

Software Evolution

- The Law of Continuing Change (1974): E-type systems must be continually adapted else they become progressively less satisfactory.
- The Law of Increasing Complexity (1974): As an E-type system evolves its complexity increases unless work is done to maintain or reduce it.
- The Law of Self Regulation (1974): The E-type system evolution process is self-regulating with distribution of product and process measures close to normal.
- The Law of Conservation of Organizational Stability (1980): The average effective global activity rate in an evolving E-type system is invariant over product lifetime.
- The Law of Conservation of Familiarity (1980): As an E-type system evolves all associated with it, developers, sales personnel, users, for example, must maintain mastery of its content and behavior to achieve satisfactory evolution.
- The Law of Continuing Growth (1980): The functional content of E-type systems must be continually increased to maintain user satisfaction over their lifetime.
- The Law of Declining Quality (1996): The quality of E-type systems will appear to be declining unless they are rigorously maintained and adapted to operational environment changes.
- The Feedback System Law (1996): E-type evolution processes constitute multi-level, multi-loop, multi-agent feedback systems and must be treated as such to achieve significant improvement over any reasonable base.

Source: Lehman, M., et al, "Metrics and Laws of Software Evolution—The Nineties View," *Proceedings of the 4th International Software Metrics Symposium (METRICS '97)*, IEEE, 1997, can be downloaded from <http://www.ece.utexas.edu/~perry/work/papers/least1.pdf>

Software Metrics Symposium Metrics 2001 Proceedings

DP Hallahan



Software Metrics Symposium Metrics 2001 Proceedings:

Proceedings, Seventh International Software Metrics Symposium, 2001 Thirty papers presented at an April 2001 symposium report on measurement empirical studies and other quantitative and qualitative methods applied to software development management and quality assurance Some of the topics are a software cost estimation model based on categorical data the influence of team size and defect detection technique on inspection effectiveness information theory based measures of coupling and cohesion of a module and usage measurement for statistical web testing and reliability analysis Other topics include evaluating software degradation through entropy a feedback approach to validation of a GQM study the impact of design properties on development cost in object oriented systems and using simulation to evaluate prediction techniques No subject index c Book News Inc Proceedings, Seventh International Software Metrics Symposium, 2001 **Software Metrics** IEEE Computer Society, 2002 The latest incarnation of the conference on empirical software engineering and software quality attracted papers on project prediction measuring object oriented systems maintenance and evolution inspections web and network technology models and abstractions fault prediction and methodological *Seventh International Software Metrics Symposium*, 2002 *Artificial Intelligence Methods In Software Testing* Mark Last, Abraham Kandel, Horst Bunke, 2004-06-03 An inadequate infrastructure for software testing is causing major losses to the world economy The characteristics of software quality problems are quite similar to other tasks successfully tackled by artificial intelligence techniques The aims of this book are to present state of the art applications of artificial intelligence and data mining methods to quality assurance of complex software systems and to encourage further research in this important and challenging area Software Evolution and Feedback Nazim H. Madhavji, Juan Fernandez-Ramil, Dewayne Perry, 2006-08-30 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 covers conceptual phenomenological empirical technological and theoretical aspects of the field of software evolution with contributions from the leading experts This book delivers an up to date scientific understanding of what software evolution is to show why it is inevitable for real world applications and it demonstrates the role of feedback in software development and maintenance The book also addresses some of the phenomenological and technological underpinnings and includes rules and guidelines for increased software evolvability and in general sustainability of the evolution process Software Evolution and Feedback provides a long overdue scientific focus on software evolution and the role of feedback in the software process making this the indispensable guide for all software practitioners researchers and managers in the software industry

Intelligent Systems: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources, 2018-06-04 Ongoing advancements in modern technology have led to significant developments in intelligent systems With the numerous applications available it becomes imperative to conduct research and make further progress in this field Intelligent Systems Concepts Methodologies Tools and Applications contains a compendium of the latest academic material on the latest breakthroughs and recent progress in intelligent systems Including innovative studies on information retrieval artificial intelligence and software engineering this multi volume book is an ideal source for researchers professionals academics upper level students and practitioners interested in emerging perspectives in the field of intelligent systems

Software Evolution and Maintenance Priyadarshi Tripathy, Kshirasagar Naik, 2014-11-17 Provides students and engineers with the fundamental developments and common practices of software evolution and maintenance Software Evolution and Maintenance A Practitioner s Approach introduces readers to a set of well rounded educational materials covering the fundamental developments in software evolution and common maintenance practices in the industry Each chapter gives a clear understanding of a particular topic in software evolution and discusses the main ideas with detailed examples The authors first explain the basic concepts and then drill deeper into the important aspects of software evolution While designed as a text in an undergraduate course in software evolution and maintenance the book is also a great resource for software engineers information technology professionals and graduate students in software engineering Based on the IEEE SWEBOK Software Engineering Body of Knowledge Explains two maintenance standards IEEE EIA 1219 and ISO IEC14764 Discusses several commercial reverse and domain engineering toolkits Slides for instructors are available online Software Evolution and Maintenance A Practitioner s Approach equips readers with a solid understanding of the laws of software engineering evolution and maintenance models reengineering techniques legacy information systems impact analysis refactoring program comprehension and reuse

Handbook of Research on Web 2.0, 3.0, and X.0: Technologies, Business, and Social Applications Murugesan, San, 2009-11-30 This book provides a comprehensive reference source on next generation Web technologies and their applications Provided by publisher

Evaluation of Novel Approaches to Software Engineering Ernesto Damiani, George Spanoudakis, Leszek A. Maciaszek, 2020-02-08 This book constitutes selected revised and extended papers of the 14th International Conference on Evaluation of Novel Approaches to Software Engineering ENASE 2019 held in Heraklion Crete Greece in May 2019 The 19 revised full papers presented were carefully reviewed and selected from 102 submissions The papers included in this book contribute to the understanding of relevant trends of current research on novel approaches to software engineering for the development and maintenance of systems and applications specially with relation to model driven software engineering requirements engineering empirical software engineering service oriented software engineering business process management and engineering knowledge management and engineering reverse software engineering software process improvement software change and

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