1. Record Nr. UNINA9910830556203321 Software evolution and feedback [[electronic resource]]: theory and Titolo practice / / edited by Nazim H. Madhavji, Juan C. Fernandez-Ramil and Dewayne E. Perry Chichester, England; ; Hoboken, NJ, : John Wiley & Sons, c2006 Pubbl/distr/stampa **ISBN** 1-280-64996-8 9786610649969 0-470-87182-2 0-470-87181-4 Descrizione fisica 1 online resource (613 p.) Altri autori (Persone) MadhavjiNazim H Fernandez RamilJuan Carlos PerryDewayne E Disciplina 005.1 005.3 Soggetti Computer software - Development Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Description based upon print version of record. Note generali Nota di bibliografia Includes bibliographical references and index. Nota di contenuto SOFTWARE EVOLUTION AND FEEDBACK: Contents: Foreword: Preface: Acknowledgements; Editors' Biographies; List of Contributors; PART ONE SOFTWARE EVOLUTION: 1 Software Evolution: 1.1 Introduction: 1.1.1 Evolution; 1.1.2 Interpretation of the Term Evolution in the Context of Software; 1.2 The Evolution of Large Software Systems; 1.2.1 Early Work: 1.2.2 Large Programs: 1.3 Program Classification: 1.3.1 The SPE Program Classification Schema; 1.3.2 S-type Applications and Software; 1.3.3 E-type Applications and Software; 1.3.4 P-type Situations and Software; 1.4 The Inevitability of Evolution 1.5 Levels of Software-Related Evolution 1.6 Ab Initio Implementation or Change; 1.6.1 Process Steps; 1.6.2 The LST Paradigm; 1.6.3 Phenomenological Analysis of Real-World Computer Usage: 1.6.4 Theoretical Underpinning; 1.6.5 The Value of Formalisms and of Verification; 1.6.6 Bounding; 1.6.7 The Consequence: Continual System

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Sommario/riassunto

Evolution of software has long been recognized as one of the most problematic and challenging areas in the field of software engineering, as evidenced by the high, often up to 60-80%, life-cycle costs attributed to this activity over the life of a software system. Studies of software evolution are central to the understanding and practice of software development. Yet it has received relatively little attention in the field of software engineering. This book focuses on topics aimed at giving a scientific insight into the aspect of software evolution and feedback. In summary, the book cover

4.2.2 Software: A Utility