

Paul Weston

Bioinformatics Software Engineering

DELIVERING EFFECTIVE APPLICATIONS

 **WILEY**



Bioinformatics Software Engineering Delivering Effective Applications

**Jasni Mohamad Zain, Wan Maseri Wan
Mohd, Eyas El-Qawasmeh**



Bioinformatics Software Engineering Delivering Effective Applications:

Bioinformatics Software Engineering Paul Weston, 2005-09-01 Bioinformatics Software Engineering Delivering Effective Applications will be useful to anyone who wants to understand how successful software can be developed in a rapidly changing environment. A handbook not a textbook it is not tied to any particular operating system platform language or methodology. Instead it focuses on principles and practices that have been proven in the real world. It is pragmatic emphasizing the importance of what the author calls Adaptive Programming doing what works in your situation and it is concise covering the whole software development lifecycle in one slim volume. At each stage it describes common pitfalls explains how these can be avoided and suggests simple techniques which make it easier to deliver better solutions. Well thought out addresses many of the key issues facing developers of bioinformatics software. Simon Dear Director UK Technology and Development Bioinformatics Engineering and Integration Genetics Research GlaxoSmithKline. Here are some examples from the book itself. On software development Writing software properly involves talking to people often lots of people and plenty of non coding work on your part. It requires the ability to dream up new solutions to problems so complicated that they are hard to describe. From description to specification Look for verbs action words such as does is and views. Identify nouns naming words like user home and sequence. List the adjectives describing words for example quick simple or precise. The verbs are the functions that must be provided by your application. The nouns define the parameters to those functions and the adjectives specify the constraint conditions under which your program must operate. On how to start writing software Handle errors Take in data Show output Get going On testing It may not be physically possible to test every potential combination of situations that could occur as users interact with a program. But one thing that can be done is to test an application at the agreed extremes of its capability the maximum number of simultaneous users it has to support the minimum system configuration it must run on the lowest communication speed it must cope with and the most complex operations it must perform. If your program can cope with conditions at the edge of its performance envelope it is less likely to encounter difficulties in dealing with less challenging situations. On showing early versions of software to users It can be hard explaining the software development process to people who are unfamiliar with it. Code that to you is nearly finished is simply not working to them and seeing their dream in bits on the workbench can be disappointing to customers especially when they were expecting to be able to take it for a test drive. On bugs If your users find a genuinely reproducible bug in production code apologize fix it fast and then fix the system that allowed it through. And tell your customers what you are doing and why so they will be confident that it will not happen again. Everybody makes mistakes Don't make the same ones twice. And one last thought on successful software development You have to be a detective following up clues and examining evidence to discover what has gone wrong and why. And you have to be a politician under

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Bioinformatics Software Engineering Paul Weston, 2004-11-30 Bioinformatics Software Engineering Delivering Effective Applications will be useful

to anyone who wants to understand how successful software can be developed in a rapidly changing environment A handbook not a textbook it is not tied to any particular operating system platform language or methodology Instead it focuses on principles and practices that have been proven in the real world It is pragmatic emphasizing the importance of what the author calls Adaptive Programming doing what works in your situation and it is concise covering the whole software development lifecycle in one slim volume At each stage it describes common pitfalls explains how these can be avoided and suggests simple techniques which make it easier to deliver better solutions Well thought out addresses many of the key issues facing developers of bioinformatics software Simon Dear Director UK Technology and Development Bioinformatics Engineering and Integration Genetics Research GlaxoSmithKline Here are some examples from the book itself On software development Writing software properly involves talking to people often lots of people and plenty of non coding work on your part It requires the ability to dream up new solutions to problems so complicated that they are hard to describe From description to specification Look for verbs action words such as does is and views Identify nouns naming words like user home and sequence List the adjectives describing words for example quick simple or precise The verbs are the functions that must be provided by your application The nouns define the parameters to those functions and the adjectives specify the constraint conditions under which your program must operate On how to start writing software Handle errors Take in data Show output Get going On testing It may not be physically possible to test every potential combination of situations that could occur as users interact with a program But one thing that can be done is to test an application at the agreed extremes of its capability the maximum number of simultaneous users it has to support the minimum system configuration it must run on the lowest communication speed it must cope with and the most complex operations it must perform If your program can cope with conditions at the edge of its performance envelope it is less likely to encounter difficulties in dealing with less challenging situations On showing early versions of software to users It can be hard explaining the software development process to people who are unfamiliar with it Code that to you is nearly finished is simply not working to them and seeing their dream in bits on the workbench can be disappointing to customers especially when they were expecting to be able to take it for a test drive On bugs If your users find a genuinely reproducible bug in production code apologize fix it fast and then fix the system that allowed it through And tell your customers what you are doing and why so they will be confident that it will not happen again Everybody makes mistakes Don t make the same ones twice And one last thought on successful software development You have to be a detective following up clues and examining evidence to discover what has gone wrong and why And you have to be a politician understanding what people want both in public and in private and how this is likely to affect what you are trying to do This book cannot teach you how to do all of that but it can help

BIOS Instant Notes in Bioinformatics Charlie Hodgman, Andrew French, David Westhead, 2009-09-01 The second edition of Instant Notes in Bioinformatics introduced the readers to the themes and terminology of bioinformatics It is divided into three parts the

first being an introduction to bioinformatics in biology the second covering the physical mathematical statistical and computational basis of bioinformatics using biological examples wherever possible the third describing applications giving specific detail and including data standards The applications covered are sequence analysis and annotation transcriptomics proteomics metabolite study supramolecular organization systems biology and the integration of omic data physiology image analysis and text analysis

Antioxidant Polymers Giuseppe Cirillo,Francesca Iemma,2012-06-07 Antioxidant Polymers is an exhaustive overview of the recent developments in the field of polymeric materials showing antioxidant properties This research area has grown rapidly in the last decade because antioxidant polymers have wide industry applications ranging from materials science to biomedical pharmaceuticals and cosmetics

The Software Encyclopedia ,1986 **American Book Publishing Record** ,2005 **Computational Intelligence Applications for Software Engineering Problems** Parma Nand,Nitin Rakesh,Arun Prakash Agrawal,Vishal Jain,2023-02-10 This new volume explores the computational intelligence techniques necessary to carry out different software engineering tasks Software undergoes various stages before deployment such as requirements elicitation software designing software project planning software coding and software testing and maintenance Every stage is bundled with a number of tasks or activities to be performed Due to the large and complex nature of software these tasks can become costly and error prone This volume aims to help meet these challenges by presenting new research and practical applications in intelligent techniques in the field of software engineering

Computational Intelligence Applications for Software Engineering Problems discusses techniques and presents case studies to solve engineering challenges using machine learning deep learning fuzzy logic based computation statistical modeling invasive weed meta heuristic algorithms artificial intelligence the DevOps model time series forecasting models and more

Computational Intelligence Methods for Bioinformatics and Biostatistics Clelia DI Serio,Pietro Liò,Alessandro Nonis,Roberto Tagliaferri,2015-09-25 This book constitutes the thoroughly refereed post conference proceedings of the 11th International Meeting on Computational Intelligence Methods for Bioinformatics and Biostatistics CIBB 2014 held in Cambridge UK in June 2014 The 25 revised full papers presented were carefully reviewed and selected from 44 submissions The papers focus problems concerning computational techniques in bioinformatics systems biology medical informatics and biostatistics

The British National Bibliography Arthur James Wells,2004 *Software Engineering and Computer Systems, Part I* Jasni Mohamad Zain,Wan Maseri Wan Mohd,Eyas El-Qawasmeh,2011-06-28 This Three Volume Set constitutes the refereed proceedings of the Second International Conference on Software Engineering and Computer Systems ICSECS 2011 held in Kuantan Malaysia in June 2011 The 190 revised full papers presented together with invited papers in the three volumes were carefully reviewed and selected from numerous submissions The papers are organized in topical sections on software engineering network bioinformatics and e health biometrics technologies Web engineering neural network parallel and distributed e learning ontology image processing information and data management engineering

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hoc networks social networks software process modeling miscellaneous topics in software engineering and computer systems

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