1.1.2. Implementing simplicity; 4.1.2. Rapid obsolescence of IT; 4.1.2.1. Why complexity increases; 4.1.2.2. Implementing simplicity; 4.1.3. Absence of technological vision and leadership; 4.1.3.1. Why complexity increases; 4.1.3.2. Implementing simplicity; 4.2. Changing requirements; 4.2.1. Why complexity increases; 4.2.2. Implementing simplicity; 4.2.2.1. Technical answers; 4.2.2.2. Organizational answers; 4.3. Human factors; 4.3.1. Multidisciplinarity; 4.3.1.1. Why complexity increases; 4.3.1.2. Implementing simplicity; 4.3.2. Disempowerment of IT Skills; 4.3.2.1. Why complexity increases; 4.3.2.2. Implementing simplicity

Sommario/riassunto

This book is about complexity in Information Systems (IS). The subject is addressed from both conceptual and applied perspectives. Concepts are drawn from information theory, industrial design and software engineering. Its content capitalizes on experiences gathered by the authors during various contracting jobs involving software architecture, modeling and IS architecture that were conducted for large organizations in the banking and industry sectors, as well as in the public sector. The authors develop the point of view according to which mastering complexity involves two essential steps:

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Titolo	Food Safety in Poultry Meat Production / / edited by Kumar Venkitanarayanan, Siddhartha Thakur, Steven C. Ricke
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Livello bibliografico	Monografia
Nota di contenuto	1. Salmonella in poultry meat production -- 2. Organic poultry production- Current status and challenges -- 3. Antibiotic usage in poultry production and antimicrobial resistant Salmonella in poultry -- 4. Campylobacter in poultry -- 5. Pre-harvest approaches to improve poultry meat safety -- 6. Post-harvest approaches to improve poultry meat safety -- 7. Advances in packaging of poultry meat products -- 8. Advances in vaccines for controlling Salmonella spp. in poultry -- 9. Advances in vaccines for controlling Campylobacter spp. in poultry -- 10. Metabolomics, microbiome and gut health in relation to pathogen colonization in chickens -- 11. Conventional, molecular and new generation approaches for detection of pathogens in poultry meat -- 12. Avian Pathogenic Escherichia coli –link to foodborne/urinary tract infections in humans -- 13. Regulations in poultry meat processing.
Sommario/riassunto	This comprehensive study of poultry meat safety offers readers the most up-to-date information on food safety concerns in poultry meat production. Chapters address recent topics of interest such as organic

poultry production, antimicrobial resistant pathogens in poultry, antibiotic usage in poultry production, and pre- and post- harvest approaches to improving poultry meat safety. The last couple of decades have observed a significant increase in poultry meat production in the US. However, poultry meat is a potential source of foodborne pathogens such as Salmonella, Campylobacter spp. and pathogenic Escherichia coli (APEC linked to human infections), leading to economic losses to the poultry industry and impacting public health. Advances in knowledge in microbiology, molecular biology, immunology and “omics” fields have intensified efforts to improve the microbiological safety of poultry by targeting virulence mechanisms of the pathogens, developing vaccines and improving gut health in chickens. Moreover, due to the emergence of multidrug resistance in poultry-borne pathogens, and growth of organic poultry production, there exists significant interest for developing natural strategies for controlling pathogens in chickens. This edited volume provides insight into these strategies and covers other material of interest to food microbiologists, public health personnel, and poultry scientists. Readers of various backgrounds will appreciate its incorporation of recent developments not covered in other publications on the subject.
