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The IEEE Computer Society is proud to announce our new publishing partnership with John Wiley & Sons, Inc. Beginning this Fall, all IEEE Computer Society Press authored books will be promoted and distributed by our partner, John Wiley & Sons, Inc. Wiley will also partner with CS Press to produce a number of exciting new titles. IEEE Computer Society members will receive a 15% discount on these titles when purchased through Wiley or at Wiley.com.
Software Management, Sixth Edition; Donald J. Reinert; Foreword by Barry Boehm; This sixth edition of Donald Reinert’s popular, best selling tutorial summarizes what software project managers need to be successful. The text provides pointers to the current issues, challenges and experiences that shape their jobs. It explores recent advances in such dissimilar fields as management theory, distance education, knowledge management, motivation theory, process improvement, organization dynamics, and technology transfer. This book contains fourteen original articles by leaders in the field specifically written for this sixth edition, as well as a collection of reprints. About 40 percent of the material in this edition has been produced specifically for this volume. Only about half of the papers from the previous edition appear in this revision. 610 pages, May 2002, ISBN 0-7695-1100-7, Catalog # BP00874, $53.75 Members / $60.00

Software Engineering, Volume 2: The Supporting Processes, 2/e; Richard H. Thayer and Mark J. Christensen; This second volume on software engineering processes includes reprinted and newly authored papers that describe the supporting life cycle processes in a manner that can prepare individuals to take the IEEE Computer Society Certified Software Development Professional (CSDP) exam. This second edition updates the material in the first edition of Software Engineering, 1996, with two comprehensive volumes containing specially selected and newly authored papers that sufficiently cover the process of software engineering. Volume 1, the development process, covers the activities and tasks of the developer including requirements analysis, design, coding, testing, and integration, and acceptance related to software products. This new tutorial’s chapters cover seven development processes: systems requirements analysis and design, software requirements analysis and design, software architectural design, implementation (coding), and testing plus maintenance. 534 pages, March 2002, ISBN 0-7695-1555-X, Catalog # BP01555, $51.00 Members / $60.00

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Software Engineering, Volume 1: The Development Process, 2/e; Richard H. Thayer and Martin Dorfman; The goal of this new text is to resolve the problem of software engineer’s identity crisis by providing a considerable and useful proportion of software engineering technical knowledge and presents a framework of guidelines on how to apply it to changing situations. This second edition updates the material in the first edition of Software Engineering, 1996, with two comprehensive volumes containing specially selected and newly authored papers that sufficiently cover the process of software engineering. Volume 1, the development process, covers the activities and tasks of the developer including requirements analysis, design, coding, testing, and integration, and acceptance related to software products. This new tutorial’s chapters cover seven development processes: systems requirements analysis and design, software requirements analysis and design, software architectural design, implementation (coding), and testing plus maintenance. 534 pages, March 2002, ISBN 0-7695-1555-X, Catalog # BP01555, $51.00 Members / $60.00

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Software Process Improvement; Robin B. Hunter and Richard H. Thayer; This text is a collection of original and republished papers providing a significant survey on the use of SPI and software process assessment (SPA) as practiced by companies such as Lockheed Martin, Siemens, and Hewlett Packard. Among the important features of the book are chapters on software process evaluation, how to best perform SPI, ISO 9000 and TickIT-an alternative approach to SPA, as well as the latest information in the CMMI integration project. The text also provides vivid descriptions on the most important international and national standards for SPI, in particular ISO 9001, ISO 9000-3, ISO/IEC 9126, ISO/IEC 15004, ISO/IEC 12207. 622 pages, November 2001, ISBN 0-7695-0699-1, Catalog # BP00999, $51.00 Members / $60.00

Software Reuse: A Standards-Based Guide; Carmen Marquina; This book provides specific instructions for implementing reuse within the context of the IEEE Software Reuse Process Standard 1517 as well as the IEEE/USA Standard 12207 - Standard for Information Technology - Software Life Cycle Processes. This new guide aids the reader in interpreting the meaning of the standard, implementing the standard, and applying the standard. Like IEEE Std 1517, this book is written for both managers and technical personnel involved in acquiring, supplying, or developing software applications and systems or reusable assets. 254 pages, June 2001, ISBN 0-7695-0704-X, Catalog # BP00704, $44.75 Members / $55.00

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Software Safety and Reliability; Techniques, Approaches, and Standards of Key Industrial Sectors; Debra S. Herrmann; This original text introduces the concepts, techniques, and approaches used to achieve and assess software safety and reliability. Debra Herrmann presents a cross-section of current safety and reliability standards that cross multiple industrial sectors while focusing on the additional required activities to achieve software safety and reliability. In organizing this text, she has three objectives. The book is written for engineers, scientists, managers, regulators, and policy makers involved in the design, development, acquisition, and certification of safety-critical systems. Contents: Approaches Promoted by Key Industrial Sectors to Software Safety and Reliability: Approaches Promoted by Non-Industry Specific Software Safety and Reliability Standards; Observations and Conclusions. 506 pages, 2000, ISBN 0-7695-0299-7, Catalog # BP00299, $46.75 Members / $55.00

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Digital Systems Design with VHDL and Synthesis; An Integrated Approach; K. C. Chang: This book presents an integrated approach to digital design principles, processes, and implementations to help the reader design much more complex systems within a shorter design cycle. This is accomplished by introducing digital design concepts, VHDL coding, VHDL simulation, synthesis commands, and strategies together. The author focuses on the ultimate product of the design cycle: the implementation of a digital design. VHDL coding, synthesis methodologies and verification techniques are presented as tools to support the final design implementation. 516 pages, 1999, ISBN 0-7695-0203-4, Catalog # BP00203, $45.00 Members / $46.75.

The following Reports and Proceedings will continue to be distributed and sold through the IEEE Computer Society and IEEE special guides / reports

Guide to the Software Engineering Body of Knowledge SWEBOK; This book provides a guide to the body of knowledge that exists in the literature that has accumulated over the past thirty years. The purpose of this guide is to provide the bounds of the software engineering discipline and to access and identify the body of knowledge that supports the discipline. The text subdivides the body of knowledge into ten knowledge areas (KA) that define the various concepts in a way that allows the reader to find their way quickly to the subject of interest. Once a subject is found, readers are referred to key papers or chapters presenting that knowledge. 228 pages, December 2001, ISBN 0-7695-1000-0, Catalog # CS01000, $34.00 Members / $55.00.

Computing Curricula 2001: Computer Science; The Joint Task Force on Computing Curricula; This text represents the final report of the Computing Curricula 2001 project (CC2001)–a joint undertaking of the IEEE Computer Society (IEEE-CS) and the Association for Computing Machinery (ACM) to develop curricular guidelines for undergraduate programs in computing. This volume of the report outlines a set of recommendations for undergraduate programs in computer science. The goal of the CC2001 effort is to revise Computing Curricula 1991 so that it incorporates the developments of the past decade. 243 pages, April 2002, ISBN 0-985-1499-6, Catalog # CS01499, $32.00 Members / $40.00.

IEEE Software Engineering Standards Collection 1999 Edition; 4-Volume Set; Developed with direct input from software engineering professionals around the world, the 1999 IEEE Software Engineering Standards Collection is now UPDATED and STRUCTURED. It fully integrates 39 of the most current IEEE software engineering standards into four industry-relevant volumes that follow the real world convention of software engineering projects. Using resources to perform processes that produce products for customers. 4-Volume Set, 2,852 pages, April 1999, ISBN 1-56032-154-3, Catalog # ST070110, $280.00 Members / $325.00.

1149.1-2001 Test Access Port and Boundary-Scan Architecture (IEEE): Circuitry that may be built into an integrated circuit to assist in the test, maintenance, and support of assembled printed circuit boards is defined. The circuitry includes a standard interface through which instructions and test data are communicated. A set of test features is defined, including a boundary-scan register, such that the component is able to respond to a minimum set of instructions designed to assist with testing of assembled printed circuit board. 212 pages, 2001, ISBN 0-7381-2994-5, Catalog # ST071120, $79.00 Members / $98.00.

The IEEE Computer Society Press annually publishes a wide range of over 185 computer science and engineering conference records in multiple formats. You can get access to hardcopy books, CD-ROMs, and over 1,000 online proceedings.

software

10th Anniversary IEEE Joint International Conference on Requirements Engineering (RE 2002); Requirements engineering is the branch of systems engineering concerned with the real-world goals for, functions of, and constraints on software-intensive systems. It is also concerned with how these factors are taken into account during the implementation and maintenance of the system, from software specifications and architectures up to real test cases. RE 2002 delves into goals in RE, RE process, validation, component reuse, RE and design, RE-visions, RE for product lines, requirements selection, change management, RE process, and application challenges. 376 pages / 49 papers, September 2002, ISBN 0-7695-1465-0, Catalog # PR01465, $85.00 Members / $164.00.

2002 International Conference on Software Maintenance (ICSM 2002); Maintaining Distributed Heterogeneous Systems; ICSM is the major international conference in the field of software and systems maintenance, evolution, and management. This year’s theme elaborates on last year’s theme of “Systems and software evolution in the era of the Internet.” ICSM 2002 addresses new scenarios and the major challenges on maintenance and evolution. The focus of the conference is also on the new challenges that heterogeneous systems pose for software maintenance, and the new opportunities for researchers and practitioners. 700 pages / 70 papers, October 2002, ISBN 0-7695-1819-2, Catalog # PR011819, $82.00 Members / $203.00.
8th IEEE International Software Metrics Symposium (METRICS 2002): The Software Metrics Symposium is one of the main conferences in software engineering focusing on the research and practice of software measurement, and the use of data to understand, evaluate and model software engineering phenomena. The 2002 conference focuses on the evaluation and improvement of software quality and productivity, with an emphasis on the application of measurement in software projects for decision making. 372 pages / 23 papers, June 2002, ISBN 0-7695-1339-5, Catalog # PR01703, $57.00 Members / $141.00

8th Annual Eurographics UK Conference (EGUK 2002): This year the conference themes are art and design, and technology. EGUK 2002 focuses on next generation web design and e-commerce, digital arts, computer animation and games, web-based learning and design for interactive TV and 3D phone systems, virtual heritage and conservation, 3D/2D displays and holographic presentations, 3D/2D image creation and processing, and next generation HCI. 180 pages / 21 papers, June 2002, ISBN 0-7695-1518-5, Catalog # PR01751, $58.00 Members / $143.00

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1st International Symposium on 3D Data Processing Visualization and Transmission (3DPVT 2002): The activity of a growing number of researchers from fields such as computer vision, computer graphics, image processing, bioinformatics, and statistics is merging into a new discipline centered around 3D data processing and visualization. 3DPVT 2002 establishes a program where academic and industrial researchers can find and discuss well-established topics, as well as issues and applications of growing importance. 886 pages / 131 papers, June 2002, ISBN 0-7695-1521-6, Catalog # PR01751, $90.00 Members / $235.00

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8th International Conference on Information Visualization (IV 2002) w/ CD-ROM: Information visualization is a key tool to extract useful information and knowledge from overloaded information systems. It uses visualization techniques that are based on the effective merge of computer graphics tools and human perceptual abilities that are being applied in many intriguing and unorthodox applications in the variety of disciplines. The IV 2002 proceedings highlights the multidimensional spectrum of activities in the information visualization. 824 pages / 120 papers, CD-ROM, July 2002, ISBN 0-7695-1656-4, Catalog # PR01695, $87.00 Members / $217.00

2002 IEEE Symposium on Information Visualization (InfoVis 2002): The IEEE Symposium on Information Visualization is the premier meeting in the emerging field of information visualization. The proceedings focuses on the visual presentation of and interaction with abstract information spaces and structures to facilitate their rapid assimilation and understanding. 200 pages / 15 papers, October 2002, ISBN 0-7695-1751-X, Catalog # PR01751, $58.00 Members / $143.00

1st International Symposium on 3D Data Processing Visualization and Transmission (3DPVT 2002)

8th EUROMICRO Conference 2002: EuroMICRO 2002 includes three conference tracks (Component-Based Software Engineering, Multimedia and Telecommunications, Software Process and Product Improvement) while covering a wide area of innovative developments in a variety of key computer disciplines. It presents paramount yet technically deep in-sight into leading edge achievements that, intentionally or not, are interrelated in the pursuit of academic or industrial project efforts. 416 pages / 52 papers, Sept. 2002, ISBN 0-7695-1787-0, Catalog # PR01705, $68.00 Members / $199.00

Also available:
10th International Workshop on Program Comprehension (WPMC 2002)

1st International Workshop on Visualizing Software for Understanding and Analysis (VISSOFT 2002): VISSOFT 2002 gathers software visualization researchers from all over the world to present state-of-the-art research in software visualization. Its goal is to promote collaboration and interaction among researchers by providing an interesting range of software visualization related topics. 134 pages / 12 papers, June 2002, ISBN 0-7695-1662-9, Catalog # PR01662, $54.00 Members / $135.00

1st International Symposium on 3D Data Processing Visualization and Transmission (3DPVT 2002)

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2002 IEEE International Conference on Artificial Intelligence Systems (AIS 2002): The main topics covered in the AIS 2002 proceedings include the following areas of artificial intelligence systems: AI architectures, applications, applied soft computing, automated modeling, CAE/CAD tools and systems, case-based reasoning, computer-aided education, concurrent design, data mining, distributed AI, expert systems, intelligent databases, neural networks, simulation, and virtual reality. 400 pages / 97 papers, September 2002, ISBN 0-7695-1733-1, Catalog # PR01733, $71.00 Members / $177.00.

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2002 IEEE International Conference on Knowledge Informatics (ICCI 2002): Cognitive informatics research focuses on the internal information processing mechanisms of the human brain, which will become the foundation of next generation IT and AI technologies, such as neural computers, bio-computers, quantum information processing, and more powerful IT systems. Cognitive informatics is a cutting-edge and profound interdisciplinary research area that tackles the common root problems of modern informatics, computation, software engineering, AI, cognitive science, and life sciences. ICCI 2002 focuses on the natural information processing mechanisms and cognitive processes of the brain. 382 pages / 43 papers, August 2002, ISBN 0-7695-1724-2, Catalog # PR01724, $65.00 Members / $160.00.

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6th International Symposium on Human-Centric Computing Languages and Environments (HCC 2002): This is the second conference in the HCC series whose goal is to broaden and redefine the focus of the venerable Visual Languages series begun way back in 1994. This year there are three Independent yet Coordinated Symposia (ICSs): Visual / Multimedia Programming and Software Engineering; Empirical Studies of Programmers; and End-User and Domain-Specific Programming. 280 pages / 17 papers, September 2002, ISBN 0-7695-1644-0, Catalog # PR01644, $60.00 Members / $150.00.

11th International Workshops on Enabling Technologies (WET-ICE 2002): Infrastructure for Collaborative Enterprises; This year’s proceedings of WET-ICE 2002 includes three workshops: Enterprise Security, Web-based Infrastructures and Coordination Architectures for Collaborative Enterprises, and Evaluating Collaborative Enterprises. Thirty-eight papers were submitted to the conference of which twenty-three full papers and four short papers were accepted for publication. 210 pages / 27 papers, September 2002, ISBN 0-7695-1700-X, Catalog # PR01700, $58.00 Members / $144.00.

2002 IEEE Workshop on Geometric Modeling and Processing (GMP 2002): Theory and Applications; GMP is a biennial international conference series on the theory and application of solid modeling, shape representation, and geometric computation. The papers cover most major areas of geometric modeling and processing such as curve and surface modeling, triangular mesh modeling, and subdivision surfaces. They also include applications of geometric modeling such as computer-aided design and reverse engineering. 252 pages / 25 papers, July 2002, ISBN 0-7695-1747-2, Catalog # PR01747, $60.00 Members / $149.00.

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Over the last 10 years, the scope of the Workshop has been expanded to cover fabrication technology and memory design, test and reliability. Process technology and its impact on memory designs are featured more prominently in this year’s workshop proceedings. Sixteen papers, August 2002, ISBN 0-7695-1715-3, Catalog # PR01715, $55.00 Members / $111.00.

The focus of EH 2002 is evolvable hardware/software co-design, circuit design, system validation, and design automation. 410 pages / 43 papers, September 2002, ISBN 0-7695-1910-7, Catalog # PR01803, $68.00 Members / $116.00.

There is now a blurring of lines between P2P, grids, and clusters in a convergence toward a common set of protocols and presence within the same computing environments. P2P 2002 expands the scope of topics to include research vectors that reflect this convergence. The original focus remains the use of computers at the edge of networks (last peers) and the technology this requires. 134 pages / 17 papers, August 2002, ISBN 0-7695-1810-9, Catalog # PR01810, $57.00 Members / $141.00.

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The potential of the Web as a vehicle for offering a variety of services is becoming more apparent as Web sites evolve their contents from static information to more dynamic and interactive forms. A number of new standards and commercial products are emerging, offering a basis for developing Web-based services from dynamic composable resources, extending both the range and scope of services that can be made available through the Web. This workshop proceedings presents exciting new research and empirical results from members of the Web design, software engineering, and information technology communities discussing techniques for migrating to Web services. 112 pages / 14 papers, October 2002, ISBN 0-7695-1904-4, Catalog # PR01804, $54.00 Members / $143.00.

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4th International Workshop on Web Site Evolution (WSE 2002)

The 7th European Test Workshop (ETW 2002) is the seventh version of the annual technical forum where recent results and innovative ideas in the area of electronic-based circuit and system testing are presented. This year the proceedings looks into defect based testing, verification, BIST and TMR, delay testing, system test and debug, test data converters, and power continuous testing. 145 pages / 23 papers, June 2002, ISBN 0-7695-1689-0, Catalog # PR01693, $64.00 Members / $110.00.

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4th IEEE International Workshop on Web Site Evolution (WSE 2002); The potential of the Web as a vehicle for offering a variety of services is becoming more apparent as Web sites evolve their contents from static information to more dynamic and interactive forms. A number of new standards and commercial products are emerging, offering a basis for developing Web-based services from dynamic composable resources, extending both the range and scope of services that can be made available through the Web. This workshop proceedings presents exciting new research and empirical results from members of the Web design, software engineering, and information technology communities discussing techniques for migrating to Web services. 112 pages / 14 papers, October 2002, ISBN 0-7695-1904-4, Catalog # PR01804, $54.00 Members / $143.00.

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4th IEEE International Workshop on Mobile Computing Systems and Applications (WMCSA 2002); WMCSA 2002 is the latest in a series of high-quality, interactive forums for discussion on all aspects of this important research area, which reaches closer to our everyday lives through advances in mobile and embedded devices, networks and software techniques. The book explores location and security, implementing mobility, aggregation and routing, data in context, and adaptation. 162 pages / 14 papers, ISBN 0-7695-1647-4, June 2002, Catalog # PR01647, $56.00 Members / $138.00.
high-performance computing

11th International Conference on High Performance Distributed Computing (HPDC-11 2002); HPDC 2002 includes an outstanding program covering a broad range of research topics including data grids, application frameworks, grid resource management, communication and RPC protocols, parallel applications, and grid job submission and scheduling. 442 pages / 42 pages, CD-ROM, July 2002, ISBN 0-7695-1746-5, Catalog # PR01746, $69.00 Members / $81.00

10th Annual International Symposium on High Performance Computing Systems and Applications (HPCS 2002); The papers in HPCS 2002 span the wide spectrum of this interdisciplinary field. It covers single as well as multiple processor architectures, networks and grids, nonnumerical algorithms, computation models, numerical parallel algorithms, scheduling and performance, evaluation, and applications. 328 pages / 40 pages, June 2002, ISBN 0-7695-1626-2, Catalog # PR 01626, $84.00 Members / $118.00

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database systems

14th International Conference on Scientific and Statistical Database Management (SSDBM 2002); This book contains all of the material prepared for SSDBM 2002 and as such represents a valuable compendium of current database research and challenges in scientific and statistical database applications. The conference has two priority themes, Data Mining and Statistical Metadata, which are reflected in the proceedings along with other papers addressing noteworthy research issues in scientific databases.

252 pages / 24 pages, July 2002, ISBN 0-7695-1632-7, Catalog # PR01632, $60.00 Members / $149.00

12th International Workshop on Database and Expert Systems Applications (DEXA 2002); DEXA is a platform for the exchange of ideas, experiences, and opinions among those who are defining requirements for future systems in the areas of database and artificial intelligence. DEXA 2002 includes thirteen workshops that present papers covering very specialized topics on applications of database and expert systems technology. 922 pages / 140 pages, September 2002, ISBN 0-7695-1668-6, Catalog # PR01668, $32.00 Members / $529.00
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13th IEEE International Conference on Application-Specific Systems, Architectures, and Processors (ASAP 2002); Through the years, the scope of the research presented at the conferences has evolved to encompass new trends and results in various areas of application-specific computing. ASAP 2002’s program includes a rich set of topics that address design methodologies, low-power design, computer arithmetic, memory organization, media processors, cryptography, VLSI architectures, and application-specific system design. 416 pages / 36 pages, July 2002, ISBN 0-7695-1712-9, Catalog # PR01713, $88.00 Members / $116.00

2902 International Workshop on Innovative Architecture (IWiA 2002); Innovative Architecture for Future Generation High-Performane Processors and Systems; A variety of topics in the areas of computer architecture, compilers, applications, and high-performance computing are explored in IWiA 2002. The workshop’s special topics this year are low-power design and network processing. 128 pages / 12 pages, August 2002, ISBN 0-7695-1835-1, Catalog # PR01835, $54.00 Members / $135.00

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