Software reuse is an effective way to improve software productivity and quality. Software libraries are getting bigger, while most of them, such as those of object-oriented languages, use a simple but somewhat ineffective classification method. These libraries usually provide search aids for novices but experts. They are not flexible enough to serve users at

Title: SOCIAL ISSUES IN THE COLLECTION AND USE OF SOFTWARE METRIC DATA POSITION PAPER: METRICS: PROMISE VS. IMPLEMENTATION

Author(s): Drake, Janet M.
Corporate Source: Univ of Northern Iowa, Cedar Falls, IA, USA
Conference Title: Proceedings of the 1997 21st Annual International Computer Software & Applications Conference, COMPSAC'97 Conference Location: Washington, DC, USA Conference Date: 19970813-19970815
Publication Year: 1997
Abstract: Ten years ago claims where made that the collection and using software metric data would greatly improve the software development process and increase software quality. Today, after years of trying to establish metric programs, we have learned a great deal about the cultural and technical changes necessary to establish a metric program. The author's position is that social issues are the major difficulty in initiating a metric program. People fear reporting ‘numbers’ to management. The author believes that social difficulties can be overcome with education and successful use of metric data. (Author abstract) 4 Refs. In English EI Order Number: EIP97103899468
Keywords: Software engineering; Social aspects; Engineering education

Title: STUDY ON THE REQUIREMENTS REVIEW PROCESS IN SOFTWARE DEVELOPMENT: PROBLEMS AND SOLUTIONS

Author(s): Ow, Siew Hock; Yaacob, Mashkuri Hj.
Corporate Source: Univ of Malaya, Kuala Lumpur, Malays
Conference Title: Proceedings of the 1997 21st Annual International Computer Software & Applications Conference, COMPSAC'97 Conference Location: Washington, DC, USA Conference Date: 19970813-19970815
Publication Year: 1997
Abstract: Analyzes the outcomes of a study on the requirements review process. Fourteen organizations from both the government and commercial sectors were investigated through interviews and mail questionnaires. The aspects considered include the review team, review process, documents and tools used. The review problems and possible solutions are highlighted from the three aspects of software quality, i.e. people, process and technology. (Author abstract) 13 Refs. In English EI Order Number: EIP97103899460
Keywords: Software engineering; Computer software selection and evaluation; Quality assurance

Title: AGILE SOFTWARE PROCESS MODEL

Author(s): Aoyama, Mikio
Corporate Source: Niigata Inst of Technology, Kashiwazaki, Jpn
Conference Title: Proceedings of the 1997 21st Annual International Computer Software & Applications Conference, COMPSAC'97 Conference Location: Washington, DC, USA Conference Date: 19970813-19970815
Publication Year: 1997
Abstract: This article proposes a new software process model, ASP (Agile Software Process) based on a decade-long evolution of software process models inside a Japanese software factory. Japanese software factory was a successful model in the development of quality software for large-scale business applications in the 80s. However, the business climate of software development has been dramatically changed for last several years. Development cycle-time was promoted to one of the top issues of software development in the 90s. Globalization came into our life. A new paradigm of software development is required. The ASP model does not implicate any physical office but a virtual collaboration space over the Internet. It enables multiple small teams, geographically distributed, concurrently develop multiple functions for a family of large-scale software systems. (Author abstract) Refs. In English EI Order Number: EIP97103899444
Keywords: Software engineering; Wide area networks; Large scale systems

Title: USING A HIERARCHICAL THESAURUS FOR CLASSIFYING AND SEARCHING SOFTWARE LIBRARIES

Author(s): Liao, Hsian-Chou; Chen, Ming-Feng; Wang, Feng-Jian; Dai, Jian-Cheng
Corporate Source: Natl Chiao-Tung Univ, Hsinchu, Taiwan
Conference Title: Proceedings of the 1997 21st Annual International Computer Software & Applications Conference, COMPSAC'97 Conference Location: Washington, DC, USA Conference Date: 19970813-19970815
Publication Year: 1997
Abstract: Software reuse is an effective way to improve software productivity and quality. Software libraries are getting bigger, while most of them, such as those of object-oriented languages, use a simple but somewhat ineffective classification method. These libraries usually provide search aids for novices but experts. They are not flexible enough to serve users at