

1. Record Nr.	UNINA9910460709403321
Autore	Lumley Sarah <1957->
Titolo	Sordid boon? : the context of sustainability in historical and contemporary global economies / / Sarah Lumley
Pubbl/distr/stampa	Bethesda : , : Academica Press, , [2013] ©2013
Descrizione fisica	1 online resource (364 p.)
Disciplina	337
Soggetti	Sustainable development - History Sustainability - Economic aspects Environmental policy Social policy Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.

2. Record Nr.	UNINA9910140838703321
Autore	Abran Alain <1949->
Titolo	Software metrics and software metrology / / Alain Abran
Pubbl/distr/stampa	Los Alamitos, CA : , : IEEE Computer Society, , c2010 [Piscataqay, New Jersey] : , : IEEE Xplore, , [2010]
ISBN	1-118-02932-1 1-282-70763-9 9786612707636 0-470-60683-5 0-470-60682-7
Descrizione fisica	1 online resource (350 p.)
Disciplina	005.14
Soggetti	Software measurement - Design
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Foreword vii -- Preface ix -- Acknowledgments xvii -- About the Author xix -- PART 1: Key Concepts for the Design of Software Measures 1 -- 1 INTRODUCTION 3 -- 2 FROM MEASUREMENT METHODS TO QUANTITATIVE MODELS: A MEASUREMENT CONTEXT MODEL 17 -- 3 METROLOGY AND QUALITY CRITERIA IN SOFTWARE MEASUREMENT 47 -- 4 QUANTIFICATION AND MEASUREMENT ARE NOT THE SAME! 67 -- 5 THE DESIGN OF SOFTWARE MEASUREMENT METHODS 99 -- PART 2: Some Popular Software Measures: How Good Are They? 129 -- 6 CYCLOMATIC COMPLEXITY NUMBER: ANALYSIS OF ITS DESIGN 131 -- 7 HALSTEAD'S METRICS: ANALYSIS OF THEIR DESIGNS 145 -- 8 FUNCTION POINTS: ANALYSIS OF THEIR DESIGN 161 -- 9 USE CASE POINTS: ANALYSIS OF THEIR DESIGN 191 -- 10 ISO 9126: ANALYSIS OF QUALITY MODELS AND MEASURES 205 -- PART 3: The Design of COSMIC - ISO 19761 229 -- 11 COSMIC: DESIGN OF AN INITIAL PROTOTYPE 231 -- 12 COSMIC: SCALING UP AND INDUSTRIALIZATION 247 -- PART 4: Other Issues in the Design of Software Measures 267 -- 13 CONVERTIBILITY ACROSS MEASUREMENT METHODS 269 -- 14 DESIGN OF STANDARD ETALONS: THE NEXT FRONTIER IN SOFTWARE MEASUREMENT 281 -- Appendix A: List of

Sommario/riassunto

A rigorous, step-by-step approach to Evaluating and designing software measures Hundreds of software measures have been proposed to the industry over the past forty years, but limitations in their design mean that most of them are of insufficient use to practitioners. So how can practitioners recognize which measures are sound and useful for decision-making? Moreover, for those who have to design new software measures, what must they do to build sound ones? Software Metrics and Software Metrology looks at the fundamentals of the design of a measurement method, which forms the foundation of the measures available in the sciences and in engineering. Alain Abran provides a step-by-step approach to both analyzing the design of current software measures and designing new, robust software measures for a specific business or engineering need. He draws upon years of experience to ensure that software engineers and managers will apply the best practices in software measurement-and therefore be equipped to respond to the most demanding customers and feel supported by senior executives.. Presents the key concepts that dictate whether a software measure's design is sufficiently strong. Features several case studies analyzing strengths and weaknesses in the design of some of the software measures most widely used or quoted. Describes how lessons learned led to the design of the COSMIC - ISO 19761 method for the measurement of the functional size of software, from its initial prototype to its adoption by the ISO as an international standard. Illustrates day-to-day software measurement issues that have not been seriously addressed, from convertibility across measurement designs to measurement standard etalons. Includes chapter exercises for classroom use Software Metrics and Software Metrology is meant for software quality specialists and process improvement analysts and managers, in software organizations of all sizes. In addition, this book introduces many of the theoretical concepts and references needed by professionals, managers, and students to help them understand the fundamentals of the identification and evaluation of software development and maintenance processes, as well as improvements to them.
