



IEEE
COMPUTER
SOCIETY

IEEE Computer Society Publications

Peer-reviewed magazines and journals
featuring trusted content on all aspects
of computer science and engineering



Download a FREE article!
www.computer.org/publications/free-article

IEEE COMPUTER SOCIETY

Call for Papers

Write for the IEEE
Computer Society's
authoritative
computing
publications
and conferences.

GET PUBLISHED
computer.org/cfp



IEEE
COMPUTER
SOCIETY



IEEE



IEEE COMPUTER SOCIETY PUBLICATIONS

The IEEE Computer Society's publications deliver insights from the best and brightest minds in computing on a range of topics.

Our rigorously peer-reviewed magazines and journals showcase the latest research, breakthrough discoveries, and practical applications of technology for both industry and academia.

Whether you are an IT professional, a computer science researcher, a software developer, a computer history buff, or a tech enthusiast, we have the publication for you.

Discover Membership

IEEE Computer Society membership provides opportunities for collaboration and engagement at all stages of your career. Access cutting-edge resources for professional development, like our digital library, certification programs, and career center.



Our members are actively advancing the practice of computer science and information technology. Start enjoying your member benefits today!

JOIN US: computer.org/membership

- » Discounts on all of our sponsored publications and conferences
- » A digital subscription to *Computer* magazine
- » And so much more!

CONTENTS

Publications are grouped by interest areas



ALL OF COMPUTING

Computer

IEEE Transactions on Computers

IEEE Open Journal of the Computer Society

IEEE Annals of the History of Computing



ARTIFICIAL INTELLIGENCE

IEEE Intelligent Systems

*IEEE Transactions on Pattern Analysis
and Machine Intelligence*



BIOTECHNOLOGY

*IEEE Transactions on Computational Biology
and Bioinformatics*



COMPUTER HARDWARE

IEEE Micro

IEEE Computer Architecture Letters



EMERGING TOPICS IN COMPUTING

IEEE Transactions on Emerging Topics in Computing



GRAPHICS AND MULTIMEDIA

IEEE Computer Graphics and Applications

IEEE MultiMedia

*IEEE Transactions on Visualization
and Computer Graphics*

23

HUMAN-CENTERED COMPUTING

IEEE Transactions on Affective Computing

24

IT AND SECURITY

IT Professional

IEEE Security & Privacy

IEEE Transactions on Privacy

IEEE Transactions on Dependable and Secure Computing

30

MOBILE COMPUTING

IEEE Pervasive Computing

IEEE Transactions on Mobile Computing

33

NETWORKING AND DATA TECHNOLOGY

IEEE Transactions on Big Data

IEEE Internet Computing

IEEE Transactions on Cloud Computing

IEEE Transactions on Knowledge and Data Engineering

IEEE Transactions on Services Computing

IEEE Transactions on Parallel and Distributed Systems

40

SCIENTIFIC COMPUTING

Computing in Science & Engineering

42

SOFTWARE


IEEE Software

IEEE Transactions on Software Engineering

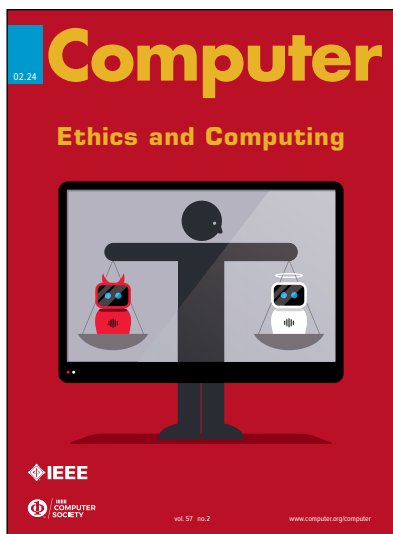
45

SUSTAINABLE COMPUTING

IEEE Transactions on Sustainable Computing



Computer



Computer, the flagship publication of the IEEE Computer Society, publishes peer-reviewed articles written for and by computer researchers and practitioners representing the full spectrum of computing and information technology, from hardware to software, and from emerging research to new applications.

Computer aims to provide more technical substance than trade magazines and more practical ideas than research journals. The magazine seeks to deliver useful information

for all computing professionals and students, including computer scientists, engineers, and practitioners of all levels.

Computer's special issues are essential for providing timely coverage of emerging areas in computing research and technology.

The editorial board cultivates and solicits special-issue proposals from senior researchers and recognized experts, and all proposals are submitted to the board for evaluation.



www.computer.org/computer

“Computer is the essential computing periodical that helps members gain an enlightened perspective on key social, technical, and strategic challenges we face at all levels working in this field.”

—JEFFREY VOAS, EDITOR IN CHIEF



RECENT SPECIAL ISSUE TOPICS

- » Intelligent Autonomous Systems
- » Artificial Intelligence in Government
- » Blockchain and Cyberphysical Systems
- » Cybersecurity for the Smart Grid
- » Complexity vs. Trust
- » Data Analysis and Cyberphysical Systems
- » Digital Health: E-coaching and Remote Monitoring
- » Outlook



AWARDS

Fifty Years of Networking (October 2019) received an honorable mention for the 2020 Folio: Eddie Award.

The Future of AI (September 2018) received an honorable mention for the 2019 Folio: Digital Award.

Publication
frequency
Monthly

Published
since
1967

Impact
factor (2023)
2.0

COMPUTERS

IEEE Transactions on Computers (TC) is a monthly publication with a wide distribution to researchers, developers, technical managers, and educators in the computing field. In addition to full papers, brief contributions are also published.

JOURNAL TOPICS

- » Computer organizations and architectures
- » Operating systems, software systems, and cloud computing
- » Digital devices, computer components, and interconnection networks
- » Specification, design, prototyping, and testing methods and tools
- » Performance, fault tolerance, reliability, security, and testability
- » Real-time, mobile, and embedded systems
- » Case studies and experimental and theoretical evaluations
- » New and important applications and trends: computing issues for emerging technologies and applications; machine learning; and approximate, quantum, neuromorphic, and analog computing

Publication
frequency
Monthly

Published
since
1968

Impact
factor (2023)
3.6



www.computer.org/tc

IEEE Open Journal of the Computer Society

IEEE Open Journal of the Computer Society (OJ-CS) is a rigorously peer-reviewed forum for rapid publication of open-access articles describing high-impact results in all areas of interest to the IEEE Computer Society. All content is available without charge to users and their institutions.

The IEEE Computer Society invites you to be among the first to publish your article in this new 100% open-access journal. This is an exciting opportunity for your research to benefit from the high visibility and interest the journal's launch will generate.

Open access is provided through an article processing charge (APC) that is paid after acceptance. APCs are often financed by an author's institution or other funder. Authors from low-income countries are eligible for waived or reduced APCs.

JOURNAL TOPICS

OJ-CS publishes articles on the latest emerging topics and trends in all aspects of computing, including

- » Theory
- » Design
- » Practice
- » Applications

Continuous
publication

Published
since
2020

Impact
Factor (2023)
5.7



www.computer.org/oj

IEEE Annals of the History of Computing



From the analytical engine to the supercomputer, from Pascal to von Neumann, from punch cards to CD-ROMs—*IEEE Annals of the History of Computing (Annals)* covers the breadth of computer history.

Featuring scholarly articles by leading computer scientists and historians, as well as firsthand accounts by computer pioneers, *Annals* is the primary publication for recording, analyzing, and debating the history of computing. It also serves as a focal point for people interested in uncovering and preserving the records of this exciting field. The publication is

an active center for the collection and dissemination of information on historical projects and organizations, oral history activities, and international conferences.

Annals serves as a record of vital contributions that recount, preserve, and analyze the history of computing and the impact of computing on society. Where possible, first-hand accounts of events and activities are recorded with minimal editorial changes, and scholarly reports of analyses of the historical record from archives and personal contacts are published to better understand both the past and the future of the computing field.



www.computer.org/annals

“ IEEE Annals of the History of Computing *helps us understand the impact of computing by exploring all aspects of its history through scholarly analyses, first-hand accounts, and more.* ”

—TROY ASTARTE, EDITOR IN CHIEF

Publication
frequency
Quarterly

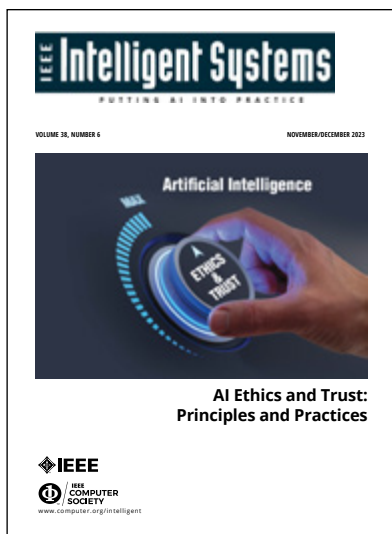
Published
since
1979



RECENT SPECIAL ISSUE TOPICS

- » Interface Architects: The Evolution of Human-Computer Interaction
- » Computing Capitalisms
- » Queens of Code

IEEE Intelligent Systems



IEEE Intelligent Systems (IS) features peer-reviewed, cutting-edge articles on the theory and applications of systems that perceive, reason, learn, and act intelligently.

Serving software engineers, systems designers, information managers, knowledge engineers, researchers, and professionals who are interested in intelligent systems and artificial intelligence, *IEEE Intelligent Systems* emphasizes current practice and experience

along with promising new ideas that will drive innovation in such fields as finance, manufacturing, medicine, defense, and the sciences.

IEEE Intelligent Systems also includes application features covering practice at one or more companies or laboratories, tutorials, surveys, and case studies.

Technical cosponsors: Association for the Advancement of Artificial Intelligence (AAAI); BCS, the Chartered Institute for IT; European Coordinating Committee for Artificial Intelligence (ECCAI)



www.computer.org/intelligent



RECENT SPECIAL ISSUE TOPICS

- » Recommender Systems
- » Federated Learning
- » AI & FinTech

MAGAZINE TOPICS

- » Knowledge-based systems
- » Intelligent software agents
- » Natural-language processing
- » Knowledge-management technologies
- » Machine learning
- » Data mining
- » Adaptive and intelligent robotics
- » Knowledge-intensive processing on the web
- » Social issues relevant to intelligent systems

Publication
frequency
Bimonthly

Published
since
1988

Impact
factor (2023)
5.6

IEEE TRANSACTIONS ON

PATTERN ANALYSIS AND MACHINE INTELLIGENCE

IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI) publishes articles on all traditional areas of computer vision and image understanding, pattern analysis and recognition, and areas of machine intelligence with an emphasis on machine learning for pattern analysis.

TPAMI's editorial board strives to present the most important research results in areas within the journal's scope.

JOURNAL TOPICS

- » Techniques for visual search
- » Document and handwriting analysis
- » Video and image sequence analysis
- » Content-based retrieval of image and video
- » Face and gesture recognition
- » Relevant specialized hardware/software architectures

“TPAMI is a flagship journal leading the field of artificial intelligence. It serves as a platform to share the latest ideas and technologies in computer vision and machine learning both in academia and industry.”

—KYOUNG MU LEE, EDITOR IN CHIEF

www.computer.org/tpami



Publication
frequency
Monthly

Published
since
1979

Impact
factor (2023)
20.8

IEEE TRANSACTIONS ON

COMPUTATIONAL BIOLOGY AND BIOINFORMATICS

IEEE Transactions on Computational Biology and Bioinformatics (TCBB) publishes archival research results related to the algorithmic, mathematical, statistical, and computational methods that are central in bioinformatics and computational biology.

The journal also emphasizes the development and testing of effective computer programs in bioinformatics; the development of biological databases; important biological results that are obtained from the use of these methods, programs, and databases; and the field of systems biology.

Technical cosponsors: IEEE Control Systems Society; IEEE Engineering in Medicine and Biology Society

JOURNAL TOPICS

- » Sequence analysis
- » Comparison and alignment methods
- » Motif, gene, and signal recognition
- » Molecular evolution
- » DNA twisting and folding
- » Computational problems in genetics
- » Gene expression and gene regulatory networks

Publication
frequency
Bimonthly

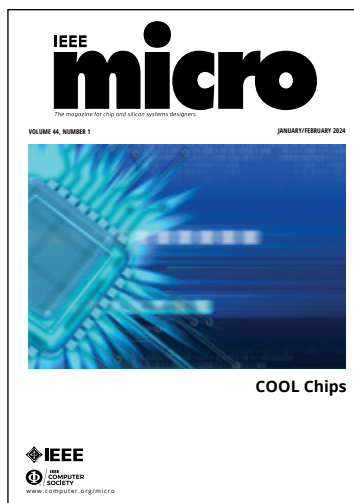
Published
since
2004

Impact factor
(2023)
3.6



www.computer.org/tcbb

IEEE micro



IEEE Micro reaches an international audience of microcomputer and microprocessor designers, system integrators, and users.

The magazine addresses users and designers of microprocessors and microprocessor systems, including managers, engineers, consultants, educators, and students involved with computers and peripherals, components and subassemblies, communications, instrumentation and control equipment, and guidance systems. Contributions relate to the design, performance, or application of microprocessors and microcomputers. Tutorials, review papers, and discussions are also welcome.

Publication
frequency
Bimonthly

Published
since
1981

Impact
factor (2023)
2.8



www.computer.org/micro

“IEEE Micro stands as a pivotal forefront venue in pioneering the transformation of modern computing. The magazine introduces cutting-edge innovations across interdisciplinary domains, including computer architecture, software optimization, emerging workload analysis, and semiconductor technology, for both academia and industry practitioners.”

—HSIEN-HSIN SEAN LEE, EDITOR IN CHIEF

MAGAZINE TOPICS

- » Architecture
- » Communications
- » Data acquisition
- » Control
- » Hardware and software design/implementation
- » Algorithms (including program listings)
- » Digital signal processing
- » Microprocessor support hardware
- » Operating systems
- » Computer-aided design
- » Languages
- » Application software
- » Development systems



RECENT SPECIAL ISSUE TOPICS

- » Machine Learning for Systems
- » Agile and Open-Source Hardware
- » Top Picks from the 2019 Computer Architecture Conferences
- » Hot Chips

IEEE

COMPUTER
ARCHITECTURE

LETTERS

IEEE Computer Architecture Letters (CAL) is a rigorously peer-reviewed forum for the fast publication of new, high-quality ideas in the form of short, critically refereed technical papers. Submissions are accepted on a continuing basis and letters are published shortly after acceptance.

JOURNAL TOPICS

- » Microprocessor and multiprocessor systems
- » Microarchitecture and ILP processors
- » Performance evaluation and simulation techniques
- » Interactions with compilers and operating systems
- » Memory and cache systems
- » Power and thermal issues at the architectural level
- » I/O architecture and techniques
- » Domain-specific processor architecture
- » High-availability architecture
- » Reconfigurable computer architecture

“*In facing today's fast-changing computing world, CAL features short papers that bring you fresh, innovative ideas speedily. The editorial board works very hard to ensure fast publication, and we are excited to see many works in CAL spearhead new research directions.*”

—CHIA-LIN YANG, EDITOR IN CHIEF



www.computer.org/cal

Published
since
2002

Impact
factor (2023)
1.4

EMERGING TOPICS IN COMPUTING

IEEE TRANSACTIONS ON

EMERGING TOPICS IN COMPUTING

IEEE Transactions on Emerging Topics in Computing (TETC) publishes papers on emerging aspects of computer science, computing technology, and computing applications not currently covered by other IEEE Computer Society transactions.

JOURNAL TOPICS

- » IT for green
- » Synthetic and organic computing structures and systems
- » Advanced analytics
- » Social/occupational computing
- » Location-based/client computer systems
- » Morphic computer design
- » Electronic game systems
- » Healthcare IT

“*TETC is one of the highest reputed and valued transactions for finding and publishing impactful papers and special sections/issues covering emerging topics of computing in the IEEE Computer Society’s fields of interest.*”

—PAOLO MONTUSCHI,
EDITOR IN CHIEF

www.computer.org/tetc



Publication
frequency
Quarterly

Published
since
2013

Impact
factor (2023)
5.1

IEEE Computer Graphics AND APPLICATIONS



IEEE Computer Graphics and Applications (CG&A) bridges the theory and practice of computer graphics.

From specific algorithms to full system implementations, *CG&A* offers a unique combination of peer-reviewed feature articles and informal departments. A cover story focuses on creative applications of the technology by an artist or designer.

Published six times a year, *CG&A* is indispensable reading for people working at the leading edge of computer graphics technology and its applications in everything from business to the arts.

Publication
frequency
Bimonthly

Published
since
1981



www.computer.org/cga

“ IEEE Computer Graphics and Applications *uniquely combines leading-edge technical papers with sometimes-provocative opinion articles. Together, they explore the various applications of computer graphics in our lives—including entertainment, industry, culture, society, and health—from academic and practitioner perspectives.* ”

—ANDRÉ STORK, EDITOR IN CHIEF

MAGAZINE TOPICS

- » Modeling
- » Rendering
- » Animation
- » Information and scientific visualization
- » HCI/user interfaces
- » Novel applications
- » Hardware architectures
- » Haptics
- » Virtual- and augmented-reality systems



RECENT SPECIAL ISSUE TOPICS

- » Data Physicalization
- » Art and Cultural Heritage
- » Visualization in Public Spaces

IEEE MultiMedia



IEEE MultiMedia (MM) serves the community of scholars, developers, practitioners, and students who are interested in a range of media types and work in fields such as image and video processing, audio analysis, text retrieval, and data fusion.

Appealing to generalists and specialists alike, *IEEE MultiMedia* is read by those working in industry, business, the arts, and academia. The magazine includes peer-reviewed articles, editorial comments, and conference and standards reports. Articles discuss research and advanced practice in multimedia

hardware, software, systems, and their applications, spanning theory to working systems.

The primary goal of *IEEE MultiMedia* is to provide a forum for researchers and practitioners to present new findings and discuss experiences with multimedia systems and applications, including technical trends and research directions.

Publication
frequency
Quarterly

Published
since
1994

Impact
factor (2023)
2.3



RECENT SPECIAL ISSUE TOPICS

- » Urban Multimedia Computing
- » Multimedia Data Annotation and Privacy
- » AR/VR for Interactive Multimedia

MAGAZINE TOPICS

- » Hardware and software for media compression, coding, and processing
- » Media representations and standards for storage, editing, interchange, transmission, and presentation
- » Hardware platforms for multimedia applications
- » Operating systems suitable for multimedia applications
- » Storage devices and technologies for multimedia information
- » Synchronization issues
- » Multimedia databases
- » Network technologies, protocols, architectures, and delivery techniques intended for multimedia
- » Formalisms for multimedia information systems and applications
- » Programming paradigms and languages for multimedia
- » Multimedia user interfaces
- » Media creation integration editing and management
- » Creation and modification of multimedia applications



www.computer.org/multimedia

IEEE TRANSACTIONS ON

VISUALIZATION AND COMPUTER GRAPHICS

IEEE Transactions on Visualization and Computer Graphics (TVCG) publishes papers on subjects related to computer graphics, information and scientific visualization, visual analytics, and virtual and augmented reality, focusing on theory, algorithms, methodologies, human-computer interaction techniques, systems, software, hardware, and applications in these areas.

JOURNAL TOPICS

- » Rendering technologies
- » Geometric modeling and processing
- » Shape analysis
- » Graphics hardware
- » Animation and simulation
- » Perception, interaction, and user interfaces
- » High-dynamic-range imaging and display
- » User studies and evaluation
- » Biomedical and volume visualization and graphics
- » Haptics
- » Computational photography
- » Visual analytics for machine learning
- » Topology-based visualization
- » Visual programming and software visualization
- » Visualization in data science
- » Virtual, augmented, and mixed reality
- » Advanced display technology

Publication
frequency
Monthly

Published
since
1995

Impact
factor (2023)
4.7



www.computer.org/tvcg

IEEE TRANSACTIONS ON

AFFECTIVE COMPUTING

IEEE Transactions on Affective Computing (TAC) is a cross-disciplinary and international archive journal aimed at disseminating research results on the design of systems that can recognize, interpret, and simulate human emotions and related affective phenomena.

The journal publishes original research on the principles and theories explaining why and how affective factors condition interaction between humans and technology, on how affective sensing and simulation techniques can inform our understanding of human affective processes, and on the design, implementation, and evaluation of systems that carefully consider affect among the factors that influence their usability. Surveys of existing work are considered for publication when they propose a new viewpoint on the history and the perspective on this domain.

JOURNAL TOPICS

- » Sensing and analysis
- » (Cyber) psychology and behavior
- » Behavior generation and user interaction

Financial cosponsors: IEEE Systems, Man and Cybernetics Society; IEEE Computational Intelligence Society

Technical cosponsors: IEEE Robotics and Automation Society; IEEE Signal Processing Society; IEEE Society on Social Implications of Technology; IEEE Consumer Electronics Society; IEEE Circuits and Systems Society

Publication
frequency
Quarterly

Published
since
2010

Impact
factor (2023)
9.6



www.computer.org/tac

IT Professional



IT Professional (IT Pro) publishes peer-reviewed articles, columns, and departments written for and by IT practitioners and researchers covering practical aspects of emerging and leading-edge digital technologies, original ideas and guidance for IT applications, and novel IT solutions for the enterprise.

IT Professional's goal is to inform the broad spectrum of IT executives, IT project managers, IT researchers, and IT application developers from industry, government, and academia.

MAGAZINE TOPICS

- » Emerging technologies
- » Web services
- » Internet security
- » Data management
- » Wireless networks
- » Enterprise architectures and infrastructures
- » Software development
- » Systems integration



www.computer.org/itpro

“With developments in AI, cloud computing, cybersecurity, XR, and IoT paving the way to a new era of highly integrated cyber and physical worlds, IT Professional magazine is a trusted source of information if you are looking to advance your knowledge, take a next step in your career, or stay up to date on the latest developments and trends in IT.”

—CHARALAMPOS Z. PATRIKAKIS,
EDITOR IN CHIEF

Publication
frequency
Bimonthly



RECENT SPECIAL ISSUE TOPICS

- » Resilience and Reliability
- » Artificial Intelligence (AI) in Agriculture
- » Digital Deception: Cyber Fraud and Online Misinformation
- » Envisioning Our Future Digital World

Published
since
1999

Impact
factor (2023)
2.2

IEEE

SECURITY & PRIVACY



IEEE Security & Privacy (S&P) communicates advances in security, privacy, and dependability in a way that is useful to a broad section of the professional community.

The magazine publishes articles with both a practical and a research bent by the top thinkers in the field of security and privacy, along with case studies, tutorials, columns, and in-depth interviews.

Financial cosponsor: IEEE Reliability Society

Technical cosponsors: IEEE Engineering in Medicine & Biology Society; IEEE Signal Processing Society

Publication
frequency
Bimonthly

Published
since
2003



www.computer.org/security

“IEEE Security & Privacy aims to provide world-class content at the leading edge of research and practice in information technology security and privacy in order to meet the professional needs of a diverse readership.”

—SEAN PEISERT, EDITOR IN CHIEF

MAGAZINE TOPICS

- » Internet, software, hardware, and systems security
- » Legal and ethical issues and privacy concerns
- » Privacy-enhancing technologies
- » Data analytics for security and privacy
- » Usable security
- » Integrated security design methods
- » Security of critical infrastructures
- » Pedagogical and curricular issues in security education
- » Security issues in wireless and mobile networks
- » Real-world cryptography
- » Emerging technologies, operational resilience, and edge computing
- » Cybercrime and forensics

AWARDS



GDPR: One Year In (November/December 2019) won the 2020 Apex Award of Excellence and received an honorable mention for the 2020 Folio: Eddie Award.



AI Ethics (May/June 2018) won the 2019 Folio: Eddie Award.

IEEE TRANSACTIONS ON

PRIVACY

IEEE Transactions on Privacy (TP) provides a multidisciplinary forum for theoretical, methodological, engineering, and application aspects of privacy and data protection, including specification, design, implementation, testing, and validation. Privacy, in this context, is defined as the freedom from unauthorized intrusion in its broadest sense, arising from any activity in information collection, information processing, information dissemination or invasion.

“*I want to see IEEE Transactions on Privacy expand the range of technologies that support greater privacy while ensuring the benefits people obtain from computing continue to expand.*”

—CHRISTOPHER W. CLIFTON,
EDITOR IN CHIEF

100%
Open Access

Published
since
2024



www.computer.org/tp

JOURNAL TOPICS

- » Data protection specification, design, implementation, testing, and validation
- » Information collection, processing, and dissemination
- » Significant advances in theoretical models
- » Engineering tools
- » Design frameworks
- » Languages
- » Architectures
- » Infrastructures
- » Model-based approaches
- » Study cases
- » Standards

IEEE TRANSACTIONS ON

DEPENDABLE AND SECURE COMPUTING

IEEE Transactions on Dependable and Secure Computing (TDSC) publishes archival research results focusing on research into foundations, methodologies, and mechanisms that support the achievement of systems and networks that are dependable and secure to the desired degree without compromising performance.

The journal's focus also includes measurement, modeling, and simulation techniques, and foundations for jointly evaluating, verifying, and designing for performance, security, and dependability constraints.

JOURNAL TOPICS

- » Design for dependability and security
- » Evaluation
- » Application-specific areas
- » Software design
- » New technologies (problems and opportunities)

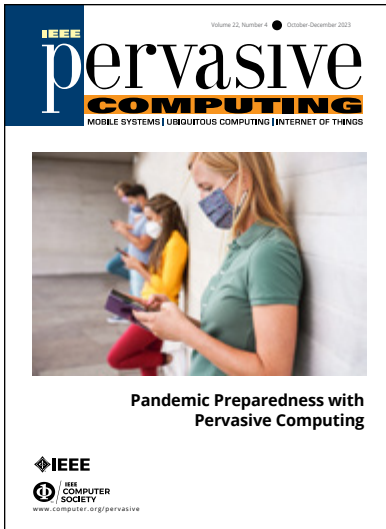
Publication
frequency
Bimonthly

Published
since
2004

Impact
factor (2023)
7.0



www.computer.org/tdsc



IEEE Pervasive Computing (PvC) explores the role of computing in the physical world, as characterized by visions such as the Internet of Things and ubiquitous computing.

Designed for researchers, practitioners, and educators, this publication acts as a catalyst for realizing the ideas described by Mark Weiser in 1988.

The essence of this vision is the creation of environments saturated with sensing, computing, and wireless communication that gracefully support the needs of individuals and society. Many key building

blocks for this vision are now viable commercial technologies: wearable and handheld computers, wireless networking, location sensing, Internet of Things platforms, and so on.

However, the vision continues to present deep challenges for experts in areas such as hardware design, sensor networks, mobile systems, human-computer interaction, industrial design, machine learning, data science, and societal issues such as privacy and ethics.



www.computer.org/pervasive

“IEEE Pervasive Computing examines breakthroughs and critical enablers that fundamentally change how we experience computing in our everyday lives. Quarterly issues combine powerful insights from original research with studies of potential and measured impact from world-leading experts and practitioners to help readers stay at the cutting edge.”

—FAHIM KAWSAR, EDITOR IN CHIEF

MAGAZINE TOPICS

- » Assisted living
- » Automotive systems
- » Cognitive assistance
- » Hardware innovations
- » Manufacturing
- » Retail
- » Smart cities
- » Sustainability



RECENT SPECIAL ISSUE TOPICS

- » Pervasive Computing at the Edge
- » Personalized Pervasive Health
- » Attention—Yours vs. Theirs
- » Growing Up with Pervasive Computing

Publication
frequency
Quarterly

Published
since
2002

IEEE Transactions on Mobile Computing (TMC) focuses on the key technical issues related to architectures, support services, algorithm/protocol design and analysis, mobile environments, mobile communication systems, applications, and emerging technologies.

JOURNAL TOPICS

- » Architectures
- » Support services
- » Algorithm/protocol design and analysis
- » Mobile environments
- » Mobile communication systems
- » Applications
- » Emerging technologies

Publication
frequency
Monthly

Published
since
2002

Impact
factor (2023)
7.7

“IEEE Transactions on Mobile Computing plays a fundamental role in emerging 6G technologies, where the harmonic synergy between computing and mobile communication lies at the core of 6G evolution.”

—SHUGUANG (ROBERT) CUI,
EDITOR IN CHIEF

www.computer.org/tmc



IEEE TRANSACTIONS ON

BIG DATA

IEEE Transactions on Big Data (TBD) publishes peer-reviewed articles with big data as the main focus. Articles provide cross-disciplinary, innovative research ideas and applications results for big data, including novel theory, algorithms, and applications.

JOURNAL TOPICS

- » Analytics
- » Visualization
- » Curation and management
- » Semantics
- » Infrastructure
- » Standards
- » Performance analyses
- » Intelligence and scientific discovery from big data
- » Security, privacy, and legal issues
- » Applications in the fields of endeavor where massive data is generated

Financial cosponsors: IEEE Communications Society; IEEE Computational Intelligence Society; IEEE Sensors Council; IEEE Signal Processing Society; IEEE Systems, Man, and Cybernetics Society; IEEE Systems Council; IEEE Vehicular Technology Society

Technical cosponsors: IEEE Biometrics Council; IEEE Consumer Technology Society; IEEE Control Systems Society; IEEE Engineering in Medicine & Biology Society; IEEE Photonics Society; IEEE Power & Energy Society

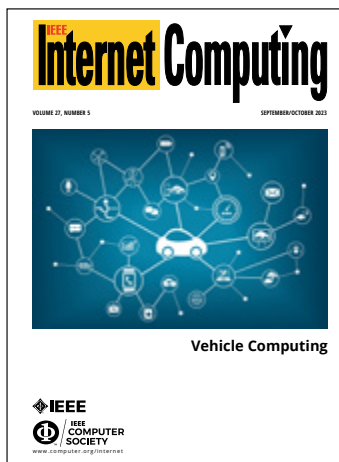
Published
since
2015

Impact
factor (2023)
7.5



www.computer.org/tbd

IEEE Internet Computing



IEEE Internet Computing (IC) provides journal-quality evaluation and review of emerging and maturing Internet technologies and applications.

Targeting the technical and scientific Internet user communities as well as designers and developers of Internet-based applications and enabling technologies, *IEEE Internet Computing* publishes refereed articles on the latest developments and key trends in Internet technologies and applications. Relevant to both academic researchers and software professionals, it presents novel content on a wide range of topics.

MAGAZINE TOPICS

- » Applications
- » Architectures
- » Big data
- » Cloud and edge computing
- » Information management
- » Middleware
- » Security and privacy
- » Standards



www.computer.org/internet

“As one of the first magazines dedicated to Internet Technologies since 1997, IEEE Internet Computing welcomes submissions of articles on the latest developments and key trends in Internet technologies and applications.”

—WEISONG SHI, EDITOR IN CHIEF

Publication
frequency
Bimonthly

Published
since
1997

Impact
Factor (2023)
3.7



RECENT SPECIAL ISSUE TOPICS

- » Digital Trust: Trust Management in Cyberspace
- » Internet of Bodies/ Internet of Sports
- » 6G Vision
- » Connected Health

IEEE TRANSACTIONS ON

CLOUD COMPUTING

IEEE Transactions on Cloud Computing (TCC) is dedicated to the multidisciplinary field of cloud computing. It is committed to the publication of articles that present innovative research ideas, application results, and case studies in cloud computing, focusing on key technical issues related to theory, algorithms, systems, applications, and performance.

Financial cosponsors: IEEE Communications Society; IEEE Power and Energy Society; IEEE Systems Council

Technical cosponsors: IEEE Consumer Technology Society; IEEE Signal Processing Society

JOURNAL TOPICS

- » Virtualization and container technologies
- » Resource management and optimization
- » Software-defined systems
- » Big data management and analytics
- » Programming models/tools
- » Security and privacy
- » Cloud interoperability
- » Energy management
- » Datacenter networking
- » Mobile cloud computing
- » Cloud performance and dependability
- » Business support and operational support systems
- » Cloud-based regulations and compliance
- » Cloud economics

Publication
frequency
Quarterly

Published
since
2013

Impact
factor (2023)
5.3



www.computer.org/tcc

IEEE TRANSACTIONS ON

KNOWLEDGE AND DATA ENGINEERING

IEEE Transactions on Knowledge and Data Engineering (TKDE) is an archival journal designed to inform researchers, developers, managers, strategic planners, users, and others interested in state-of-the-art and state-of-the-practice activities in the knowledge and data engineering area.

JOURNAL TOPICS

- » Artificial intelligence techniques
- » Distributed knowledge base and database processing
- » Real-time knowledge bases and databases
- » Architectures for knowledge and data-based systems
- » Data management methodologies
- » Database design and modeling
- » Query, design, and implementation languages
- » Integrity, security, and fault tolerance
- » Distributed database control
- » Statistical databases
- » System integration and modeling
- » Algorithms and performance evaluation
- » Data communications
- » Big data and applications

Publication
frequency
Monthly

Published
since
1989

Impact
factor (2023)
8.9



www.computer.org/tkde

IEEE TRANSACTIONS ON

SERVICES COMPUTING

IEEE Transactionso on Services Computing (TSC) covers all computing and software aspects of the science and technology of services innovation research and development. It emphasizes the algorithmic, mathematical, statistical, and computational methods that are central in services computing.

JOURNAL TOPICS

- » Service-oriented architecture (SOA)
- » Web services
- » Business process integration and management
- » Solution performance management
- » Services creation, development, operation, and management
- » Link between IT services and business services
- » Security and privacy
- » Web services agreements, contracts, discovery and negotiation, management, collaboration, quality of service, modeling, and performance management
- » Service-oriented grid computing topics
- » Standards and specifications of services computing
- » Utility models and solution architectures

Publication
frequency
Bimonthly

Published
since
2008

Impact
factor (2023)
5.5



www.computer.org/tsc

IEEE TRANSACTIONS ON

PARALLEL AND DISTRIBUTED SYSTEMS

IEEE Transactions on Parallel and Distributed Systems (TPDS) publishes a range of papers, comments on previously published papers, and survey articles that deal with the parallel and distributed systems research areas of current importance to its readers.

JOURNAL TOPICS

- » Parallel and distributed algorithms
- » Applications of parallel and distributed computing
- » Parallel and distributed architectures
- » Parallel and distributed software

“Parallelism is for high performance, and distributed is for resource sharing and coordination. Parallel and distributed systems are the most advanced computing systems. They are the backbone of almost all the advancements of modern sciences and engineering and the heart of the digital world. TPDS is the flagship journal of IEEE in parallel and distributed system research.”

—XIAN-HE SUN, EDITOR IN CHIEF

Publication
frequency
Monthly

Published
since
1990

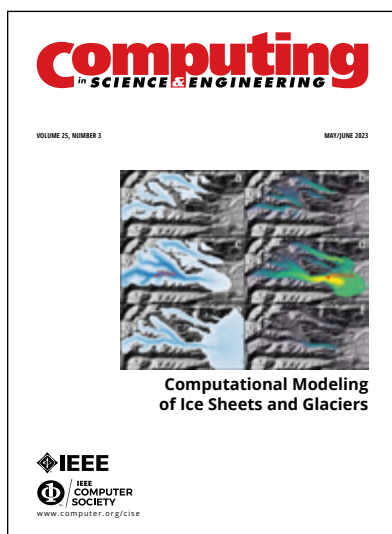
Impact
factor (2023)
5.6



www.computer.org/tpds

computing

in **SCIENCE & ENGINEERING**



Computing in Science & Engineering (CiSE) is a cross-disciplinary, international publication that presents contributions of high interest and educational value from a variety of fields, including—but not limited to—physics, biology, chemistry, and astronomy.

These fields and other hard sciences share a common need for efficient algorithms, system software, and computer architecture to address large computational problems. And yet, useful advances in computational

techniques that could benefit many researchers are rarely shared. To meet that need, *CiSE* presents scientific and computational contributions in a clear and accessible format.

CiSE emphasizes innovative applications in advanced computing, simulation, and analytics, among other cutting-edge techniques. It publishes peer-reviewed research articles and runs departments spanning news and analyses, topical reviews, tutorials, case studies, and more.

Technical cosponsors: IEEE Antennas and Propagation Society;
IEEE Signal Processing Society



www.computer.org/cise

“CiSE has a unique perspective, and our community of global contributors are well positioned to explore the key challenges, innovations, and insights of computing in science and engineering in the articles we publish.”

—ILKAY ALTINTAS, EDITOR IN CHIEF



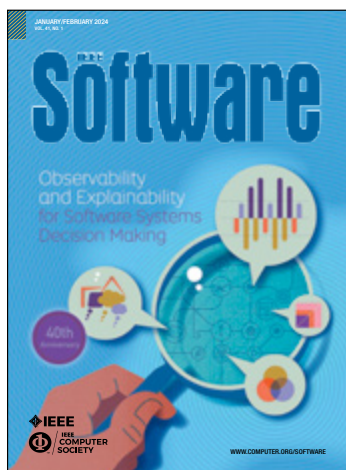
RECENT SPECIAL ISSUE TOPICS

- » Computational Science in the Battle against COVID-19
- » Best of RESPECT 2019
- » Computational Science and Engineering Education in Different Countries
- » Virtual and Augmented Reality Applications in Science and Engineering

Published
since
1999

Impact
factor (2023)
1.8

IEEE Software



The authority on translating software theory into practice, *IEEE Software (SW)* positions itself between pure research and pure practice, transferring ideas, methods, and experiences among researchers and engineers.

Peer-reviewed articles and columns by real-world experts illuminate all aspects of the industry. *IEEE Software* welcomes articles describing how software is developed in specific companies, laboratories, and university environments, as well as articles describing new tools, current trends, and past projects' limitations, failures, and successes.

Publication
frequency
Bimonthly

Published
since
1984

Impact
factor (2023)
3.3



www.computer.org/software

“IEEE Software magazine provides current trends and know-how of software to give practitioners, researchers, and students a quick insight in a variety of software topics.”

—SIGRID ELDH, EDITOR IN CHIEF

MAGAZINE TOPICS

- » Software architectures
- » Program and system debugging and testing
- » The education of software professionals
- » Requirements, design, development, testing, and management methodologies
- » Performance measurement and evaluation
- » Standards
- » Program/system reliability, security, and verification
- » Programming environments
- » Languages and language-related issues
- » Web-based development
- » Usability
- » Social and legal issues

AWARDS



Sentiment and Emotion in Software Engineering (September/October 2019) won the 2020 Apex Award of Excellence and the 2020 Folio: Eddie Award.



Software Engineering's 50th Anniversary (September/October 2018) won the 2019 Apex Award of Excellence and received an honorable mention for the 2019 Folio: Digital Award.

IEEE Transactions on Software Engineering (TSE) publishes well-defined theoretical results and empirical studies that have the potential to impact the construction, analysis, or management of software.

JOURNAL TOPICS

- » Development and maintenance methods and models
- » Assessment methods
- » Software project management
- » Tools and environments
- » System issues
- » State-of-the-art surveys that provide a synthesis and comprehensive review of the historical development of one particular area of interest

“*With software playing an increasingly critical role in shaping our world, TSE is more relevant than ever as a resource for software engineers and researchers who look to advance how software should be built to provide solutions to the ever-changing needs of society. The efforts of authors, reviewers, and editorial board members are key to maintaining the journal's high standards.*”

—SEBASTIAN UCHITEL,
EDITOR IN CHIEF

www.computer.org/tse



Publication
frequency
Monthly

Published
since
1975

Impact
factor (2023)
6.5

IEEE TRANSACTIONS ON

SUSTAINABLE COMPUTING

IEEE Transactions on Sustainable Computing (TSUSC) is a peer-reviewed journal devoted to publishing high-quality papers that explore the different aspects of sustainable computing over a wide range of problem domains and technologies, from software and hardware designs to applications.

Sustainability includes energy efficiency, natural resources preservation, and use of multiple energy sources as needed in computing devices and infrastructure.

Contributions to *TSUSC* address sustainability problems in computing and information processing environments and technologies, and at different levels of the computational process.

Financial cosponsor: IEEE Communications Society

Technical cosponsor: IEEE Council on Electronic Design Automation

“*Following the founding editor in chief, Prof. Albert Zomaya, I will continue to promote the publication to be one of the most prestigious journals in the community, and to shape it to be a flag in this rapidly growing field of sustainable computing.*”

—MINYI GUO, EDITOR IN CHIEF

www.computer.org/tsusc



Published
since
2016

Impact
factor (2023)
3.0



IEEE COMPUTER SOCIETY OFFICES

Washington, DC

2001 L St. NW, Ste. 700

Wash., DC 20036-4928

Los Alamitos, CA

10662 Los Vaqueros Cir.

Los Alamitos, CA 90720

MEMBERSHIP & PUBLICATION ORDERS

P: +1 800 678 4333

W: www.computer.org/membership

E: help@computer.org

