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*IEEE Computer
Society Real-World
Software
Engineering
Problems* IGI Global
In the Guide to the

Software
Engineering Body of
Knowledge
(SWEBOK(R) Guide),
the IEEE Computer
Society establishes
a baseline for the
body of knowledge
for the field of
software
engineering, and
the work supports
the Society's
responsibility to

promote the advancement of both theory and practice in this field. It should be noted that the Guide does not purport to define the body of knowledge but rather to serve as a compendium and guide to the knowledge that has been developing and evolving over the past four decades. Now in Version 3.0, the Guide's 15 knowledge areas summarize generally accepted topics and list references for detailed information. The editors for Version 3.0 of the SWEBOK(R) Guide are Pierre Bourque

(Ecole de technologie superieure (ETS), Universite du Quebec) and Richard E. (Dick) Fairley (Software and Systems Engineering Associates (S2EA)). Issues in Computer Programming: 2013 Edition Springer Nature Dark Silicon and the Future of On-chip Systems, Volume 110, the latest release in the Advances in Computers series published since 1960, presents detailed coverage of innovations in computer hardware, software, theory, design and applications, with this release focusing on an Introduction to dark silicon and future processors, a Revisiting of processor allocation and application mapping

in future CMPs in the dark silicon era, Multi-objectivism in the dark silicon age, Dark silicon aware resource management for many-core systems, Dynamic power management for dark silicon multi-core processors, Topology specialization for networks-on-chip in the dark silicon era, and Emerging SRAM-based FPGA architectures. Provides in-depth surveys and tutorials on new computer technology Covers well-known authors and researchers in the field Presents extensive bibliographies with most chapters Includes volumes that are devoted to single themes or subfields of computer science, with this release focusing on Dark Silicon and Future On-chip Systems

Dark Silicon and Future On-chip Systems Springer Science & Business Media
Since its first volume in 1960, *Advances in Computers* has presented detailed coverage of innovations in computer hardware, software, theory, design, and applications. It has also provided contributors with a medium in which they can explore their subjects in greater depth and breadth than journal articles usually allow. As a result, many articles have become standard references that continue to be of significant, lasting value in this rapidly expanding field. In-depth surveys and tutorials on new computer technology Well-known authors and researchers in the field Extensive bibliographies with most chapters Many of the volumes are devoted to single themes or subfields of computer science
[Autonomic Computing and Networking](#)
Scholarly Editions
AI and Cloud Computing, Volume 120 in the *Advances in Computers*

series, highlights new advances in the field, with this updated volume presenting interesting chapters on topics including A Deep-forest based Approach for Detecting Fraudulent Online Transaction, Design of Cyber-Physical-Social Systems with Forensic-awareness Based on Deep Learning, Review on Privacy-preserving Data Comparison Protocols in Cloud Computing, Fingerprint Liveness Detection Using an Improved CNN with the Spatial Pyramid Pooling Structure, Protecting Personal Sensitive Data Security in the Cloud with Blockchain, and more. Provides the authority and expertise of leading contributors from an international board of authors Presents the latest

release in the Advances in Computers series Includes the latest information on AI and Cloud Computing Your Computer Is on Fire Academic Press

This title provides an easily accessible yet detailed discussion of IEEE Std 754-1985, arguably the most important standard in the computer industry. The result of an unprecedented cooperation between academic computer scientists and the cutting edge of industry, it is supported by virtually every modern computer. Other topics include the floating point architecture of the Intel microprocessors and a discussion of programming language support for the standard.

Advances in Computers IGI Global

This handbook introduces the basic principles and

fundamentals of cyber security towards establishing an understanding of how to protect computers from hackers and adversaries. The highly informative subject matter of this handbook, includes various concepts, models, and terminologies along with examples and illustrations to demonstrate substantial technical details of the field. It motivates the readers to exercise better protection and defense mechanisms to deal with attackers and mitigate the situation. This handbook also outlines some of the exciting areas of future research where the existing approaches can be implemented. Exponential increase in the use of computers as a

means of storing and retrieving security-intensive information, requires placement of adequate security measures to safeguard the entire computing and communication scenario. With the advent of Internet and its underlying technologies, information security aspects are becoming a prime concern towards protecting the networks and the cyber ecosystem from variety of threats, which is illustrated in this handbook. This handbook primarily targets professionals in security, privacy and trust to use and improve the reliability of businesses in a distributed manner, as well as computer scientists and software developers, who are

seeking to carry out research and develop software in information and cyber security.

Researchers and advanced-level students in computer science will also benefit from this reference.

ScholarlyEditions

This book offers a collection of high-quality research papers presented at the 2nd International Conference on Sensor Networks and Signal Processing (SNSP 2019), held in Taiwan on November 19–22, 2019. It presents novel contributions in the areas of sensor and actuator networks, wireless networks, networking and protocols, security and privacy, wireless communications, distributed algorithms, Internet of Things, system modeling

and performance analysis, fault tolerance/diagnostics, information management, data mining and analysis, embedded systems design, signal theory, signal and image processing, detection and estimation, spectral analysis, software developments, pattern recognition, data processing, remote sensing, big data, machine learning, information and coding theory, and industrial applications.

Energy Efficiency in Data Centers and Clouds Springer Science & Business Media

Your Computer Is on Fire MIT Press

Proceedings of the 2017 ACM/SIGDA International Symposium on Field-Programmable Gate Arrays

Academic Press

"This book is a vital compendium of chapters on the latest research within

the field of distributed computing, capturing trends in the design and development of Internet and distributed computing systems that leverage autonomic principles and techniques"--Provided by publisher.

AI and Cloud Computing

Academic Press

Advances in Computers, Volume 116, presents innovations in computer hardware, software, theory, design, and applications, with this updated volume including new chapters on Teaching Graduate

Students How to Review Research Articles and How to Respond to Reviewer Comments, ALGATOR - An Automatic Algorithm Evaluation System, Graph Grammar Induction, Asymmetric Windows in Digital Signal Processing, Intelligent Agents in Games: Review With an

Open-Source Tool, Using Clickstream Data to Enhance Reverse Engineering of Web Applications, and more.

Contains novel subject matter that is relevant to computer science Includes the expertise of contributing authors Presents an easy to comprehend writing style Advances in Computers IGI Global

The implementation of cloud technologies in healthcare is paving the way to more effective patient care and management for medical professionals around the world. As more facilities start to integrate cloud computing into their healthcare systems, it is imperative to examine the emergent trends and innovations in the field. Cloud Computing Systems and Applications in Healthcare features

innovative research on the impact that cloud technology has on patient care, disease management, and the efficiency of various medical systems.

Highlighting the challenges and difficulties in implementing cloud technology into the healthcare field, this publication is a critical reference source for academicians, technology designers, engineers, professionals, analysts, and graduate students.

Software Technology

Academic Press

Issues in Computer Science and Theory / 2011 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Computer Science and Theory. The editors have built Issues in Computer Science and Theory: 2011 Edition on the vast information databases of ScholarlyNews.™ You can

expect the information about Computer Science and Theory in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in Computer Science and Theory: 2011 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility.

More information is available at <http://www.ScholarlyEditions.com/>.

Advances in Computers

MIT Press

Since its first volume in 1960, Advances in Computers has presented detailed coverage of innovations in computer

hardware, software, theory, design, and applications. It has also provided contributors with a medium in which they can explore their subjects in greater depth and breadth than journal articles usually allow. As a result, many articles have become standard references that continue to be of significant, lasting value in this rapidly expanding field. In-depth surveys and tutorials on new computer technology

Well-known authors and researchers in the field

Extensive bibliographies with most chapters

Many of the volumes are devoted to single themes or subfields of computer science

Green and Sustainable Computing: John Wiley & Sons

Advances in Computers, Volume 126 presents innovations in computer hardware, software, theory, design and applications, with

this updated volume including new chapters on VLSI for Super-Computing: Creativity in R+D from Applications and Algorithms to Masks and Chips, Bulk Bitwise Execution Model in Memory: Mechanisms, Implementation, and Evaluation, Embracing the Laws of Physics: Three Reversible Models of Computation, WSNs in Environmental Monitoring: Data Acquisition and Dissemination Aspects, Energy efficient implementation of tensor operations using dataflow paradigm for machine learning, and A Run-Time Job Scheduling Algorithm for Cluster Architectures with DataFlow Accelerators.

Contains novel subject matter that is relevant to computer science

Includes the expertise of contributing authors

Presents an easy to comprehend writing style

Advances in Computers

Academic Press

Key problems for the

IEEE Computer Society Certified Software Development Professional (CSDP) Certification Program IEEE Computer Society Real-World Software Engineering Problems helps prepare software engineering professionals for the IEEE Computer Society Certified Software Development Professional (CSDP) Certification Program. The book offers workable, real-world sample problems with solutions to help readers solve common problems. In addition to its role as the definitive preparation guide for the IEEE Computer Society Certified Software Development Professional (CSDP) Certification Program, this resource also serves as an appropriate guide for graduate-level courses in software engineering or for professionals interested in sharpening or refreshing their skills. The book includes a comprehensive collection of sample problems, each of which includes the problem's statement, the solution, an explanation, and references. Topics covered include: *

- Engineering economics *
- Test *
- Ethics *
- Maintenance *
- Professional practice *
- Software configuration *
- Standards *
- Quality assurance *
- Requirements *
- Metrics *
- Software design *
- Tools and methods *
- Coding *
- SQA and V & V IEEE Computer Society Real-World Software Engineering Problems

offers an invaluable guide to preparing for the IEEE Computer Society Certified Software Development Professional (CSDP) Certification Program for software professionals, as well as providing students with a practical resource for coursework or general study.

Dataflow Processing

John Wiley & Sons
Advances in Computers carries on a tradition of excellence, presenting detailed coverage of innovations in computer hardware, software, theory, design, and applications. The book provides contributors with a medium in which they can explore their subjects in greater depth and breadth than journal articles typically allow.

The articles included in this book will become standard references, with lasting value in this rapidly expanding field. Presents detailed coverage of recent innovations in computer hardware, software, theory, design, and applications Includes in-depth surveys and tutorials on new computer technology pertaining to computing: combinatorial testing, constraint-based testing, and black-box testing Written by well-known authors and researchers in the field Includes extensive bibliographies with most chapters Presents volumes devoted to single themes or subfields of computer science
Advances in Digital Government Elsevier
This book constitutes the

thoroughly refereed post-conference proceedings of the first International Symposium on Intelligent Informatics (ISI'12) held in Chennai, India during August 4-5, 2012. The 54 revised papers presented were carefully reviewed and selected from 165 initial submissions. The papers are organized in topical sections on data mining, clustering and intelligent information systems, multi agent systems, pattern recognition, signal and image processing and, computer networks and distributed systems. The book is directed to the researchers and scientists engaged in various fields of intelligent informatics.

*Computer Literature
Bibliography: 1964-1967*
Springer Science &

Business Media

Since its first volume in 1960, *Advances in Computers* has presented detailed coverage of innovations in computer hardware, software, theory, design, and applications. It has also provided contributors with a medium in which they can explore their subjects in greater depth and breadth than journal articles usually allow. As a result, many articles have become standard references that continue to be of significant, lasting value in this rapidly expanding field. In-depth surveys and tutorials on new computer technology Well-known authors and researchers in the field Extensive bibliographies with most chapters Many of the volumes are devoted to single themes or subfields of computer science

18th IEEE Computer

*Security Foundations
Workshop Academic
Press*

The term computation gap has been defined as the difference between the computational power demanded by the application domain and the computational power of the underlying computer platform.

Traditionally, closing the computation gap has been one of the major and fundamental tasks of computer architects.

However, as technology advances and computers become more pervasive in the society, the domain of computer architecture has been extended. The scope of research in the computer architecture is no longer restricted to the computer hardware and organization issues. A

wide spectrum of topics ranging from algorithm design to power management is becoming part of the computer architecture. Based on the aforementioned trend and to reflect recent research efforts, attempts were made to select a collection of articles that covers different aspects of contemporary computer architecture design. This volume of the *Advances in Computers* contains six chapters on different aspects of computer architecture. Key features:

- Wide range of research topics
- Coverage of new topics such as power management, Network on Chip, Load balancing in distributed systems, and pervasive computing
- Simple writing style
- Wide range of research topics

Coverage of new topics such as power management, Network on Chip, Load balancing in distributed systems, and pervasive computing

Simple writing style

Handbook of Computer Networks and Cyber Security Springer Nature

Advances In Digital Government presents a collection of in-depth articles that addresses a representative cross-section of the matrix of issues involved in implementing digital government systems. These articles constitute a survey of both the technical and policy dimensions related to the design, planning and deployment of digital government systems. The research and development projects within the technical dimension represent a wide range of

governmental functions, including the provisioning of health and human services, management of energy information, multi-agency integration, and criminal justice applications. The technical issues dealt with in these projects include database and ontology integration, distributed architectures, scalability, and security and privacy. The human factors research emphasizes compliance with access standards for the disabled and the policy articles contain both conceptual models for developing digital government systems as well as real management experiences and results in deploying them. Advances In Digital Government presents digital government issues from the perspectives of different communities and societies. This geographic and social

diversity illuminates a unique array of policy and social perspectives, exposing practitioners to new and useful ways of thinking about digital government.