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| 1. Record Nr. | UNINA9910677903003321 |
| Autore | Kenett Ron |
| Titolo | Systems engineering in the fourth industrial revolution : big data, novel technologies, and modern systems engineering / / edited by Robert S. Swarz, Avigdor Zonnenshain and Ron S. Kenett |
| Pubbl/distr/stampa | Hoboken, New Jersey : , : Wiley, , 2020 |
| ISBN | 1-119-51392-8 |
| | 1-5231-3332-5 |
| | 1-119-51395-2 |
| | 1-119-51394-4 |
| Edizione | [1st edition] |
| Descrizione fisica | 1 online resource (659 pages) |
| Disciplina | 620.001171 |
| Soggetti | Systems engineering |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Sommario/riassunto | An up-to-date guide for using massive amounts of data and novel technologies to design, build, and maintain better systems engineering Systems Engineering in the Fourth Industrial Revolution: Big Data, Novel Technologies, and Modern Systems Engineering offers a guide to the recent changes in systems engineering prompted by the current challenging and innovative industrial environment called the Fourth Industrial Revolution—INDUSTRY 4.0. This book contains advanced models, innovative practices, and state-of-the-art research findings on systems engineering. The contributors, an international panel of experts on the topic, explore the key elements in systems engineering that have shifted towards data collection and analytics, available and used in the design and development of systems and also in the later life-cycle stages of use and retirement. The contributors address the issues in a system in which the system involves data in its operation, contrasting with earlier approaches in which data, models, and algorithms were less involved in the function of the system. The book covers a wide range of topics including five systems engineering domains: systems engineering and systems thinking; systems software |

and process engineering; the digital factory; reliability and maintainability modeling and analytics; and organizational aspects of systems engineering. This important resource: Presents new and advanced approaches, methodologies, and tools for designing, testing, deploying, and maintaining advanced complex systems Explores effective evidence-based risk management practices Describes an integrated approach to safety, reliability, and cyber security based on system theory Discusses entrepreneurship as a multidisciplinary system Emphasizes technical merits of systems engineering concepts by providing technical models Written for systems engineers, Systems Engineering in the Fourth Industrial Revolution offers an up-to-date resource that contains the best practices and most recent research on the topic of systems engineering.

| 2. | Record Nr. | UNINA9910818950103321 |
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| | Autore | Brotby W. Krag |
| | Titolo | Pragmatic security metrics : applying metametrics to information security / / W. Krag Brotby and Gary Hinson ; preface by M.E. Kabay |
| | Pubbl/distr/stampa | Boca Raton : , : CRC Press, Taylor & Francis Group, , [2013] 2013 |
| | ISBN | 0-429-11156-8 1-4398-8153-7 |
| | Edizione | [1st edition] |
| | Descrizione fisica | 1 online resource (xviii, 485 pages) : illustrations |
| | Collana | Gale eBooks |
| | Disciplina | 658.478 |
| | Soggetti | Business enterprises - Computer networks - Security measures Computer security Data protection |
| | Lingua di pubblicazione | Inglese |
| | Formato | Materiale a stampa |
| | Livello bibliografico | Monografia |
| | Note generali | "An Auerbach book." |
| | Nota di bibliografia | Includes bibliographical references. |
| | Nota di contenuto | Front Cover; Contents; Foreword; Preface; Acknowledgments; Office Memorandum; Chapter 1 - Introduction; Chapter 2 - Why Measure Information Security?; Chapter 3 - The Art and Science of Security Metrics; Chapter 4 - Audiences for Security Metrics; Chapter 5 - |

Finding Candidate Metrics; Chapter 6 - Metametrics and the PRAGMATIC Approach; Chapter 7 - 150+ Example Security Metrics; Chapter 8 - Designing PRAGMATIC Security Measurement System; Chapter 9 - Advanced Information Security Metrics; Chapter 10 - Downsides of Metrics; Chapter 11 - Using PRAGMATIC Metrics in Practice
Chapter 12 - Case StudyChapter 13 - Conclusions; Appendix A: PRAGMATIC Criteria; Appendix B: Business Model of Information Security (BMIS); Appendix C: Capability Maturity Model (CMM); Appendix D: Example Opinion Survey Form; Appendix E: SABSA Security Attributes Table; Appendix F: Prototype Metrics Catalog; Appendix G: Effect of Weighting the PRAGMATIC Criteria; Appendix H: ISO27k Maturity Scale Metrics; Appendix I: Sample Management Survey; Appendix J: Observer Bias; Appendix K: Observer Calibration; Appendix L: Bibliography; Back Cover

| Sommario/riassunto | Other books on information security metrics discuss number theory and statistics in academic terms. Light on mathematics and heavy on utility, PRAGMATIC Security Metrics: Applying Metametrics to Information Security breaks the mold. This is the ultimate how-to-do-it guide for security metrics. Packed with time-saving tips, the book offers easy-to-follow guidance for those struggling with security metrics. Step by step, it clearly explains how to specify, develop, use, and maintain an information security measurement system (a comprehensive suite of metrics) to help: Security professionals syst |