

# IET JOURNALS 2015

- Letters Journals
- The Journal of Engineering
- Communications
- Signal & Image Processing
- Electronics & Computer Science
- Life Science
- Power & Control
- Transport

# Welcome to IET Journals 2015

Spanning the spectrum of engineering and technology, IET research, letters and open access journals cover the disciplines of electrical, electronics, computing, control, biomedical and communications technologies.

In addition to a range of Research Journals that includes *Renewable Power Generation*; *Communications*; *Radar, Sonar & Navigation* and *Power Electronics*, the IET Letters Journals portfolio comprises the flagship *Electronics Letters*, internationally renowned for its interdisciplinary coverage and rapid time to publication, and *Micro & Nano Letters*. Also, recently launched is *Healthcare Technology Letters*, providing authoritative content in modern healthcare engineering and technology and exclusively available on the IET Digital Library.

## What's new?

**FREE conference content** - A subscription to an IET journal package provides you and your readers with comprehensive access in print and digital format ensuring that multiple users can access online content whenever they need it. This year, our extensive range of conference content from the IET and 3<sup>rd</sup> party events has been included in the IET Journals Complete Collection, at no additional charge.

**e-first publishing** - Additionally, we have introduced e-first publishing, providing you with access to all articles as soon as they are ready for publication and in advance of the whole issue being published anywhere else. Our platform and its content really does provide the fastest access to cutting edge engineering and technology content.

**Developing online resources** - Also on the IET Digital Library, all articles are provided in full-text HTML and you can access COUNTER4 statistics to ensure that you monitor your users' access more effectively. We will also be enabling OpenAthens and Shibboleth shortly (Autumn 2014).

However, we have big plans for our digital platform. We are currently scoping a number of key enhancements to be delivered in the next few months and throughout 2015 in order to make the IET Digital Library the central repository for key engineering and technology content.

## Try our flexible packages

All IET subscription packages are designed to offer value and flexibility. Accessed via the widely acclaimed IET Digital Library, researchers are able to easily make use of a range of interdisciplinary and single scope publications.

For further information or to trial any of our products, contact your regional office or local representative (see pages 36-37), or visit [www.ietdl.org](http://www.ietdl.org) for further information.

## Increasing quality

The majority of our journals are already indexed by IET *Inspec*, SCI and SCI-E, Scopus, Ei Compendex, Web of Science and four of our computer journals (*Software*, *Information Security*, *Wireless Sensor Systems* and *Computers & Digital Techniques*) are now indexed by DBLP. With such weighty endorsements we believe that our journals are an essential addition to the library offering.

As a direct result of the greater number of high-quality submissions and the huge efforts by our editorial boards, we have gained a number of improved impact factors and increased the frequency of a number of our titles:

- IET *Generation, Transmission & Distribution*:  
**Now 16 issues** – up from 12
- IET *Intelligent Transport Systems*:  
**Now 10 issues** – up from 8
- IET *Science, Measurement & Technology*:  
**Now 8 issues** – up from 6
- IET *Nanobiotechnology*:  
**Now 6 issues** – up from 4
- IET *Networks*:  
**Now 6 issues** – up from 4
- IET *Wireless Sensor Systems*:  
**Now 6 issues** – up from 4

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## LETTERS JOURNALS

The IET's letters journals offer researchers express publication of short research papers covering the latest advances in their field. They offer readers the opportunity to stay up-to-date with rapid changes and significant research findings.

AVAILABLE IN PRINT AND ONLINE

## Electronics Letters

### EDITORS-IN-CHIEF

**Professor Chris Toumazou, Imperial College London, UK**

**Professor Ian White, University of Cambridge, UK**

### Journal Scope

*Electronics Letters* is renowned worldwide for its rapid publication of short, high-quality international research papers, at the cutting edge of technology. Publishing original papers and features from right across the spectrum of modern electronics and engineering, *Electronics Letters* is unique in the diversity of its scope and audience.

It is an invaluable source of information on the latest advances across the spectrum of electronic science and engineering, including communication, biomedical, photonic and device technologies. It also provides a unique insight into some of the latest developments and people behind the research through special features and interviews.

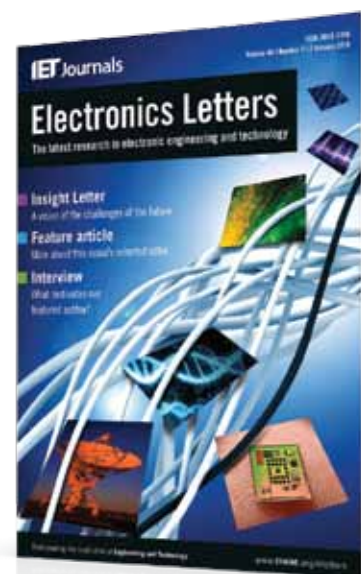
Containing only the most significant and original research papers, it is the speed of publication and exclusivity of information that make *Electronics Letters* so highly regarded by those in electronics research communities. It is essential for those who want to stay informed in this fast-moving field.

*Electronics Letters* encompasses the entire field of electronic science and engineering. Major themes of the journal include, but are not limited to:

- Biomedical electronics, imaging and measurement
- Nanotechnology, microsystems
- Semiconductor technology
- Analogue, digital and power electronics
- Wireless communication, multimedia communication and telecommunication
- Optical communication, systems and devices
- Photonics
- Image, speech and signal processing
- Microwave and millimetre wave technology
- Radar and sonar systems

### Readership

*Electronics Letters* is read by an international audience of academic, governmental and industrial engineers and scientists working across the spectrum of modern electronics and electrical engineering.



**Frequency:** 25 issues

**ISSN (print):** 0013-5194

**ISSN (online):** 1350-911X

**Impact Factor:** 1.068

**Print & Online price:** £1,973 • \$3,772

**Corporate price:** POA

**Packages:** All

[www.theiet.org/eletters](http://www.theiet.org/eletters)

# Healthcare Technology Letters

EDITOR-IN-CHIEF

Professor Christopher James, University of Warwick, UK

## Journal Scope

Launched in 2014, *Healthcare Technology Letters* is an online-only source of express peer-reviewed content covering modern healthcare engineering and technology fields. Drawing on the established reputation of *Electronics Letters*, and the more recently launched *Micro & Nano Letters*, the latest addition to the Letters series is essential reading for a wide audience of engineers, physical scientists, computer scientists and mathematicians working in the field of healthcare technology.

*Healthcare Technology Letters* is interdisciplinary, with a primary focus on the latest advances in engineering, and computer and information science for healthcare.

Major technological/methodological areas covered: Biomedical signal processing; Biomedical imaging and image processing; Bioinstrumentation (sensors, wearable technologies, etc); Biomedical informatics.

Major application areas covered: Cardiovascular and respiratory systems engineering; Neural engineering, neuromuscular systems; Rehabilitation engineering; Bio-robotics, surgical planning and biomechanics; Therapeutic and diagnostic systems, devices and technologies; Clinical engineering; Healthcare information systems, telemedicine, mHealth.

## Readership

*Healthcare Technology Letters* will be most relevant to biomedical engineers, and electrical engineers and computer scientists working in the biomedical field from academia and industry. It will also be of interest to clinical researchers and those working in medical fields seeking engineering solutions to healthcare challenges.

Readers can expect:

- Exclusively available on the IET Digital Library
- Six online issues + e-first publication
- Papers may also include video and animation

## Upcoming Special Issue:

### ***Wearable Healthcare Technology***

Papers invited by the journal's Editor-in-Chief



**Frequency:** 6 issues

**ISSN (online):** 2053-3713

**Online price:** £561 • \$1,121

**Corporate price:** POA

**Packages:** IET Complete Collection;  
Healthcare Technologies

[www.theiet.org/HTL](http://www.theiet.org/HTL)

# Micro & Nano Letters

## CO-EDITORS-IN-CHIEF

Professor Gwo-Bin (Vincent) Lee, National Tsing Hua University, Taiwan

Professor Peter Dobson, University of Warwick and Queen's College Oxford, UK

## Journal Scope

*Micro & Nano Letters* offers express online publication of short research papers containing the latest advances in micro- and nano-scale science, engineering and technology, with at least one dimension ranging from micrometres to nanometres. *Micro & Nano Letters* offers readers high-quality original research findings from both the micro and nano communities.

*Micro & Nano Letters* addresses issues spanning fundamental understanding to experimental demonstrations in the disciplines of engineering, physical, chemical, biological and material science. It places particular emphasis on cross-disciplinary activities and applications.

Typical topics include:

- MEMS and NEMS
- Micro- and nano-structures and devices
- Modelling, simulation and realisation of micro- and nano-scale structures, devices and systems
- Synthesis and processing
- Micro- and nano-photonics
- Molecular machines, circuits and self-assembly
- Organic and inorganic micro- and nano-structures
- Micro- and nano-fluidics

## Readership

*Micro & Nano Letters* is read by an international audience of academic, governmental and industrial researchers working within the micro and nano communities.

With all IET Journals now publishing papers e-first exclusively on the IET Digital Library, we ensure research is available at the earliest opportunity and ahead of issue publication, keeping your researchers continually updated.



**Frequency:** 12 issues

**ISSN (online):** 1750-0443

**Impact Factor:** 0.799

**Online price:** £421 • \$825

**Corporate price:** POA

**Packages:** IET Complete Collection;  
Materials, Circuits & Devices

[www.theiet.org/MNL](http://www.theiet.org/MNL)



## OPEN ACCESS JOURNAL

# The Journal of Engineering (JoE)

## CHIEF ADVISORS

Professor Lionel Tarassenko, University of Oxford, UK  
 Professor Norbert Peters, RWTH Aachen University, Germany  
 Naomi Climer, Sony, USA

## SECTION EDITORS

In addition to the Chief Advisors, this journal is supported by a renowned and international team of eight Section Editors and an experienced in-house editorial team.

## Journal Scope

The IET's pure gold, open access megajournal offers engineering researchers a different way of making their research available to others. *The Journal of Engineering* is only available online and places emphasis on peer-reviewed papers based on scientific soundness rather than significance and welcomes best practice papers, case studies and research with null or negative results. *JoE* enables faster publication with all papers available **free to view** exclusively on the IET Digital Library.

*JoE* publishes primary research across a broad spectrum of engineering fields. Initial topics include the following but the journal welcomes submissions in interdisciplinary areas and related emerging fields and also hopes to expand the scope in the future to reflect any developments in the field:

- Biomedical engineering
- Civil engineering
- Computing and software
- Electrical and electronic engineering
- Energy engineering
- Materials engineering
- Mechanical engineering
- Micro- and nanotechnology

*The Journal of Engineering* is fully open access, while for the other IET journals, open access publication is offered as an option to authors at article acceptance, following peer review.

## Readership

Such is the broad scope of *The Journal of Engineering* it will be essential reading for a wide range of engineers and technologists in interdisciplinary fields.



Online ISSN: 2051-3305

Packages: All (Open Access)

[www.thejournalofengineering.org](http://www.thejournalofengineering.org)

## WHAT IS OPEN ACCESS PUBLISHING?

Open access publishing enables articles, accepted through peer review, to be made freely available online to anyone with access to the internet. Open access publishing with the IET is funded through author publication charges, which is commonly paid for by the researchers funders. This model differs from the subscription-based publishing model, whereby readers (or more commonly, readers' institutions) pay for access to journal articles.

# IET Communications

EDITOR-IN-CHIEF

Professor Xuemin (Sherman) Shen, University of Waterloo, Canada

## Journal Scope

IET *Communications* covers the fundamental and generic research for a better understanding of communication technologies to harness the signals for better performing communication systems using various wired and/or wireless media. This journal is particularly interested in research papers reporting novel solutions to the dominating problems of noise, interference, timing and errors for reduction systems deficiencies such as wasting scarce resources such as spectra, energy and bandwidth.

Topics include, but are not limited to:

- Coding and Communication Theory
- Modulation and Signal Design
- Wired, Wireless and Mobile, and Optical Communication
- Communication System

## Readership

This publication is invaluable to those interested in state-of-the-art research on solutions to the dominating problems of noise, interference, timing and errors for reduction systems deficiencies.



**Frequency:** 18 issues

**ISSN (print):** 1751-8628

**ISSN (online):** 1751-8636

**Impact Factor:** 0.720

**Print & Online price:** £1,441 • \$2,777

**Corporate price:** POA

**Packages:** IET Complete Collection;  
Telecommunications

[www.ietdl.org/IET-COM](http://www.ietdl.org/IET-COM)



See the Telecommunications & Networks section of our **Books 2015 Catalogue** for other titles of interest.



# IET Information Security

## EDITOR-IN-CHIEF

**Professor Yvo Desmedt, University College London UK and  
University of Dallas, USA**

## Journal Scope

*IET Information Security* publishes original, peer-reviewed, research papers in information security and cryptography.

Information security is a multidisciplinary field that spans the very broad area of computer security, modern cryptography, and the electronic aspects of hardware security. The aim of the journal is to bring together papers from all disciplines contributing to information security.

Some of the topics covered by this journal are: access control and database security; block ciphers and hash functions; financial cryptography; economic aspects of information security; key management and secret sharing; malware; peer-to-peer security; quantum cryptography; secure electronic commerce; and watermarking and fingerprinting.

## Readership

Publishing research papers, news and commentaries, this journal will be of special importance to anyone with an interest in information security, particularly research-level engineers, mathematicians, computer scientists, software engineers and security experts within the IT, engineering, communications, healthcare, aerospace, utilities, financial, military and government communities.



## FREQUENCY INCREASE

**Frequency:** 6 issues

**ISSN (print):** 1751-8709

**ISSN (online):** 1751-8717

**Impact Factor:** 0.631

**Print & Online price:** £529 • \$1,019

**Corporate price:** POA

**Packages:** IET Complete Collection;  
Security; Computing and Networks

[www.ietdl.org/IET-IFS](http://www.ietdl.org/IET-IFS)

The majority of IET Journals are indexed in major databases such as IET *Inspec*, Ei Compendex and Scopus allowing research published with the IET to be easily discovered. For a full listing of where our journals are listed, please visit [www.ietdl.org/journals](http://www.ietdl.org/journals).

# IET Microwaves, Antennas & Propagation

EDITOR-IN-CHIEF

Professor Stavros Iezekiel, University of Cyprus, Cyprus

## Journal Scope

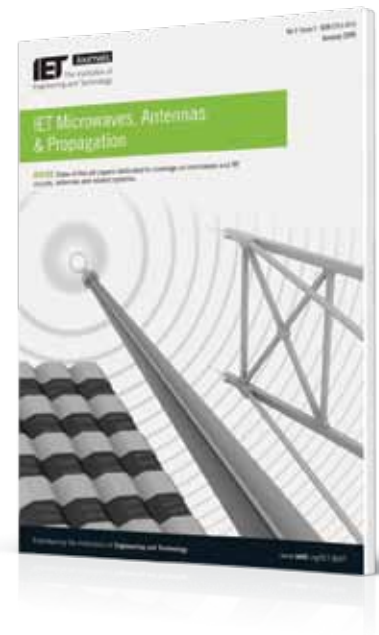
IET *Microwaves, Antennas & Propagation* comprehensively covers microwave and RF circuits, microwave and millimetre wave amplifiers, oscillators, switches, mixers and other components.

Topics covered include:

- **Microwave circuits:** RF, microwave and millimetre wave amplifiers, oscillators, switches, mixers and other components implemented in monolithic, hybrid, multi-chip module and other technologies. Papers on passive components may describe transmission-line and waveguide components, including filters, multiplexers, resonators, ferrite and garnet devices. Papers also cover microwave sub-systems for use in communications, radar, aerospace, instrumentation, and industrial and medical applications
- **Antenna topics include:** antennas for operation at all frequencies, multiband antennas, antenna measurement techniques and systems, antenna analysis and design, aperture antenna arrays, adaptive antennas, printed and wire antennas, microstrip and integrated antenna
- **Propagation topics include:** radiowave propagation at all frequencies and environments

## Readership

IET *Microwaves, Antennas & Propagation* is essential reading for researchers, professionals and graduates, in the fields of antennas and propagation, and RF/microwave systems. It will also be of interest to electrical and electronics engineers and professionals working on antenna and RF designs.



**Frequency:** 15 issues

**ISSN (print):** 1751-8725

**ISSN (online):** 1751-8733

**Impact Factor:** 0.969

**Print & Online price:** £1,810 • \$3,464

**Corporate price:** POA

**Packages:** IET Complete Collection;  
Electromagnetic and Radar

[www.ietdl.org/IET-MAP](http://www.ietdl.org/IET-MAP)



See the Telecommunications & Networks section of our **Books 2015 Catalogue** for other titles of interest.

# IET Networks

## EDITOR-IN-CHIEF

Dr Han-Chieh Chao, National Ilan University, Taiwan

## Journal Scope

IET *Networks* provides a comprehensive review of the rapidly growing volume of research into networks, their protocols and topologies.

It presents readers with new ideas and superior solutions to the known and arising bottlenecks in technological development at all levels of networking. Such bottlenecks include topologies, protocols, routing, relaying and resource-allocation for more efficient and more reliable provision of network services.

IET *Networks* covers:

- Network architecture, design and planning
- Network protocol, software, analysis, simulation and experiment
- Network technologies, applications and services
- Network security, operation and management

## Readership

IET *Networks* provides a forum for information technology educators, researchers, and practitioners to advance the practice and understanding of technologies regarding network architecture, protocol, technologies, and management.



## FREQUENCY INCREASE

**Frequency:** 6 issues

**ISSN (print):** 2047-4954

**ISSN (online):** 2047-4962

**Print & Online price:** £484 • \$824

**Corporate price:** POA

**Packages:** IET Complete Collection;  
Telecommunications

[www.ietdl.org/IET-NET](http://www.ietdl.org/IET-NET)

## EASY ACCESS TO RESEARCH FOR YOUR READERS



IET Journals are available online via the IET Digital Library which provides easy access to the best in engineering and technology research and information.

To find out about our range of journals packages, and discounts available, contact our sales team at [sales@theiet.org](mailto:sales@theiet.org) or visit [www.ietdl.org](http://www.ietdl.org) for more information.

# IET Radar, Sonar & Navigation

EDITOR-IN-CHIEF

Professor Hugh Griffiths, University College London, UK

## Journal Scope

IET *Radar, Sonar & Navigation* encompasses the theory and practice of systems relating to the processing of signals for radar, radiolocation, radionavigation and surveillance purposes.

Examples of the various fields of application include: radar, sonar, electronic warfare, avionic and navigation systems.

Processing directed towards the above application areas includes advances in waveform design, adaptive array and super-resolution methods, tracking algorithms, synthetic aperture, and target recognition techniques.

## Readership

IET *Radar, Sonar & Navigation* is essential reading for researchers working in the field of radar.

### Upcoming Special Issue:

***Application of Radar to Remote Patient Monitoring and Eldercare***

Guest Editor: Dr Fauzia Ahmad, Villanova University, USA



**Frequency:** 9 issues

**ISSN (print):** 1751-8784

**ISSN (online):** 1751-8792

**Impact Factor:** 1.028

**Print & Online price:** £1,246 • \$2,380

**Corporate price:** POA

**Packages:** IET Complete Collection;  
Electromagnetic and Radar

[www.ietdl.org/IET-RSN](http://www.ietdl.org/IET-RSN)



See the Radar, Sonar & Navigation section of our **Books 2015 Catalogue** for other titles of interest.

# IET Wireless Sensor Systems

## EDITOR-IN-CHIEF

Associate Professor Sherali Zeadally, University of Kentucky, USA

## Journal Scope

IET *Wireless Sensor Systems* covers papers from the growing field of wireless sensor networks and distributed systems, which has been expanding rapidly in recent years and is evolving into a multi-billion dollar industry. It gives a platform to researchers and academics in the field and covers the research, engineering, technological developments, and innovative deployment of distributed sensor and actuator systems.

Topics covered include:

Theoretical developments of:

- Innovative architectures for smart sensors, nano-sensors and actuators
- Unstructured networking
- Cooperative and clustering distributed sensors
- Data fusion for distributed sensors
- Distributed intelligence in distributed sensors
- Energy harvesting for and lifetime of smart sensors and actuators
- Cross-layer design and layer optimisation in distributed sensors
- Security, trust and dependability of distributed sensors

Innovative services and applications for:

- Monitoring: health, traffic, weather and toxins
- Surveillance: target tracking and localisation
- Observation: global resources and geological activities (Earth, forest, mines, underwater)
- Industrial applications of distributed sensors in green and agile manufacturing
- Sensor and RFID applications of the Internet-of-Things ('IoT')
- Smart metering
- Machine-to-machine communications

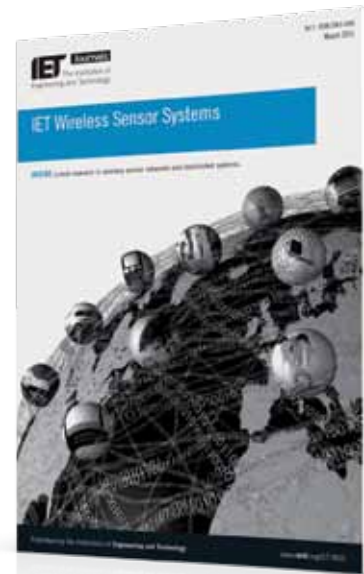
## Readership

Essential reading for researchers and academics in the growing field of wireless sensor systems.

## Upcoming Special Issue:

***Advances in Wireless Sensing for Health, Environment and Agriculture***

Guest Editor: Dr Alex Mason, Liverpool John Moores University, UK



## FREQUENCY INCREASE

**Frequency:** 6 issues

**ISSN (print):** 2043-6386

**ISSN (online):** 2043-6394

**Print & Online price:** £510 • \$973

**Corporate price:** POA

**Packages:** IET Complete Collection; Telecommunications

[www.ietdl.org/IET-WSS](http://www.ietdl.org/IET-WSS)

# IET Biometrics

EDITOR-IN-CHIEF

Professor Michael Fairhurst, University of Kent, UK

## Journal Scope

The field of biometric recognition - automated recognition of individuals based on their behavioural and biological characteristics - has reached a level of maturity where viable practical applications are both possible and increasingly available.

IET *Biometrics* includes papers that increase our understanding of biometric systems, signal future developments and applications for biometrics, and/or promote greater practical uptake for relevant technologies. Some of the topics covered include:

- Development and enhancement of individual biometric modalities including established and traditional modalities (e.g. face, fingerprint, iris, signature and handwriting recognition) and also newer or emerging modalities (gait, ear-shape, and neurological patterns)
- Multibiometrics, theoretical and practical issues, implementation of practical systems, multiclassifier and multimodal approaches
- Soft biometrics and information fusion for identification, verification and trait prediction
- Human factors and the human-computer interface issues for biometric systems, exception handling strategies
- Position papers on technology or on the industrial context of biometric system development
- Adoption and promotion of standards in biometrics, improving technology acceptance, deployment and interoperability, avoiding cross-cultural and cross-sector restrictions
- Relevant ethical and social issues

## Readership

Essential reading for researchers working in this exciting interdisciplinary area.

### Upcoming Special Issue:

#### ***Biometric Performance and Statistics***

Guest Editor: Norman Poh, University of Surrey, UK



**Frequency:** 4 issues

**ISSN (print):** 2047-4938

**ISSN (online):** 2047-4946

**Print & Online price:** £484 • \$824

**Corporate price:** POA

**Packages:** IET Complete Collection; Security; Computing and Networks

[www.ietdl.org/IET-BMT](http://www.ietdl.org/IET-BMT)



# IET Computer Vision

EDITOR-IN-CHIEF

Professor Majid Mirmehdi, University of Bristol, UK

## Journal Scope

IET *Computer Vision* publishes original research papers in a wide range of areas of electronic visual interpretation and recognition, including reconstruction of 3D depth information, estimation of object motion, attribute-based recognition, and high-level scene understanding. It publishes the most relevant and topical research in its field, explores new horizons, and aims to set the agenda for future research in computer vision.

Some of the topics covered are:

### Methodology

- Biologically and perceptually motivated approaches to low level vision (e.g. feature detection)
- Object recognition
- Image understanding
- Motion analysis and object tracking
- Control in vision systems

### Applications

- Face and gesture
- Robotics, vehicle guidance
- Automatic model acquisition
- Medical image analysis and understanding

## Readership

IET *Computer Vision* is read by academics and professionals who want to keep up-to-date with the latest advances in the field. It will be of interest to practitioners and programmers working in 3D computer vision, image processing and analysis as well as computer visualisation. It is also invaluable to researchers and graduates in the fields of computer science, engineering and robotics.

### Upcoming Special Issue:

#### *Unsupervised Feature Learning for Vision*

Guest Editor: Shengping Zhang, Brown University, USA



**Frequency:** 6 issues

**ISSN (print):** 1751-9632

**ISSN (online):** 1751-9640

**Impact Factor:** 0.758

**Print & Online price:** £615 • \$1,173

**Corporate price:** POA

**Packages:** IET Complete Collection;  
Computing and Networks

[www.ietdl.org/IET-CVI](http://www.ietdl.org/IET-CVI)

# IET Image Processing

EDITOR-IN-CHIEF

Dr Farzin Deravi, University of Kent, UK

## Journal Scope

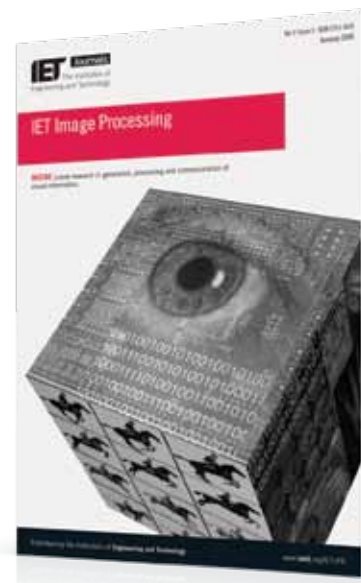
The IET *Image Processing* journal encompasses research related to the generation, processing and communication of visual information. The focus of the journal is the coverage of the latest research results in image and video processing, including image generation and display, enhancement and restoration, segmentation, colour and texture analysis, coding and communication, implementations and architectures as well as innovative applications.

Principal topics include:

- **Generation and Display:** Imaging sensors and acquisition systems, illumination, sampling and scanning, quantisation, colour reproduction, image rendering, display and printing systems, evaluation of image quality
- **Processing and Analysis:** Image enhancement, restoration, segmentation, registration, multispectral, colour and texture processing, multiresolution processing and wavelets, morphological operations, stereoscopic and 3-D processing, motion detection and estimation, video and image sequence processing
- **Implementations and Architectures:** Image and video processing hardware and software, design and construction, architectures and software, neural, adaptive, and fuzzy processing
- **Coding and Transmission:** Image and video compression and coding, compression standards, noise modelling, visual information networks, streamed video
- **Retrieval and Multimedia:** Storage of images and video, database design, image retrieval, video annotation and editing, mixed media incorporating visual information, multimedia systems and applications, image and video watermarking, steganography
- **Applications:** Innovative application of image and video processing technologies to any field, including life sciences, earth sciences, astronomy, document processing and security

## Readership

IET *Image Processing* is an invaluable resource for researchers, graduates and practitioners in various disciplines from life sciences and medicine to document security and mathematics and those with a professional interest in image processing.



## FREQUENCY INCREASE

**Frequency:** 12 issues

**ISSN (print):** 1751-9659

**ISSN (online):** 1751-9667

**Impact Factor:** 0.676

**Print & Online price:** £748 • \$1,456

**Corporate price:** POA

**Packages:** IET Complete Collection;  
Computing and Networks

[www.ietdl.org/IET-IPR](http://www.ietdl.org/IET-IPR)



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# IET Signal Processing

EDITOR-IN-CHIEF

Dr James Hopgood, University of Edinburgh, UK

## Journal Scope

IET *Signal Processing* publishes topics such as algorithm advances in single and multi-dimensional, linear and non-linear, recursive and non-recursive digital filters and multi-rate filter banks. It also covers papers on the application of chaos theory, and neural-network-based approaches to signal processing.

Some of the topics covered include:

- Advances in single and multi-dimensional filter design and implementation
- Linear and nonlinear, fixed and adaptive digital filters and multirate filter banks
- Statistical signal processing techniques and analysis
- Classical, parametric and higher order spectral analysis
- Signal transformation and compression techniques, including time-frequency analysis
- System modelling and adaptive identification techniques
- Machine learning based approaches to signal processing
- Bayesian methods for signal processing, including Monte-Carlo Markov-chain and particle filtering techniques

See the IET *Signal Processing* website at [www.ietdl.org/IET-SPR](http://www.ietdl.org/IET-SPR) for further information on the scope coverage

## Readership

This journal is essential reading for academics and professionals with an interest in signal processing and its varied applications.



**Frequency:** 9 issues

**ISSN (print):** 1751-9675

**ISSN (online):** 1751-9683

**Impact Factor:** 0.691

**Print & Online price:** £737 • \$1,410

**Corporate price:** POA

**Packages:** IET Complete Collection;  
Computing and Networks

[www.ietdl.org/IET-SPR](http://www.ietdl.org/IET-SPR)

## EASY ACCESS TO RESEARCH FOR YOUR READERS



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To find out about our range of journals packages, and discounts available, contact our sales team at [sales@theiet.org](mailto:sales@theiet.org) or visit [www.ietdl.org](http://www.ietdl.org) for more information.

# IET Circuits, Devices & Systems

EDITOR-IN-CHIEF

Professor Asim Ray, Brunel University, UK

## Journal Scope

IET *Circuits, Devices & Systems* covers all aspects of circuit theory, design and implementation including current research in nanoelectronics and MEMs.

IET *Circuits, Devices & Systems* covers:

- Circuit theory and design, circuit analysis and simulation, computer aided design
- Filters (analogue and switched capacitor)
- Circuit implementations, cells and architectures for integration including VLSI
- Testability, fault tolerant design, minimisation of circuits and CAD for VLSI
- Novel or improved electronic devices for both traditional and emerging technologies including nanoelectronics and MEMs, device and process characterisation, device parameter extraction schemes
- Mathematics of circuits and systems theory
- Test and measurement techniques involving electronic circuits, circuits for industrial applications, sensors and transducers

## Readership

IET *Circuits, Devices & Systems* is an important journal for academics and engineering professionals who want to keep up-to-date with advances in the field. It is useful reading for electrical and electronics engineers and those with an advanced interest in circuit theory and design.

## Upcoming Special Issue:

### Graphene Electronics

Papers invited by the journal's Editor-in-Chief



**Frequency:** 6 issues

**ISSN (print):** 1751-858X

**ISSN (online):** 1751-8598

**Impact Factor:** 0.912

**Print & Online price:** £1,077 • \$2,072

**Corporate price:** POA

**Packages:** IET Complete Collection;  
Materials, Circuits & Devices

[www.ietdl.org/IET-CDS](http://www.ietdl.org/IET-CDS)



See the Materials, Circuits & Devices section of our **Books 2015 Catalogue** for other titles of interest.

# IET Computers & Digital Techniques

## EDITOR-IN-CHIEF

Professor Andy Tyrrell, University of York, UK

## DEPUTY EDITOR-IN-CHIEF

Associate Professor Prabhat Mishra, University of Florida, USA

## Journal Scope

*IET Computers & Digital Techniques* publishes technical papers describing recent research and development work in all aspects of digital system-on-chip design and test of electronic and embedded systems, including the development of design automation tools (methodologies, algorithms and architectures). Papers based on the problems associated with the scaling down of CMOS technology are particularly welcome.

The key subject areas of interest are:

**Design Methods and Tools:** CAD/EDA tools, hardware description languages, high-level and architectural synthesis, hardware/software co-design, platform-based design, 3D stacking and circuit design, system on-chip architectures and IP cores, embedded systems, logic synthesis, low-power design and power optimisation.

**Simulation, Test and Validation:** electrical and timing simulation, simulation based verification, hardware/software co-simulation and validation, mixed-domain technology modelling and simulation, post-silicon validation, power analysis and estimation, interconnect modelling and signal integrity analysis, hardware trust and security, design-for-testability, embedded core testing, system-on-chip testing, on-line testing, automatic test generation and delay testing, low-power testing, reliability, fault modelling and fault tolerance.

**Processor and System Architectures:** many-core systems, general-purpose and application specific processors, computational arithmetic for DSP applications, arithmetic and logic units, cache memories, memory management, co-processors and accelerators, systems and networks on chip, embedded cores, platforms, multiprocessors, distributed systems, communication protocols and low-power issues.

**Configurable Computing:** embedded cores, FPGAs, rapid prototyping, adaptive computing, evolvable and statically and dynamically reconfigurable and reprogrammable systems, reconfigurable hardware.

**Design for variability, power and ageing:** design methods for variability, power and ageing aware design, memories, FPGAs, IP components, 3D stacking, energy harvesting.

**Case Studies:** emerging applications, applications in industrial designs, and design frameworks.

## Readership

*IET Computers & Digital Techniques* is essential reading for researchers, engineers and educators in the fields of computer and digital systems design and test.



**Frequency:** 6 issues

**ISSN (print):** 1751-8601

**ISSN (online):** 1751-861X

**Impact Factor:** 0.360

**Print & Online price:** £1,077 • \$2,072

**Corporate price:** POA

**Packages:** IET Complete Collection;  
Computing and Networks

[www.ietdl.org/IET-CDT](http://www.ietdl.org/IET-CDT)

## Upcoming Special Issue:

***Designing with Uncertainty –  
Opportunities & Challenges***

Guest Editors: Dr Martin Trefzer,  
University of York and Dr Sani  
Nassif, IBM

# IET Optoelectronics

EDITOR-IN-CHIEF

Professor Richard Penty, University of Cambridge, UK

## Journal Scope

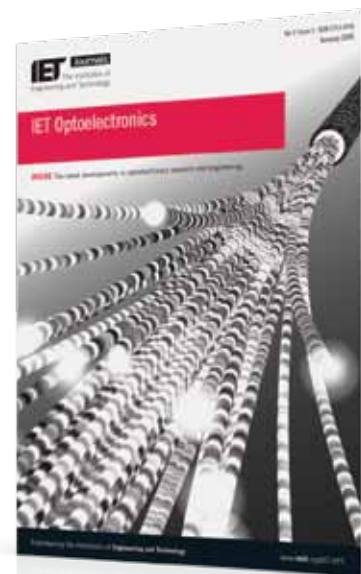
IET *Optoelectronics* publishes state-of-the-art research papers in the field of optoelectronics and photonics. Most of the papers published cover original research from universities and industrial and government laboratories.

IET *Optoelectronics* covers:

- Optical and optoelectronic materials
- Light sources, including LEDs, lasers and devices for lighting
- Optical modulation and multiplexing
- Optical fibres, cables and connectors
- Optical amplifiers
- Photodetectors and optical receivers
- Photonic integrated circuits
- Nanophotonics and photonic crystals
- Optical signal processing
- Holography
- Displays

## Readership

This journal is essential reading for practicing engineers, researchers, and postgraduates in the field of optoelectronics and photonics who want to keep up-to-date with the latest research.



**Frequency:** 6 issues

**ISSN (print):** 1751-8768

**ISSN (online):** 1751-8776

**Impact Factor:** 0.966

**Print & Online price:** £809 • \$1,558

**Corporate price:** POA

**Packages:** IET Complete Collection;  
Materials, Circuits & Devices

[www.ietdl.org/IET-OPT](http://www.ietdl.org/IET-OPT)

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# IET Science, Measurement & Technology

## EDITOR-IN-CHIEF

Dr Michael Cunningham, University of Manchester, UK

## Journal Scope

IET *Science, Measurement & Technology* publishes papers in science, engineering and technology underpinning electronic and electrical engineering, nanotechnology and medical instrumentation.

The key topics covered by IET *Science, Measurement & Technology* are:

- Electromagnetism including electromagnetic theory, computational electromagnetics and EMC
- Properties and applications of dielectric, magnetic, magneto-optic, and piezoelectric materials down to the nanometre scale
- Measurement and instrumentation including sensors, actuators, medical instrumentation, and fundamentals of measurement including measurement standards, uncertainty, dissemination and calibration

## Readership

IET *Science, Measurement & Technology* is essential reading for electrical and electronics engineers, researchers and practitioners, with an interest in the latest research in the science and technologies underpinning developments in their field.



## FREQUENCY INCREASE

**Frequency:** 8 issues

**ISSN (print):** 1751-8822

**ISSN (online):** 1751-8830

**Impact Factor:** 0.592

**Print & Online price:** £817 • \$1,558

**Corporate price:** POA

**Packages:** IET Complete Collection;  
Materials, Circuits & Devices

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# IET Software

## EDITOR-IN-CHIEF

**Professor Alessandra Russo, Imperial College London, UK**

## DEPUTY EDITOR-IN-CHIEF

**Dr Dalal Alrajeh, Imperial College London, UK**

### Journal Scope

*IET Software* publishes papers on all aspects of the software lifecycle, including design, development, implementation and maintenance. The focus of the journal is on the methods used to develop and maintain software, and their practical application.

*IET Software* covers all aspects of software engineering and places particular emphasis on the following topics:

- Software and systems requirements engineering
- Formal methods, design methods, practice and experience
- Software architecture, aspect and object orientation, reuse and re-engineering
- Testing, verification and validation techniques
- Software dependability and measurement
- Human systems engineering and human-computer interaction
- Knowledge engineering, expert and knowledge-based systems, intelligent agents
- Information systems engineering
- Application of software engineering in industry and commerce
- Software engineering technology transfer
- Management of software development
- Theoretical aspects of software development
- Education and training, including continuing professional development

### Readership

*IET Software* is an invaluable resource for computer engineers, software engineers, systems engineers and academics interested in the practical applications and the latest in software development. This journal is essential reading for anyone with an interest in any aspect of software engineering.



**Frequency:** 6 issues

**ISSN (print):** 1751-8806

**ISSN (online):** 1751-8814

**Impact Factor:** 0.536

**Print & Online price:** £1,155 • \$2,222

**Corporate price:** POA

**Packages:** IET Complete Collection;  
Computing and Networks

**[www.ietdl.org/IET-SEN](http://www.ietdl.org/IET-SEN)**

# IET Nanobiotechnology

EDITOR-IN-CHIEF

Professor Ronald Pethig, University of Edinburgh, UK

## Journal Scope

Nanobiotechnology extends from single molecule measurements using scanning probe techniques, through to interactions between cells and microstructures, micro- and nano-fluidics, and aspects of lab-on-chip technologies.

The primary aim of IET *Nanobiotechnology* is to provide a resource that brings together important developments in this exciting interdisciplinary field. It achieves this by publishing cutting-edge research papers and expert review articles from the international engineering and scientific community.

IET *Nanobiotechnology* covers all aspects of research and emerging technologies in the field including:

- Fundamental theories and concepts applied to biomedical-related devices and methods at the micro- and nano-scale (including methods that employ electrokinetic, electrohydrodynamic, and optical trapping techniques)
- Micromachining and microfabrication tools and techniques applied to the top-down approach to nanobiotechnology
- Nanomachining and nanofabrication tools and techniques directed towards biomedical and biotechnological applications (e.g. applications of atomic force microscopy, scanning probe microscopy and related tools)
- Colloid chemistry applied to nanobiotechnology (e.g. cosmetics, suntan lotions, bio-active nanoparticles)
- Microtechnologies such as lab-on-chip applied to pharmaceutical, biomedical and biotechnological applications
- Techniques for probing cell physiology, cell adhesion sites and cell–cell communication
- Molecular self-assembly, including concepts of supramolecular chemistry, molecular recognition, and DNA nanotechnology
- Societal issues such as health and the environment

## Readership

IET *Nanobiotechnology* is a vital resource for academic and industrial researchers operating in this exciting cross-disciplinary field.



## FREQUENCY INCREASE

**Frequency:** 6 issues

**ISSN (print):** 1751-8741

**ISSN (online):** 1751-875X

**Impact Factor:** 1.723

**Print & Online price:** £320 • \$617

**Corporate price:** POA

**Packages:** IET Complete Collection;  
Healthcare Technologies

[www.ietdl.org/IET-NBT](http://www.ietdl.org/IET-NBT)

# IET Systems Biology

EDITOR-IN-CHIEF

Professor Kwang-Hyun Cho, KAIST, Republic of Korea

## Journal Scope

*IET Systems Biology* publishes papers that take a systems and signal-oriented approach to the dynamic interactions within and between cells. It also includes papers that analyse genomic data in order to identify variables, and basic relationships between them, where the results provide a basis for mathematical modelling and simulation of cellular dynamics.

*IET Systems Biology* covers topics including the following:

- Genomics, transcriptomics, proteomics, metabolomics, cells, tissue and the physiome
- Molecular and cellular interaction, gene, cell and protein function
- Networks and pathways
- Metabolism and cell signalling
- Dynamics, regulation and control
- Systems, signals, and information
- Experimental data analysis
- Mathematical modelling, simulation and theoretical analysis
- Biological modelling, simulation, prediction and control
- Methodologies, databases, tools and algorithms for modelling and simulation
- Synthetic biology and bioengineering based on systems biology

## Readership

*IET Systems Biology* is a useful resource for engineers and academics wanting to keep up-to-date with the latest developments in bioelectronics, biomedical engineering and micro- and nano-engineering.



**Frequency:** 6 issues

**ISSN (print):** 1751-8849

**ISSN (online):** 1751-8857

**Impact Factor:** 1.672

**Print & Online price:** £912 • \$1,756

**Corporate price:** POA

**Packages:** IET Complete Collection;  
Healthcare Technologies

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# IET Control Theory & Applications

EDITOR-IN-CHIEF

Professor James Lam, University of Hong Kong, Hong Kong

## Journal Scope

*IET Control Theory & Applications* is dedicated to control systems in the broadest sense, and publishes theoretical papers which discuss the applications of new and established control methods.

Most of its papers represent original research from industrial and government laboratories and universities. However it also covers subject reviews and tutorial expositions of current methods and correspondence discussing published papers.

Topics covered include system modelling, identification and simulation, the analysis and design of control systems (including computer-aided design), and practical implementation.

The scope encompasses technological, economic, physiological (biomedical) and other systems, including man-machine interfaces.

## Readership

This journal is essential reading for those with an interest in all aspects of control systems and their applications. It will be of particular interest to control researchers and engineers, and those in other disciplines with an interest in the field.



**Frequency:** 18 issues

**ISSN (print):** 1751-8644

**ISSN (online):** 1751-8652

**Impact Factor:** 1.844

**Print & Online price:** £1,516 • \$2,899

**Corporate price:** POA

**Packages:** IET Complete Collection

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See the Control, Robotics & Sensors section of our **Books 2015 Catalogue** for other titles of interest.

# IET Electric Power Applications

EDITOR-IN-CHIEF

Professor Emil Levi, Liverpool John Moores University, UK

## Journal Scope

IET *Electric Power Applications* publishes papers of a high technical standard with a suitable balance of practice and theory. The scope covers a wide range of applications and apparatus in the power field. In addition to papers focusing on the design and development of electrical equipment, it also publishes analytical papers where the arguments are conveyed succinctly and the conclusions are clear.

IET *Electric Power Applications* covers topics including:

- The design and analysis of motors and generators of all sizes
- Rotating electrical machines
- Linear machines
- Actuators
- Power transformers
- Railway traction machines and drives
- Variable speed drives
- Machines and drives for electrically powered vehicles
- Industrial and non-industrial applications and processes

## Readership

IET *Electric Power Applications* is essential reading for researchers and engineering professionals in electrical power and energy systems, and electrical engineering. It will be a useful resource for those working in industries including utilities and transport.



**Frequency:** 9 issues

**ISSN (print):** 1751-8660

**ISSN (online):** 1751-8679

**Impact Factor:** 1.307

**Print & Online price:** £1,345 • \$2,572

**Corporate price:** POA

**Packages:** IET Complete Collection;  
Energy Engineering

[www.ietdl.org/IET-EPA](http://www.ietdl.org/IET-EPA)



See the Power & Energy section of our  
**Books 2015 Catalogue** for other titles of interest.



# IET Generation, Transmission & Distribution

## EDITORS-IN-CHIEF

**Dr Innocent Kamwa, Hydro-Quebec Research Institute, Canada**  
**Professor Christian Rehtanz, TU Dortmund, Germany**

## Journal Scope

IET *Generation, Transmission & Distribution* provides a forum for the publication and discussion of current best practice and future developments in electric power generation, transmission and distribution.

IET *Generation, Transmission & Distribution* includes papers on:

- Design of transmission and distribution plants
- Operation and control of power generation
- Power system management and planning
- Power system operation and control
- Power system measurement and correction
- Computer applications and computational intelligence in power flexible AC transmission systems

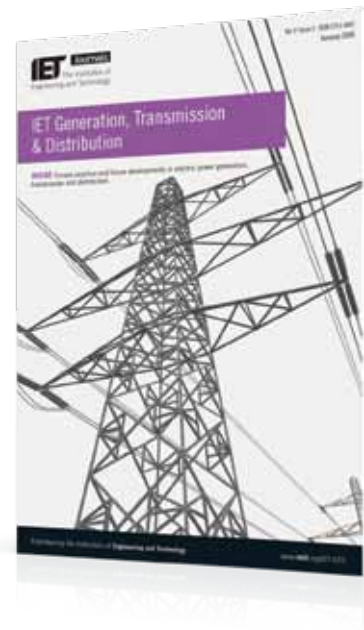
## Readership

This journal is essential reading for researchers and engineering professionals who want to keep up-to-date with the latest developments on research in electric power systems, and industry best practice on the generation, transmission and distribution of power.

## Upcoming Special Issue:

### ***Power Electronic Converter Systems for Integration of Renewable Energy Sources***

Guest Editors: Dr Rajat Majumder, SIEMENS Energy Inc, USA and Dr Balarko Chaudhuri, Imperial College London, UK



## FREQUENCY INCREASE

**Frequency:** 16 issues

**ISSN (print):** 1751-8687

**ISSN (online):** 1751-8695

**Impact Factor:** 1.307

**Print & Online price:** £1,251 • \$2,364

**Corporate price:** POA

**Packages:** IET Complete Collection;  
Energy Engineering

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# IET Power Electronics

## EDITOR-IN-CHIEF

Professor Volker Pickert, Newcastle University, UK

## DEPUTY EDITOR-IN-CHIEF

Dr Mohamed Dahidah, Newcastle University, UK

### Journal Scope

IET *Power Electronics* aims to attract original research papers, short communications, review articles and power electronics related educational studies. The scope covers applications and technologies in the field of power electronics with special focus on cost-effective, efficient, power dense, environmental friendly and robust solutions, which includes:

#### Applications

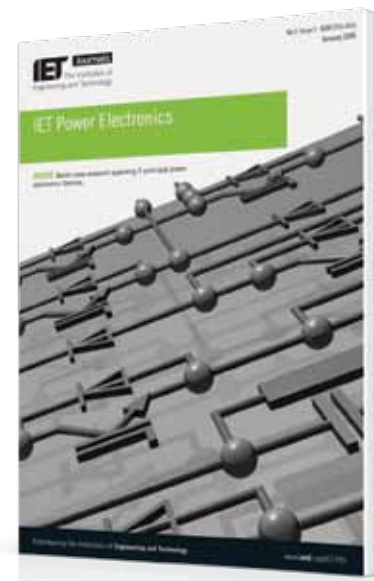
Electric drives/generators, renewable energy, industrial and consumable applications (including lighting, welding, heating, sub-sea applications, drilling and others), medical and military apparatus, utility applications, transport and space application, energy harvesting, telecommunications, energy storage management systems, home appliances.

#### Technologies

- **Circuits:** all type of converter topologies for low and high power applications including but not limited to: inverter, rectifier, dc/dc converter, power supplies, UPS, ac/ac converter, resonant converter, high frequency converter, hybrid converter, multilevel converter, power factor correction circuits and other advanced topologies.
- **Components and Materials:** switching devices and their control, inductors, sensors, transformers, capacitors, resistors, thermal management, filters, fuses and protection elements and other novel low-cost efficient components/materials.
- **Control:** techniques for controlling, analysing, modelling and/or simulation of power electronics circuits and complete power electronics systems.
- **Design/Manufacturing/Testing:** new multi-domain modelling, assembling and packaging technologies, advanced testing techniques.
- **Environmental Impact:** Electromagnetic Interference (EMI) reduction techniques, Electromagnetic Compatibility (EMC), limiting acoustic noise and vibration, recycling techniques, use of non-rare material.
- **Education:** teaching methods, programme and course design, use of technology in power electronics teaching, virtual laboratory and e-learning and fields within the scope of interest.

### Readership

IET *Power Electronics* provides a platform for researchers/developers within the industrial and the higher education community wanting to learn the latest worldwide trends in the multidisciplinary field of power electronics.



### FREQUENCY INCREASE

**Frequency:** 12 issues

**ISSN (print):** 1755-4535

**ISSN (online):** 1755-4543

**Impact Factor:** 1.318

**Print & Online price:** £752 • \$1,439

**Corporate price:** POA

**Packages:** IET Complete Collection;  
Energy Engineering

[www.ietdl.org/IET-PEL](http://www.ietdl.org/IET-PEL)

# IET Renewable Power Generation

EDITOR-IN-CHIEF

Professor David Infield, University of Strathclyde, UK

## Journal Scope

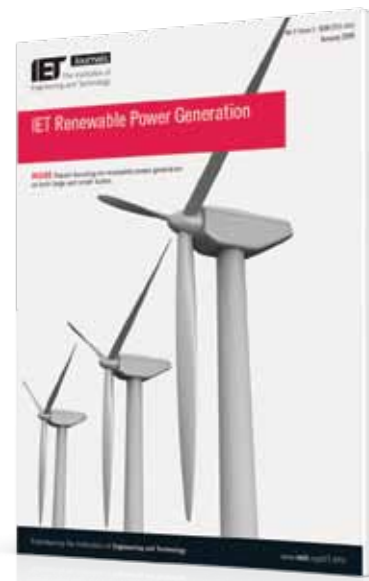
*IET Renewable Power Generation* provides a forum for the presentation of new research, development and applications of renewable power generation. It particularly focuses on research that explores issues where the characteristics of the renewable energy source impact on the power conversion and where the wider system control or operation are central to the challenge of integration. It also covers demonstrations and experimentally based research.

The journal is technology focused, covering design, demonstration, modelling and analysis, and occasionally also publishes papers dealing with techno-economic issues.

*IET Renewable Power Generation* brings together the topics of renewable energy technology, power generation and systems integration. Specific technology areas covered by the journal include: wind power technology and systems; photovoltaics; solar thermal power generation; geothermal energy; fuel cells; wave power; marine current energy and biomass conversion.

## Readership

*IET Renewable Power Generation* is essential reading for energy and power engineers, and all those interested in renewable energy technologies, who want to keep up-to-date with the latest research and developments in the field.



**Frequency:** 8 issues

**ISSN (print):** 1752-1416

**ISSN (online):** 1752-1424

**Impact Factor:** 2.280

**Print & Online price:** £466 • \$897

**Corporate price:** POA

**Packages:** IET Complete Collection;  
Energy Engineering

[www.ietdl.org/IET-RPG](http://www.ietdl.org/IET-RPG)



See the Renewable Energy section of our **Books 2015 Catalogue** for other titles of interest.

# IET Electrical Systems in Transportation

## EDITOR-IN-CHIEF

**Professor Sandy Smith, University of Manchester, UK**

## ASSOCIATE EDITOR:

**Dr Stuart Galloway, University of Strathclyde, UK**

### Journal Scope

IET *Electrical Systems in Transportation* covers all aspects of electrical power systems in modern transport applications including generation, storage, distribution and utilisation.

IET *Electrical Systems in Transportation's* coverage extends to all sectors of transportation: aerospace, marine (including sub-sea), automotive or land-based and rail. The central theme focuses on the system and sub-system aspects of electrical energy including system architectures and integration, energy management, control and protection.

- Energy sources: Batteries, fuel cells, generators
- Energy storage: Capacitors, flywheels, SMES
- Energy management: Control, protection, condition-monitoring, fault-tolerance and re-configuration
- System architectures and integration issues
- Energy distribution: Cabling, connectors, switchgear
- Electro-mechanical energy conversion: Motors, actuation systems
- Starter/generator systems
- Aerospace electrical technologies: Civil, defence, UAVs
- Electric/fuel cell/hybrid vehicles
- Marine propulsion, drives and power systems: Ships, submarines, submersibles
- Automotive systems
- Railway systems: Overground, underground, light-rail, tram

### Readership

This journal will be of interest to electrical systems engineers in all sectors of transportation (aerospace, marine (including sub-sea), automotive or land-based and rail).

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**Frequency:** 4 issues

**ISSN (print):** 2042-9738

**ISSN (online):** 2042-9746

**Print & Online price:** £501 • \$944

**Corporate price:** POA

**Packages:** IET Complete Collection; Transport

**[www.ietdl.org/IET-EST](http://www.ietdl.org/IET-EST)**

# IET Intelligent Transport Systems

EDITOR-IN-CHIEF

Dr Frank Lai, University of Leeds, UK

## Journal Scope

IET *Intelligent Transport Systems* is an interdisciplinary journal devoted to research into the practical applications of ITS and infrastructures.

This journal covers many topics including the following:

- Information collection and processing
- In-vehicle ITS, safety and vulnerable road user aspects
- ITS aspects of electric vehicles
- Public transport
- Demand management and electronic payment systems
- Traffic management
- Fleet and public transport logistics
- Emergency and incident management
- Policy and institutional issues
- Interoperability, standards and architectures
- Deployment and evaluation
- Sustainability and environmental issues
- Funding scenarios
- Enforcement
- Human machine interaction
- Education, training and outreach
- Deployments with enabling technologies

## Readership

This practical journal is invaluable for engineers and academics, with interests in the wide-ranging applications of ITS and infrastructures, who want to stay up-to-date with the latest research and developments in the field.

### Upcoming Special Issue:

#### ***Energy Issues in Transport Systems and the Role of ITS***

Professor Bruno Dalla Chiara and Professor Geoff Rose, Monash University, Australia



### FREQUENCY INCREASE

**Frequency:** 10 issues

**ISSN (print):** 1751-956X

**ISSN (online):** 1751-9578

**Impact Factor:** 0.954

**Print & Online price:** £606 • \$1,164

**Corporate price:** POA

**Packages:** IET Complete Collection;  
Transport

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