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Software Engineering Notes By Pressman
AnalySwift partners with Weber State, BYU, UAMMI and Hexcel for materials research, qualification and to extend VABS' capabilities to AAM blades.

U.S. Air Force funds effort to improve composite rotor blade design analysis capabilities for AAM
In this monthly feature, we'll keep you up-to-date on the latest career developments for individuals in the big data community. Whether it's a promotion, ...

Big Data Career Notes: July 2021 Edition
Kamala Subramaniam, a graduate of North Carolina State University, is the site lead for the Google engineering hub being created in Durham, Google disclosed Wednesday. And she notes that Google is loo ...

Google names NCSU grad as cloud engineering hub site lead in Durham
Northrop Grumman's $308 million contract to continue ICBM ground support has a potential value of $3.86 billion over 18 years, the company said on Monday.

Northrop Grumman nets $3.8B contract for Minuteman III support
A new standard proposed by Siemens Digital Industries Software is poised to tackle a significant challenge for electronics manufacturers: thermal management. Packing more performance and functionality ...

New electronics cooling standard simplifies exchange of simulation data
The little-known IGBT device helps trains, cars, and even lights operate more efficiently. And its market share is growing.

Ever Hear of an IGBT? It's One of the Most Power Efficient Devices Around
As Earth-bound small and large businesses convulse from wave after wave of cyberattacks, the fast-growing space industry is worried that it could be next.

Space industry worried that cyberattacks could spread off Earth
In an exclusive interview with Geektime, Ran Berenson, an Israeli executive at Intel, talks about the tough years experienced by the chip giant recently; reveals plans for the future; and explains why ...

Intel VP, GM of Core and Client: "We don't intend to let the down days continue"
Software engineers apply methods of engineering, including structure and design, to the process of developing software. They analyze the needs of clients and users and then plan how to structure ...

Online Bachelor's Degree in Software Engineering
If you're working from home - and with lockdown after lockdown, so many of us are - Creative Labs wants to ensure you have the best audio and video experience. The company has bundled three of its ...

Creative's work-from-home audio and visual kits hits the right notes
Plans for Ferris State University’s Center for Virtual Learning include new facilities for the School of Digital Media. Collaborative opportunities for Television and Digital Media Production, Digital ...

School of Digital Media Programs Look Fondly to Collaborative Efforts in Center for Virtual Learning
But business leaders call it overly burdensome. Some companies have started including pay information — one ad for an Amazon software engineering job "notes that the range for the position in Colorado ...

Living the dream, or forced retirement?
HX5, a Fort Walton Beach defense and space contractor, was hacked Wednesday by a Russian-associated ransomware gang.

FWB defense contractor HX5 reportedly hacked by Russian ransomware gang REvil
In an exclusive interview with Geektime, Ran Berenson, an Israeli executive at Intel, talks about the tough years experienced by the chip giant recently; reveals plans for the future; and explains why ...

Intel's highest ranking Israeli VP: "We don't intend to let the down days continue"
(“Bentley”), the infrastructure engineering software company, announced today the pricing of $500.0 million aggregate principal amount of convertible senior notes due 2027 (the “Notes”) in ...

Bentley Systems Announces Pricing of Convertible Senior Notes
Boston entrepreneur Ray Ozzie, who developed Lotus Notes, has raised $22 million for his latest startup, Blues Wireless. The company makes inexpensive gear to connect machine sensors to the cloud over ...

Ray Ozzie’s newest startup raises millions for 5G connectivity
(“Bentley”), the infrastructure engineering software company, today announced that it intends to offer $500.0 million aggregate principal amount of convertible senior notes due 2027 (the ...

Bentley Systems Announces Launch of Private Offering of Convertible Senior Notes
A new Stifel report notes that recent commentary from ... Autodesk Inc. (NASDAQ: ADSK) provides 3D design, engineering and entertainment software and services worldwide. Its AutoCAD Civil 3D ...

Corporate Software Demand Stays Red Hot: Stifel's 4 Focus Stock Picks
Software engineering encompasses the design and development of software using principles of computer science, mathematics and engineering. In addition to exploring the technical aspects of ...

Growing demands for the quality, safety, and security of software can only be satisfied by the rigorous application of formal methods during software design. This book methodically investigates the potential of first-order logic automated theorem provers for applications in software engineering. Illustrated by complete case studies on protocol verification, verification of security protocols, and logic-based software reuse, this book provides techniques for assessing the prover's capabilities and for selecting and developing an appropriate interface architecture.

Teaching the science and the technology of programming as a unified discipline that shows the deep relationships between programming paradigms. This innovative text presents computer programming as a unified discipline in a way that is both practical and scientifically sound. The book focuses on techniques of lasting value and explains them precisely in terms of a simple abstract machine. The book presents all major programming paradigms in a uniform framework that shows their deep relationships and how and where to use them together. After an introduction to programming concepts, the book presents both well-known and lesser-known computation models ("programming paradigms"). Each model has its own set of techniques and each is included on the basis of its usefulness in practice. The general models include declarative programming, declarative concurrency, message-passing concurrency, explicit state, object-oriented programming, shared-state concurrency, and relational programming. Specialized models include graphical user interface programming, distributed programming, and constraint programming. Each model is based on its kernel language—a simple core language that consists of a small number of programmer-significant elements. The kernel languages are introduced progressively, adding concepts one by one, thus showing the deep relationships between different models. The kernel languages are defined precisely in terms of a simple abstract machine. Because a wide variety of languages and programming paradigms can be modeled by a small set of closely related kernel languages, this approach allows programmer and student to grasp the underlying unity of programming. The book has many program fragments and exercises, all of which can be run on the Mozart Programming System, an Open Source software package that features an interactive incremental development environment.

For almost three decades, Roger Pressman's Software Engineering: A Practitioner's Approach has been the world's leading textbook in software engineering. The new eighth edition represents a major restructuring and update of previous editions, solidifying the book's position as the most comprehensive guide to this important subject. The eighth edition of Software Engineering: A Practitioner's Approach has been designed to consolidate and restructure the content introduced over the past two editions of the book. The chapter structure will return to a more linear presentation of software engineering topics with a direct emphasis on the major activities that are part of a generic software process. Content will focus on widely used software engineering methods and will de-emphasize or completely eliminate discussion of secondary methods, tools and techniques. The intent is to provide a more targeted, prescriptive, and focused approach, while attempting to maintain SEPA's reputation as a comprehensive guide to software engineering. The 39 chapters of the eighth edition are organized into five parts - Process, Modeling, Quality Management, Managing Software Projects, and Advanced Topics. The book has been revised and restructured to improve pedagogical flow and emphasize new and important software engineering processes and practices.

It is not an exaggeration to view Professor Lee's book," Software Engineer ing with Computational Intelligence," or SECI for short, as a pioneering contribution to software engineering. Breaking with the tradition of treat ing uncertainty, imprecision, fuzziness and vagueness as issues of peripheral importance, SECI moves them much closer to the center of the stage. It is ob vious, though still not widely accepted, that this is where these issues should be, since the real world is much too complex and much too ill-defined to lend itself to categorical analysis in the Cartesian spirit. As its title suggests, SECI employs the machineries of computational intel ligence (CI) and, more or less equivalently, soft computing (SC), to deal with the foundations and principal issues in software engineering. Basically, CI and SC are consortia of methodologies which collectively provide a body of con cepts and techniques for conception, design, construction and utilization of intelligent systems. The principal constituents of CI and SC are fuzzy logic, neurocomputing, evolutionary computing, probabilistic computing, chaotic computing and machine learning. The leitmotif of CI and SC is that, in general, better performance can be achieved by employing the constituent methodologies of CI and SC in combination rat her than in a stand-alone mode. In what follows, I will take the liberty of focusing my attention on fuzzy logic and fuzzy set theory, and on their roles in software engineering. But first, a couple of points of semantics which are in need of clarification.

This book constitutes the refereed proceedings of the 13th International Working Conference on Requirements Engineering: Foundation for Software Quality, REFSQ 2007, held in Trondheim, Norway. It covers goal-driven requirements engineering (RE), products and product-lines, value-based RE and the value of RE, requirements elicitation, requirements specification, industrial experience of RE, and requirements quality and quality requirements.

This book constitutes the refereed proceedings of the 7th International Conference on Product-Focused Software Process Improvement, PROFES 2006, held in Amsterdam, June 2006. The volume presents 26 revised full papers and 12 revised short papers together with 6 reports on workshops and tutorials. The papers constitute a balanced mix of academic and industrial aspects, organized in topical sections on decision support, embedded software and system development, measurement, process improvement, and more.

For courses in Software Engineering, Software Development, or Object-Oriented Design and Analysis at the Junior/Senior or Graduate level. This text can also be utilized in short technical courses or in short, intensive management courses. Shows students how to use both the principles of software engineering and the practices of various object-oriented tools, processes, and products. Using a step-by-step case study to illustrate the concepts and topics in each chapter, Bruegge and Dutoit emphasize learning object-oriented software engineer through practical experience: students can apply the techniques learned in class by implementing a real-world software project. The third edition addresses new trends, in particular agile project management (Chapter 14 Project Management) and agile methodologies (Chapter 16 Methodologies).

Drawing on best practices identified at the Software Quality Institute and embodied in bodies of knowledge from the Project Management Institute, the American Society of Quality, IEEE, and the Software Engineering Institute, Quality Software Project Management teaches 34 critical skills that allow any manager to minimize costs, risks, and time-to-market. Written by leading practitioners Robert T. Futrell, Donald F. Shafer, and Linda I. Shafer, it addresses the entire project lifecycle, covering process, project, and people. It contains extensive practical resources-including downloadable checklists, templates, and forms.

You might expect that a person invited to contribute a foreword to a book on the 1 subject of professionalism would himself be a professional of exemplary standing. I am gladdened by that thought, but also disquieted. The disquieting part of it is that if I am a professional, I must be a professional something, but what? As someone who has tried his best for the last thirty years to avoid doing anything twice, I lack one of the most important characteristics of a professional, the dedicated and persistent pursuit of a single direction. For the purposes of this foreword, it would be handy if I could think of myself as a professional abstractor. That would allow me to offer up a few useful abstractions about professionalism, patterns that might illuminate the essays that follow. I shall try to do this by proposing three successively more complex models of professionalism, ending up with one that is discomfortingly soft, but still, the best approximation I can make of what the word means to me. The first of these models I shall designate Model Zero. I intend a pejorative sense to this name, since the attitude represented by Model Zero is retrograde and offensive ... but nonetheless common. In this model, the word "professionalism" is a simple surrogate for compliant uniformity.

For courses in Software Engineering, Software Development, or Object-Oriented Design and Analysis at the Junior/Senior or Graduate level. This text can also be utilized in short technical courses or in short, intensive management courses. Object-Oriented Software Engineering Using UML, Patterns, and Java, 3e, shows readers how to use both the principles of software engineering and the practices of various object-oriented tools, processes, and products. Using a step-by-step case study to illustrate the concepts and topics in each chapter, Bruegge and Dutoit emphasize learning object-oriented software engineer through practical experience: readers can apply the techniques learned in class by implementing a real-world software project. The third edition addresses new trends, in particular agile project management (Chapter 14 Project Management) and agile methodologies (Chapter 16 Methodologies).