1.	Record Nr.	UNINA9910877207603321
	Titolo	Software evolution and feedback : theory and practice / / edited by Nazim H. Madhavji, Juan C. Fernandez-Ramil and Dewayne E. Perry
	Pubbl/distr/stampa	Chichester, England ; ; Hoboken, NJ, : John Wiley & Sons, c2006
	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
	Soggetti	Computer software - Development
	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	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 Evolution1.6 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 Evolution; 1.6.8 Summary; 1.6.9 Principle of Software Uncertainty; 1.7 Software Systems Evolution; 1.7.1 Early Work; 1.7.2 FEAST; 1.7.3 The Growth Trend; 1.7.4 Evolution Drivers; 1.7.5 Relationship Between the Above Levels of Evolution; 1.7.6 Evolutionary Development

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