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Q Search software to Citations of "Software maintenance and evolution: a roadmap" Introduction It is widely acknowledged that software maintenance occupies a large fraction of the software Page 1 of development cycle [2, 24], where maintenance includes modifying, extending, debugging, testing, and documenting the application. The arguments raised in [4] might point to a solution. "Genera Hence, whether a system is kept in evolution or downgraded to the servicing stage [4] is a managerial decision. For comprehending this aspect of software evolution, empirical knowledge about process and human aspects is still Show conte needed [5]. References: Introduction and rationale Over the years studies of industrially evolved software have contributed to a body of [1] K. H knowledge of the software evolution phenomenon [1, 3, 14, 15, 16]. ce on Software Engineering - The Future These sheets are subject to similar evolutionary patterns of possibly staged maintenance [3] as conventional software of comparable strategic importance. • For instance, the object-orientation, often considered the "solution for the software maintenance" [1], created new problems for the maintenance [4] and should be used with very care to assure that the maintenance will not be more g [II]." "It is w problematic than in the traditional legacy systems. I. INTRODUCTION Understanding the rationale and design knowledge of a software system is essential when Show conte maintaining or evolving the system [1]. Therefore, as Bohner and Arnold [3] and Bennett and Rajlich [2] point out, a good software architecture should be References: evolvable, flexible. ∘ [II] S. R g, Vol. SE-11, No. 4, pages 367-• This makes it more and more difficult to evolve the program, and will most likely result in code decay [2]. EEE 375, Ap Generally, testing is the most time-consuming activity during software maintenance [1]. Furthermore, it is reported that corrective changes account to only 21% of changes [2], so we cannot conclude that defects are the main reason for change. View Details "Regres maintenance [2, 11, 14]."