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Information Society and Media

SEVENTH FRAMEWORK
PROGRAMME

Network of Excellence

NEWCOM#

Network of Excellence in Wireless Communications#

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WP3.3 – Journal special issues, books and book chapters

D33.1
Report on relevant journals, editors, topics and main contributors

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Abstract:	This deliverable is intended to contain the list and the description of journals (EURASIP, IEEE and others) which are of interest for special issues organized by NEWCOM# researchers, or to which NEWCOM# could contribute. It also provides a list of main book and book chapters publishers (e.g. Wiley, Springer, Cambridge University Press, etc.) with the cooperation of which NEWCOM# authors could disseminate their production. It finally provides a preliminary list of topics that have been identified as potential topics for special issues to be launched by NEWCOM# members as well as the associated WP/tasks.
Keywords:	Journals, journal special issues, scientific publishers, research topic

Authors

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Executive Summary

Among the various tools used in the scientific community to disseminate the research results, special issues in journals are nowadays well used and well understood.
This deliverable offers a systematic list of international journals that might be possible candidates to host special issues.

In the complete list provided and discussed in this deliverable, the following journals are privileged candidates to host such special issues:
- EURASIP Journal on Advances in Signal Processing
- EURASIP Journal on Wireless Communications and Networking
- EURASIP Signal Processing
- IEEE Communications Magazine
- IEEE Journal on Selected Areas in Communications
- IEEE Journal of Selected Topics in Signal Processing
- IEEE Signal processing magazine
- IEEE Transactions on Information Theory
- IEEE Transactions on Signal Processing
- IEEE Transactions on Vehicular Technology
- Wireless Personal Communications.

This list will be used
- to monitor call for papers for special issues that could be launched by non-NEWCOM# researchers, and to which NEWCOM# researchers could contribute papers;
- to decide to which journal a proposal for a special issue, co-guest edited by at least one NEWCOM# researcher, could be submitted.

The deliverable also lists a number of hot topics (e.g. small cell networks, cooperative networking, energy efficient communications) that have been identified, whose scope and research mass inside NEWCOM# could lead to the proposal of a special issue from one or several NEWCOM# researcher(s).

The main topics identified are:
- Advances in cooperative networking
- Strategic Learning and Game Theoretic Approaches for Wireless Networks
- Theories/Methods for Spectrum and Energy Efficient Communications
- Cooperative Localization and Positioning Techniques
- Mobile Clouds and Opportunistic Networking
- Advances in Wireless Cognitive Radio
- Flexible Radio Design and Platforms
- Theories/Methods for Large Networks
- Small cells networks
- Advances for low-interference radio interfaces.

As book and book chapters are also targeted by NEWCOM#, a list of main actors, like Wiley, Cambridge University Press, Springer, etc., for (e)book publishing is also provided.

Finally, a short description of the Newcom# website section devoted to journal special issues is presented.

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List of Acronyms

3GPP	3rd Generation Partnership Project
ASIC	Application-Specific Integrated Circuit
ATM	Asynchronous Transfer Mode
CAD	Computer Aided Design
CfP	Call for Papers
CR	Cognitive Radio
DSL	Digital Subscriber Line
DSP	Digital Signal Processing
FBMC	Filter-Banks Multi-Carrier
GNSS	Global Navigation Satellite System
GPS	Global Positioning System
HDTV	High Definition TeleVIsion
HW	Hardware
IMT	International Mobile Telecommunications
IP	Internet Protocol
IQ	In-phase/Quadrature
ISDN	Integrated Services Digital Network
JCR	Journal of Citation Reports
LAN	Local Area Network
MAC	Media Access Control
MAN	Metropolitan Area Network
MEM	Middeck Electronics Module
MIMO	Multiple-Input Multiple-Output
OFDM	Orthogonal frequency-division multiplexing
PCS	Personal Communication System
R&D	Research & Development
RF	Radio Frequency
RFID	Radio Frequency Identification
SCN	Small Cell Network
SDH	Synchronous Digital Hierarchy
SI	Special Issue
SW	Software
TCP	Transmission Control Protocol
VLSI	Very Large Scale Integration
VoD	Video on Demand
VoIP	Voice over IP
WAN	Wide Area Network
WDM	Wavelength Division Multiplexing
WiMAX	Worldwide Interoperability for Microwave Access

1. Introduction

In NEWCOM#, WP3.3 deals with «Journal special issues, books and book chapters ».

These tools have been identified as possible instruments to disseminate the research results produced by NEWCOM# researchers, as well as to increase the recognition of the network within the related international research community. The objectives of this WP3.3 are therefore as follows:

- To foster the design and implementation of Journal Special Issues in international peer reviewed journals, dealing with the main research topics addressed in NEWCOM#.
- To stimulate the participation of NEWCOM# researchers as prospective authors in the journal special issues organized either by NEWCOM# or by third parties.
- To trigger and organize the writing of book chapters and books. Book chapters will be devoted to the state-of-the-art and the recent advances of specific scientific and technological topics addressed by NEWCOM# researchers while books will be reserved for the results of Track 1 of the project.

In order to achieve these objectives, the activities in WP3.3 are organized in three different tasks:

- Task 3.3.1 Identification of topics for SIs, book chapters, books, journals, and monitoring of CfPs;
- Task 3.3.2 Organization of SIs and writing of books and book chapters;
- Task 3.3.3 Promotion activities.

This first deliverable, entitled « Report on relevant journal, editors, topics and main contributors » is the outcome of the first six months of work and is mainly related to the first task mentioned above.
This deliverable is intended
- To provide NEWCOM# researchers who would like to propose and organize a special issue, with a list of major journals using this type of instrument;
- To provide all NEWCOM# researchers with this list so that they can keep track of the possible special issues launched by other colleagues of the scientific community, not belonging to NEWCOM#, and to which they could contribute a paper; this monitoring of launched special issues is implemented in task 3.3.3 and related information will be posted on the NEWCOM# website;
- To provide NEWCOM# track-1 researchers with a list of publishers who could be potential candidates for e-publishing book chapters, and/or (e)-publishing complete books.

The rest of the document is organized as follows. Section 2 provides a meticulous list of journals allowing the publication of SIs. 34 journals covering all the main research areas in Newcom# have been identified and methodically described. Section 3 enumerates a number of hot topics permeating various WPs in Newcom#. Section 4 brings to attention of the reader an exhaustive list of publishers that might be potential candidates for publishing book and book chapters. Finally, section 5 presents the area of Newcom# website devoted to journal special issues while section 6 summarizes some concluding remarks.

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2. Identification of Journals

2.1 Main scope of this section

This section offers a usable tool to identify and evaluate those journals allowing publication of special issues in the main research areas covered by Newcom#[1]. For each journal, a general abstract and the main areas of interest, together with the available statistical information based on citation data, are given. In order to facilitate the launch of Special Journal Issues inspired by the Newcom# activities, when available, we also provide the name(s) of contact person(s) in the journal editorial board who is involved in the network of excellence.

If not explicitly mentioned in the relevant fields of the table, the basic citation data provided here have been taken from the Journal of Citations Report (JCR) of the Healthcare & Science division of Thomson Reuters, for year 2011.

2.2 List of journals

This subsection provides a list of world's leading journals in alphabetical order, together with the essential information required to develop a special issue in a given topic.

2.2.1 Annals of Telecommunications

Annals of Telecommunications is an international journal publishing original peer reviewed papers in the field of telecommunications as well as brief reports on research projects or experimentations. The large spectrum of addressed topics accounts for the rapid convergence through telecommunications of the underlying technologies in computers, communications, content management towards the emergence of the information and knowledge society.

Field of interest: digital communications; communication networks and the internet; software; protocols and services; uses and economics.

Journal Title	Annals of Telecommunications
Publisher	Institut Mines-Télécom/Springer
ISSN	0003-4347
URL	http://www.annales-des-telecommunications.com/index.php
Editor-in-chief	Guy Pujolle
Issues per year	6
Type of papers	Transactions
2011 total cites	N/A
Impact factor	0.633 (2011)
Eigenfactor score	N/A
Article influence score	N/A
Tool for managing reviews in special issues	Editorial Manager from Springer
Contact person from NEWCOM#	N/A

Table 2.1. Annals of Telecommunications

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[1] This list is an up-to-date revision of the list of journals originally proposed in the Newcom++ deliverable : *DS2.1 - Report on relevant journals, topics and tools,* available at http://130.192.85.4:8080/Plone/public-deliverables/spreading.

2.2.2 Elsevier Ad Hoc Networks

The *Ad Hoc Networks* is an international and archival journal providing a publication vehicle for complete coverage of all topics of interest to those involved in ad hoc and sensor networking areas. The *Ad Hoc Networks* considers original, high quality and unpublished contributions addressing all aspects of ad hoc and sensor networks.

Field of Interest : Mobile and Wireless Ad Hoc Networks; Sensor Networks; Wireless Local and Personal Area Networks; Home Networks; Ad Hoc Networks of Autonomous Intelligent Systems; Novel Architectures for Ad Hoc and Sensor Networks; Self-organizing Network Architectures and Protocols; Transport Layer Protocols; Routing protocols (unicast, multicast, geocast, etc.); Media Access Control Techniques; Error Control Schemes; Power-Aware, Low-Power and Energy-Efficient Designs; Synchronization and Scheduling Issues; Mobility Management; Mobility-Tolerant Communication Protocols; Location Tracking and Location-based Services; Resource and Information Management; Security and Fault-Tolerance Issues; Hardware and Software Platforms, Systems, and Testbeds; Experimental and Prototype Results; Quality-of-Service Issues; Cross-Layer Interactions; Scalability Issues; Performance Analysis and Simulation of Protocols.

Journal Title	Ad Hoc Networks
Publisher	Elsevier
ISSN	1570-8705
URL	http://www.journals.elsevier.com/ad-hoc-networks/
Editor-in-chief	I.F. Akyildiz
Issues per year	8
Type of papers	Transactions
2011 total cites	N/A
Impact factor	2.110
Eigenfactor score	N/A
Article influence score	N/A
Tool for managing reviews in special issues	http://ees.elsevier.com/adhoc/
Contact person from NEWCOM#	N/A

Table 2.2. Ad Hoc Networks

2.2.3 Elsevier Computer Communications Journal

Computer Communications is a peer-reviewed international journal that publishes high-quality scientific articles (both theory and practice) and survey papers covering all aspects of future computer communication networks (on all layers, except the physical layer), with a special attention to the evolution of the Internet architecture, protocols, services, and applications.

Field of interest: emerging technologies for next generation networks; LAN/MAN/WAN; future Internet architecture, protocols and services; content- and service-centric architectures; mobile and ubiquitous networks; self organizing/autonomic networking; green networking; peer-to-peer, overlay, and content distribution networks; internet content search; QoS and multimedia networking; opportunistic networking; on-line social networks; internet of things; public safety communication networks; network applications (web, multimedia streaming, VoIP, gaming, etc.); trust, security and privacy in computer and communication networks; modelling, measurement and simulation; complex network models; internet socio-economic models; experimental test-beds and research platforms; algorithmic aspects of communication networks; network scaling and limits.

Journal Title	Computer Communications
Publisher	Elsevier
ISSN	0140-3664
URL	http://ees.elsevier.com/comcom/
Editor-in-chief	Marco Conti
Issues per year	18
Type of papers	Transactions
2011 total cites	2350
Impact factor	1.044
Eigenfactor score	0.01067
Article influence score	0.399
Tool for managing reviews in special issues	http://ees.elsevier.com/comcom/
Contact person from NEWCOM#	N/A

Table 2.3. Computer Communications

2.2.4 Elsevier Computers and Electrical Engineering Journal

Computers & Electrical Engineering provides rapid publication of topical research into the integration of computer technology and computational techniques with electrical and electronic systems. The journal publishes papers featuring novel implementations of computers and computational techniques in areas like signal and image processing, high-performance computing, parallel processing, and communications. Special attention will be paid to papers describing innovative architectures, algorithms, and software tools.

Field of interest: applications of high-performance computing and novel computing systems; internet-based, multimedia, and wireless networks and applications; communications, especially wireless; signal processing architectures, algorithms, and applications; green technologies in information, computing, and communication systems; multi-disciplinary areas, including robotics, embedded systems, and security.

Journal Title	Computers and Electrical Engineering
Publisher	Pergamon-Elsevier
ISSN	0045-7906
URL	http://www.elsevier.com/locate/inca/367
Editor-in-chief	Manu Malek
Issues per year	6
Type of papers	Transactions
2011 total cites	404
Impact factor	0.837
Eigenfactor score	0.00114
Article influence score	0.210
Tool for managing reviews in special issues	http://ees.elsevier.com/compeleceng/
Contact person from NEWCOM#	N/A

Table 2.4. Computers and Electrical Engineering

2.2.5 Elsevier Computer Networks

Computer Networks is an international, archival journal providing a publication vehicle for complete coverage of all topics of interest to those involved in the computer communications

networking area. The audience includes researchers, managers and operators of networks as well as designers and implementors.

Field of Interest : Communication Network Architectures; Communication Network Protocols; Network Services and Applications; Network Security and Privacy; Network Operation and Management; Discrete Algorithms and Discrete Modelling.

Journal Title	Computer Networks
Publisher	Elsevier
ISSN	1389-1286
URL	http://www.journals.elsevier.com/computer-networks/
Editor-in-chief	I.F. Akyildiz
Issues per year	18
Type of papers	Transactions
2011 total cites	3536
Impact factor	1.176
Eigenfactor score	0.01217
Article influence score	0.604
Tool for managing reviews in special issues	http://ees.elsevier.com/comnet/
Contact person from NEWCOM#	N/A

Table 2.5. Computer Networks

2.2.6 ETRI Journal

ETRI Journal publishes research papers in English in the fields of information, telecommunications, and electronics. With an international editorial committee and experts from around the world as reviewers, ETRI Journal publishes high-quality results on the latest and best developments from the global community. By attracting top researchers, ETRI Journal continues to improve the quality of its published papers and assure its position alongside prestigious international journals.

Field of interest: telecommunications basic technology; micro-electronics technology; network technology; radio & broadcasting technology; mobile telecommunications technology; computer & software technology; information technology management; information security.

Journal Title	ETRI Journal
Publisher	Electronics Telecommunications Research Inst
ISSN	1225-6463
URL	http://etrij.etri.re.kr
Editor-in-chief	Jongdae Kim
Issues per year	6
Type of papers	Transactions and Tutorial
2011 total cites	638
Impact factor	0.897
Eigenfactor score	0.00312
Article influence score	0.286
Tool for managing reviews in special issues	Manuscript Tracking System of ETRI Journal.
Contact person from NEWCOM#	N/A

Table 2.6. ETRI Journal

2.2.7 EURASIP Journal on Advances in Signal Processing

The aim of the *EURASIP Journal on Advances in Signal Processing* is to highlight the theoretical and practical aspects of signal processing in new and emerging technologies. The journal is directed as much at the practicing engineer as at the academic researcher. Authors of articles with novel contributions to the theory and/or practice of signal processing are welcome to submit their articles for consideration. All manuscripts undergo a rigorous review process. *EURASIP Journal on Advances in Signal Processing* employs a paperless, electronic review process to enable a fast and speedy turnaround in the review process.

Field of interest: signal processing theory, algorithms, architecture, design, and implementation; speech processing, coding, compression, and recognition; audio signal processing, coding, and compression; image/video processing, coding, compression, restoration, analysis and understanding, and communications; multimedia signal processing and technology; signal processing for communications and networking; statistical and adaptive signal processing; nonlinear signal processing techniques; signal processing design tools; signal processing for security, authentication, and cryptography; analogue signal processing; signal processing for smart sensor and systems.

Journal Title	EURASIP Journal on Advances in Signal Processing
Publisher	Springer
ISSN	1687-6180
URL	http://www.springer.com/engineering/signals/journal/13634
Editor-in-chief	Geert Leus
Issues per year	12
Type of papers	Transactions and Tutorial
2011 total cites	2113
Impact factor	0.811
Eigenfactor score	0.01200
Article influence score	0.481
Tool for managing reviews in special issues	SpringerOpen's online submission system
Contact person from NEWCOM#	N/A

Table 2.7. EURASIP Journal on Advances in Signal Processing

2.2.8 EURASIP Journal on Wireless Communications and Networking

The overall aim of the *EURASIP Journal on Wireless Communications and Networking* (EURASIP JWCN) is to bring together science and applications of wireless communications and networking technologies with emphasis on signal processing techniques and tools. It is directed at both practicing engineers and academic researchers. *EURASIP Journal on Wireless Communications and Networking* will highlight the continued growth and new challenges in wireless technology, for both application development and basic research. Articles should emphasize original results relating to the theory and/or applications of wireless communications and networking. Review articles, especially those emphasizing multidisciplinary views of communications and networking, are also welcome. *EURASIP Journal on Wireless Communications and Networking* employs a paperless, electronic submission and evaluation system to promote a rapid turnaround in the peer-review process.

Field of interest: antenna systems and design; channel modelling and propagation; coding for wireless systems; multiuser and multiple access schemes; optical wireless communications; resource allocation over wireless networks; security, authentication, and cryptography for wireless networks; signal processing techniques and tools; software and

cognitive radio; wireless traffic and routing; ultra wide-band systems; vehicular networks; wireless multimedia communication; wireless sensor networks; wireless system architectures and applications

Journal Title	EURASIP Journal on Wireless Communications and Networking
Publisher	Springer
ISSN	1687-1499
URL	http://www.springer.com/engineering/signals/journal/13638
Editor-in-chief	Luc Vandendorpe
Issues per year	12
Type of papers	Transactions and Tutorial
2011 total cites	936
Impact factor	0.873
Eigenfactor score	0.00686
Article influence score	0.442
Tool for managing reviews in special issues	SpringerOpen's online submission system
Contact person from NEWCOM#	C. Oestges, Jordi Pérez-Romero

Table 2.8. EURASIP Journal on Wireless Communications and Networking

2.2.9 EURASIP Signal Processing

Signal Processing incorporates all aspects of the theory and practice of signal processing (analogue and digital). It features original research work, tutorial and review articles, and accounts of practical developments. It is intended for a rapid dissemination of knowledge and experience to engineers and scientists working in the research, development or practical application of signal processing.

Field of interest: signal theory; stochastic processes; detection and estimation; spectral analysis; filtering; signal processing systems; software developments; image processing; pattern recognition; optical signal processing; digital signal processing; multi-dimensional signal processing; communication signal processing; biomedical signal processing; geophysical and astrophysical signal processing; earth resources signal processing; acoustic and vibration signal processing; data processing; remote sensing; signal processing technology; speech processing; radar signal processing; sonar signal processing; industrial applications; new applications.

Journal Title	EURASIP Signal Processing
Publisher	Elsevier
ISSN	0165-1684
URL	http://www.elsevier.com/locate/sigpro
Editor-in-chief	Bjorn Ottersten
Issues per year	12
Type of papers	Transactions
2011 total cites	4618
Impact factor	1.503
Eigenfactor score	0.01609
Article influence score	0.631
Tool for managing reviews in special issues	http://ees.elsevier.com/sigpro/
Contact person from NEWCOM#	Michel Kieffer

Table 2.9. EURASIP Signal Processing

2.2.10 IEEE Aerospace and Electronic Systems Magazine

The IEEE Aerospace and Electronic Systems Magazine is a monthly magazine that publishes articles concerned with the various aspects of systems for space, air, ocean, or ground environments as well as news and information of interest to IEEE Aerospace and Electronic Systems Society members. The IEEE Aerospace and Electronic Systems Magazine aim at informing the readers of technologies, state of the art, design trades, etc. so that they will gain insights into a field heretofore unknown to them. The boundaries of acceptable subject matter has been intentionally left flexible so that the Magazine can follow the research activities, technology applications and future trends to better meet the needs of the members of the IEEE Aerospace and Electronic Systems Society.

Field of interest: organization, systems engineering, design, development, integration, and operation of complex systems for space, air, ocean, or ground environments. These systems include but are not limited to navigation, avionics, mobile electric power and electronics, radar, sonar, telemetry, military, law-enforcement, automatic test, simulators, and command and control.

Journal Title	IEEE Aerospace and Electronic Systems Magazine
Publisher	IEEE
ISSN	0885-8985
URL	http://ieee-aess.org/publications/systems-magazine/systems-magazine
Editor-in-chief	Teresa Pace
Issues per year	12
Type of papers	Magazine
2011 total cites	N/A
Impact factor	0.297
Eigenfactor score	0.00115
Article influence score	0.173
Tool for managing reviews in special issues	N/A
Contact person from NEWCOM#	Carles Fernández-Prades (carles.fernandez@cttc.cat), Associate Editor for Navigation and Position

Table 2.10. IEEE Aerospace and Electronic Magazine

2.2.11 IEEE Communications Magazine

The IEEE Communications Magazine delivers practical, current information on hot topics, implementations, and best industry practices. Considered by many to be their most important member benefit, monthly articles feature in-depth descriptions of technologies, systems, services, market trends, development methods, regulatory and policy issues, and significant global events. These articles are complemented by a variety of departments, including: The Presidents Page, Conference Calendar, Book Reviews, the Global Communications Newsletter, Society News, History of Communications, Certification Corner, and more.

Field of interest: lightwave telecommunications; high-speed data communications; personal communications systems (PCS); ISDN, and more; special feature technical articles and monthly departments; book reviews; conferences; short courses; standards; governmental regulations and legislation; new products; Society news such as administration and elections.

Journal Title	IEEE Communications Magazine
Publisher	IEEE
ISSN	0163-6804
URL	http://www.comsoc.org/livepubs/ci1/index.html
Editor-in-chief	Sean Moore
Issues per year	12
Type of papers	Magazine
2011 total cites	6016
Impact factor	3.785
Eigenfactor score	0.02626
Article influence score	1.624
Tool for managing reviews in special issues	Manuscript Central http://commag-ieee.manuscriptcentral.com/.
Contact person from NEWCOM#	N/A

Table 2.11. IEEE Communications Magazine

2.2.12 IEEE Journal on Selected Areas in Communications

The IEEE Journal on Selected Areas in Communications (J-SAC) devotes each issue to a specific technical topic and thus provides J-SAC readers with a collection of up-to-date papers on that topic. These issues are valuable to the research community and become valuable references. The technical topics covered by J-SAC issues span the entire field of communications and networking. J-SAC publishes only papers that are submitted in response to a Call-for-Papers. These calls are published in J-SAC issues and other publications of the IEEE Communications Society as appropriate to the subject area of the call. Topics for J-SAC issues are determined by the J-SAC Editorial Board after review of proposals submitted by interested parties. All are invited to submit proposals

Field of Interest: speech and image coding; medical communications; HDTV and digital video communications; B-ISDN applications and economics; wireless personal communications; advances in satellite communication; fading channels and equalization; spread spectrum.

Journal Title	IEEE Journal on Selected Areas in Communications
Publisher	IEEE
ISSN	0733-8716
URL	http://www.jsac.ucsd.edu/
Editor-in-chief	Martha Steenstrup
Issues per year	12
Type of papers	Transactions
2011 total cites	9949
Impact factor	3.413
Eigenfactor score	0.04164
Article influence score	2.711
Tool for managing reviews in special issues	Up to guest editors
Contact person from NEWCOM#	N/A

Table 2.12. IEEE Journal on Selected Areas in Communications

2.2.13 IEEE Journal of Selected Topics in Signal Processing

Journal of Selected Topics in Signal Processing (J-STSP) solicits special issues on topics that cover the entire scope of the IEEE Signal Processing Society. J-STSP only publishes

papers that are submitted in response to a specific Call-for-Papers. These calls are listed on the J-STSP website, and instructions for submitting papers to a particular special issue can be found on the Information for Authors webpage. The procedure for preparing and submitting a proposal for a special issue can be found on the Submitting a Proposal webpage. All special issue proposals are evaluated by our Senior Editorial Board for relevance, timeliness, technical merit, impact, and general interest to the Society.

Field of interest: theory and application of filtering, coding, transmitting, estimating, detecting, analysing, recognizing, synthesizing, recording, and reproducing signals by digital or analogue devices or techniques.

Journal Title	IEEE Journal of Selected Topics in Signal Processing
Publisher	IEEE
ISSN	1932-4553
URL	http://www.signalprocessingsociety.org/publications/periodicals/jstsp/
Editor-in-chief	Fernando Pereira
Issues per year	8
Type of papers	Transactions
2011 total cites	1276
Impact factor	2.880
Eigenfactor score	0.01333
Article influence score	N/A
Tool for managing reviews in special issues	J-STSP Web Submission System.
Contact person from NEWCOM#	N/A

Table 2.13. IEEE Journal of Selected Topics in Signal Processing

2.2.14 IEEE Signal processing magazine

IEEE Signal Processing Magazine publishes tutorial-style articles on signal processing research and applications, as well as columns and forums on issues of interest. Its coverage ranges from fundamental principles to practical implementation, reflecting the multidimensional facets of interests and concerns of the community. Its mission is to bring up-to-date, emerging and active technical developments, issues, and events to the research, educational, and professional communities. It is also the main Society communication platform addressing important issues concerning all members.

Field of interest: The theory and application of filtering, coding, transmitting, estimating, detecting, analysing, recognizing, synthesizing, recording, and reproducing signals by digital or analogue devices or techniques.

Journal Title	IEEE Signal Processing Magazine
Publisher	IEEE
ISSN	1053-5888
URL	http://www.signalprocessingsociety.org/publications/periodicals/spm/
Editor-in-chief	Abdelhak Zoubir
Issues per year	6
Type of papers	Magazine
2011 total cites	3599
Impact factor	5.860
Eigenfactor score	0.01729
Article influence score	3.181
Tool for managing reviews in special issues	Manuscript Central http://commag-ieee.manuscriptcentral.com/.
Contact person from NEWCOM#	N/A

Table 2.14. IEEE Signal Processing Magazine

2.2.15 IEEE Transactions on Antennas and Propagation

Since 1952 the IEEE Transactions on Antenna and Propagation has delivered many thousands of articles on a wide range of topics of interest to specialists, practising engineers, educators and students in the field of interest of the IEEE Antennas & Propagation Society. The Transactions publishes 12 issues per year and occasional Special Issues amounting to about 4000 pages annually.

Field of Interest: antennas, including analysis, design, development, measurement, and testing; radiation, propagation, and the interaction of electromagnetic waves with discrete and continuous media; and applications and systems pertinent to antennas, propagation, and sensing, such as applied optics, millimeter- and sub-millimeter-wave techniques, antenna signal processing and control, radio astronomy, and propagation and radiation aspects of terrestrial and space-based communication, including wireless, mobile, satellite, and telecommunications.

Journal Title	IEEE Transactions on Antennas and Propagation
Publisher	IEEE
ISSN	0018-926X
URL	http://www.ict.csiro.au/aps/
Editor-in-chief	Michael Jensen
Issues per year	12
Type of papers	Transactions
2011 total cites	15952
Impact factor	2.151
Eigenfactor score	0.03722
Article influence score	0.822
Tool for managing reviews in special issues	Manuscript Central
Contact person from NEWCOM#	N/A

Table 2.15. IEEE Transactions on Antennas and Propagation

2.2.16 IEEE Transactions on Broadcasting

The IEEE Transactions on Broadcasting serves the broadcast technology profession worldwide by publishing original, high-quality papers that present significant contributions to broadcast technology. The contents of the IEEE Transactions on Broadcasting are intended

to be intelligible and interesting to non-specialists as well as to experts in the field of the particular contribution. Accordingly, authors are requested to submit their work beforehand to the scrutiny of a colleague who is not familiar with the details of the work.

Field of Interest: devices, equipment, techniques and systems related to broadcast technology, including the production, distribution, transmission, and propagation aspects

Journal Title	IEEE Transactions on Broadcasting
Publisher	IEEE
ISSN	0018-9316
URL	http://bts.ieee.org/ieee-transactions-on-broadcasting.html
Editor-in-chief	Yiyan Wu
Issues per year	4
Type of papers	Transactions
2011 total cites	1316
Impact factor	1.703
Eigenfactor score	0.00446
Article influence score	0.615
Tool for managing reviews in special issues	N/A (via e-mail)
Contact person from NEWCOM#	N/A

Table 2.16. IEEE Transactions on Broadcasting

2.2.17 IEEE Transactions on Information Theory

The IEEE Transactions on Information Theory publishes papers dealing with the transmission, processing, and utilization of information. Papers published in the IEEE Transactions on Information Theory should contain a strong conceptual and/or analytical contribution.

Field of Interest: Shannon theory; coding theory and techniques; data compression; sequences; signal processing; detection and estimation; pattern recognition; learning and inference; communications and communication networks; complexity and cryptography; quantum information theory and coding.

Journal Title	IEEE Transactions on Information Theory
Publisher	IEEE
ISSN	0018-9448
URL	http://www.nari.ee.ethz.ch/commth/trans-it/index.php
Editor-in-chief	Helmut Bölcskei
Issues per year	12
Type of papers	Transactions
2011 total cites	27909
Impact factor	3.009
Eigenfactor score	0.07729
Article influence score	1.897
Tool for managing reviews in special issues	Manuscript Central
Contact person from NEWCOM#	N/A

Table 2.17. IEEE Transactions in Information Theory

2.2.18 IEEE Transactions on Signal Processing

The IEEE Transactions on Signal Processing covers novel theory, algorithms, performance analyses and applications of techniques for the processing, understanding, learning, retrieval, mining, and extraction of information from signals. The term "signal" includes, among others, audio, video, speech, image, communication, geophysical, sonar, radar, medical and musical signals.

Field of interest: The theory and application of filtering, coding, transmitting, estimating, detecting, analysing, recognizing, synthesizing, recording, and reproducing signals by digital or analogue devices or techniques.

Journal Title	IEEE Transactions on Signal Processing
Publisher	IEEE
ISSN	1053-587x
URL	http://www.signalprocessingsociety.org/publications/periodicals/tsp/
Editor-in-chief	Zhi-Quan (Tom) Luo
Issues per year	12
Type of papers	Transactions
2011 total cites	16727
Impact factor	2.628
Eigenfactor score	0.05716
Article influence score	1.247
Tool for managing reviews in special issues	Scholar One / Manuscript Central
Contact person from NEWCOM#	N/A

Table 2.18. IEEE Transactions on Signal Processing

2.2.19 IEEE Transactions on Vehicular Technology

The IEEE Transactions on Vehicular Technology (TVT) is a scholarly journal dedicated solely to vehicular technology. It publishes high-quality technical manuscripts on advances in the state-of-the-art of vehicular technology. In addition to papers presenting original research, the TVT publishes surveys and tutorials on topics of a general interest to its readership. Submissions on emerging areas in vehicular technology are encouraged. To better serve the community, the journal has been publishing special sections, focusing on vehicular electronics and intelligent transportation systems, and some topics that are of interest to the mobile communications and networking community.

Field of interest: mobile communications; transportation systems; vehicular electronics.

Journal Title	IEEE Transactions on Vehicular Technology
Publisher	IEEE
ISSN	0018-9545
URL	http://transactions.vtsociety.org/
Editor-in-chief	Weihua Zhuang
Issues per year	9
Type of papers	Transactions
2011 total cites	6506
Impact factor	1.921
Eigenfactor score	0.02724
Article influence score	0.798
Tool for managing reviews in special issues	Scholar One / Manuscript Central
Contact person from NEWCOM#	N/A

Table 2.19. IEEE Transactions on Vehicular Technology

2.2.20 IEEE Vehicular Technology Magazine

The IEEE Vehicular Technology Magazine is a new quarterly magazine aiming to become an established international technical reference in its main areas of interest. The magazine expands the objectives of the IEEE Vehicular Technology Society and its successful VTC conferences by providing the society's members with a high-quality publication including updated information on the most promising technologies in its main areas of interest. Together with original technical papers, the magazine features editorial columns describing the latest news and developments in mobile radio, automotive electronics, transportation systems, standards, educational activities and society news.

Field of interest: mobile radio; automotive electronics; transportation systems.

Journal Title	IEEE Vehicular Technology Magazine
Publisher	IEEE
ISSN	1556-6072
URL	http://www.ieeevtc.org/vtmagazine/index.php
Editor-in-chief	Charles Backoff
Issues per year	4
Type of papers	Magazine
2011 total cites	282
Impact factor	1.226
Eigenfactor score	0.00230
Article influence score	1.090
Tool for managing reviews in special issues	Trackchair
Contact person from NEWCOM#	Jordi Pérez-Romero

Table 2.20. IEEE Vehicular Technology Magazine

2.2.21 IEEE Wireless Communications

IEEE Wireless Communications is designed for audience working in the wireless communications and networking communities. It covers technical, policy and standard issues relating to wireless communications in all media (and combinations of media), and at all protocol layers. All wireless/mobile communications, networking, computing and services will be covered. Each issue of this interdisciplinary magazine provides tutorial articles of high quality and depth concerning the revolutionary technological advances in wireless/mobile communications, networking and computing.

Field of interest: personal portable telephones, multimedia devices, digital assistants, and communicating palmtop computers; Registration and handoff protocols, messaging, and communications and computing requirements; Network control and management for protocols associated with routing and tracking of mobile users; Location-independent numbering plans for movable personal services; Personal profiles, personalized traffic filtering, and other database-driven aspects of personal communications; Link access technologies and protocols; Radio and infrared channel characterization and other microcell-based personal communication systems; Satellite Systems and Global Personal Communications; Traffic management and performance issues; Policy issues in spectrum allocation, industry structure, and technology evolution; Applications, case studies, and field experience; Intelligent vehicle highway systems, Guides to the literature.

Journal Title	IEEE Wireless Communications
Publisher	IEEE
ISSN	1536-1284
URL	http://www.comsoc.org/wirelessmag
Editor-in-chief	Hsiao-Hwa Chen
Issues per year	6
Type of papers	Magazine
2011 total cites	1738
Impact factor	2.575
Eigenfactor score	0.00950
Article influence score	1.658
Tool for managing reviews in special issues	Scholar One / Manuscript Central
Contact person from NEWCOM#	N/A

Table 2.21. IEEE Wireless Communications

2.2.22 IET Circuits, Devices and Systems

IET Circuits, Devices & Systems was formerly known as IEE Proceedings Circuits, Devices and Systems. It is one of the journals published by IET. The main topics of this journal are, as the name suggests, circuits, devised and systems

Field of interest: 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, minimization of circuits and CAD for VLSI; novel or improved electronic devices for both traditional and emerging technologies including nanoelectronics and MEMs, device and process characterization, device parameter extraction schemes; mathematics of circuits and systems theory; test and measurement techniques involving electronic circuits, circuits for industrial applications, sensors and transducers.

Journal Title	IET Circuits, Devices and Systems
Publisher	IET
ISSN	1751-858x
URL	http://www.ietdl.org/IET-CDS
Editor-in-chief	Asim Ray
Issues per year	6
Type of papers	Transactions
2011 total cites	181
Impact factor	0.547
Eigenfactor score	0.00129
Article influence score	0.317
Tool for managing reviews in special issues	Scholar One / Manuscript Central
Contact person from NEWCOM#	N/A

Table 2.22. IET Circuits, Devices and Systems

2.2.23 IET Communications

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.

Field of Interest: coding and communication theory; modulation and signal design; wired, wireless and optical communication; communication system.

Journal Title	IET Communications (formerly IEE Proceedings Communications)
Publisher	IET
ISSN	1751-8628
URL	http://www.ietdl.org/IET-COM
Editor-in-chief	Xuemin (Sherman) Shen
Issues per year	18
Type of papers	Transactions
2011 total cites	642
Impact factor	0.829
Eigenfactor score	0.00353
Article influence score	0.269
Tool for managing reviews in special issues	Manuscript central
Contact person from NEWCOM#	N/A

Table 2.23. IET Communications

2.2.24 International Journal of Communication Systems

The *International Journal of Communication Systems* provides a forum for R&D, open to researchers from all types of institutions and organizations worldwide, aimed at the increasingly important area of communication technology. The Journal's emphasis is particularly on the issues impacting behaviour at the system, service and management levels. Published twelve times a year, it provides coverage of advances that have a significant potential to impact the immense technical and commercial opportunities in the communications sector. The *International Journal of Communication Systems* strives to

select a balance of contributions that promotes technical innovation allied to practical relevance across the range of system types and issues.

Field of interest: transmission/Switching/Distribution technologies (ATM, SDH, TCP/IP, routers, DSL, cable modems, VoD, VoIP, WDM, etc.); system control, network/service management; network and Internet protocols and standards; client-server, distributed and Web-based communication systems; broadband and multimedia systems and applications, with a focus on increased service variety and interactivity; trials of advanced systems and services; their implementation and evaluation; novel concepts and improvements in technique; their theoretical basis and performance analysis using measurement/testing, modelling and simulation; performance evaluation issues and methods.

Journal Title	International Journal of Communication Systems
Publisher	Wiley-Blackwell
ISSN	1074-5351
URL	http://www3.interscience.wiley.com/journal/5996/home
Editor-in-chief	Mohammad S. Obaidat
Issues per year	12
Type of papers	Transactions
2011 total cites	231
Impact factor	0.406
Eigenfactor score	0.00112
Article influence score	0.163
Tool for managing reviews in special issues	Manuscript central
Contact person from NEWCOM#	N/A

Table 2.24. International Journal of Communication Systems

2.2.25 *International Journal of Wireless Information Networks*

International Journal of Wireless Information Networks is an international forum for the dissemination of knowledge related to wireless information networks for researchers in the telecommunications and computer industries. International Journal of Wireless Information Networks aims to fill the needs of academic researchers involved in basic research at universities or research laboratories; telecommunications and computer engineers involved in design, planning, operation, and maintenance of state-of-the-art wireless information networks; and the technical community in telecommunications and computers involved in applied research and standards activities.

Field of interest: sensor and mobile ad-hoc networks; wireless personal area networks; wireless LANs; mobile data networks; location aware networks and services; RF localization and RFID techniques; performance-predictions methodologies; radio propagation studies; modulation and coding; multiple access methods; security and privacy considerations; antenna and RF subsystems; VLSI and ASIC design; experimental trials; traffic and frequency management; network signalling and architecture.

Journal Title	International Journal of Wireless Information Networks
Publisher	Springer
ISSN	1068-9605
URL	http://www.springer.com/engineering/electronics/journal/10776
Editor-in-chief	Kaveh Pahlavan
Issues per year	4
Type of papers	Transactions
2011 total cites	N/A
Impact factor	N/A
Eigenfactor score	N/A
Article influence score	N/A
Tool for managing reviews in special issues	Online Manuscript Submission, Review and Tracking System for the journal International Journal of Wireless Information Networks
Contact person from NEWCOM#	N/A

Table 2.25. International Journal of Wireless Information Networks

2.2.26 Journal of Circuits, Systems, and Computer

Journal of Circuits, Systems and Computers is published eight times a year, and covers a wide scope, ranging from mathematical foundations to practical engineering design in the general areas of circuits, systems, and computers. Although primary emphasis will be on research papers, survey, expository and tutorial papers are also welcome.

Field of interest: practical engineering design in the general areas of circuits, systems, and computers.

Journal Title	Journal of Circuits, Systems and Computer
Publisher	World Scientific
ISSN	0218-1266
URL	http://www.worldscientific.com/worldscinet/jcsc
Editor-in-chief	Wai-Kai Chen
Issues per year	8
Type of papers	Transactions
2011 total cites	224
Impact factor	0.215
Eigenfactor score	0.00044
Article influence score	0.060
Tool for managing reviews in special issues	http://www.editorialmanager.com/wspc-jcsc/default.asp?pg=login.asp
Contact person from NEWCOM#	N/A

Table 2.26. Journal of Circuits, Systems and Computer

2.2.27 Journal of Communications and Networks

The Journal of Communications and Networks is published six times per year, and is committed to publishing high-quality papers that advance the state-of-the-art and practical applications of communications and information networks. Theoretical research contributions presenting new techniques, concepts, or analyses, applied contributions reporting on experiences and experiments, and tutorial expositions of permanent reference value are welcome. The subjects covered by this journal include all topics in communication theory and techniques, communication systems, and information networks.

Field of interest: information theory; modulation/signal design; detection/estimation; fading/equalization; optical communications; transmission systems; access systems; synchronization; error control coding; source coding/data compression; security/cryptography; cognitive radio; compressed sensing; network coding; portable communications systems; transmission modulation and coding for mobile terrestrial and satellite systems; multicarrier systems; cooperative communications; multi antenna/user systems; ultra-wideband communications; wireless network design and performance evaluation including traffic analysis; ad-hoc and sensor networks; MAC protocols; network physical and software architecture; communication protocols; network hardware and software technologies; switching and routing; multimedia techniques; Internet/Intranet protocols and services; mobility networks and protocols; operations and management; signalling and control; active networks; services and applications.

Journal Title	Journal of Communications and Networks
Publisher	Korea Information and Communications Society
ISSN	1229-2370
URL	http://www.jcn.or.kr/home/journal/
Editor-in-chief	H. Vincent Poor
Issues per year	6
Type of papers	Transactions
2011 total cites	N/A
Impact factor	N/A
Eigenfactor score	N/A
Article influence score	N/A
Tool for managing reviews in special issues	Manuscript Central
Contact person from NEWCOM#	Sinan Gezici

Table 2.27. Journal of Communications and Networks

2.2.28 Journal of Navigation and Observation

The overall aim of the International Journal of Navigation and Observation is to explore emerging concepts and applications in navigation, positioning, Earth observation, and related fields. The journal is directed at both practicing engineers as well as academic researchers. It will highlight new ideas and challenges in both application development and basic research, thus seeking to bridge the gap between innovation and practical implementation. All articles undergo a rigorous peer-review process. Specifically, the journal employs a paperless, electronic review process that ensures a speedy processing of papers with short turnaround times.

Field of Interest : theory and/or practice of navigation, positioning, and Earth observation.

Journal Title	Journal of Navigation and Observation
Publisher	Hindawi
ISSN	1687-5990
URL	http://www.hindawi.com/journals/ijno/
Editor-in-chief	Marco Luise
Issues per year	N/A
Type of papers	Transactions
2011 total cites	N/A
Impact factor	N/A
Eigenfactor score	N/A
Article influence score	N/A
Tool for managing reviews in special issues	special.issues@hindawi.com
Contact person from NEWCOM#	Marco Luise

Table 2.28. Journal of Navigation and Observation

2.2.29 PHYCOM: Physical Communication

PHYCOM: Physical Communication is an international and archival journal providing complete coverage of all topics of interest to those involved in all aspects of physical layer communications. Theoretical research contributions presenting new techniques, concepts or analyses, applied contributions reporting on experiences and experiments, and tutorials are published.

Field of Interest: physical layer issues of Wireless Local Area Networks; WiMAX, Wireless Mesh Networks, Sensor and Ad Hoc Networks, PCS Systems; Radio access protocols and algorithms for the physical layer; Spread Spectrum Communications; Channel Modelling; Detection and Estimation; Modulation and Coding; Multiplexing and Carrier Techniques; Broadband Wireless Communications; Wireless Personal Communications; Multi-user Detection; Signal Separation and Interference rejection: Multimedia Communications over Wireless; DSP Applications to Wireless Systems; Experimental and Prototype Results; Multiple Access Techniques; Space-time Processing; Synchronization Techniques; Error Control Techniques; Cryptography; Software Radios; Tracking; Resource Allocation and Inference Management; Multi-rate and Multi-carrier Communications; Cross layer Design and Optimization; Propagation and Channel Characterization; OFDM Systems; MIMO Systems; Ultra-Wideband Communications; Cognitive Radio System Architectures; Platforms and Hardware Implementations for the Support of Cognitive, Radio Systems; Cognitive Radio Resource Management and Dynamic Spectrum Sharing.

Journal Title	PHYCOM: Physical Communication
Publisher	Elsevier
ISSN	1874-4907
URL	http://www.elsevier.com/wps/find/journaldescription.cws_home/713690/description#description
Editor-in-chief	I.F. Akyildiz
Issues per year	12
Type of papers	Transactions
2011 total cites	N/A
Impact factor	N/A
Eigenfactor score	N/A
Article influence score	N/A
Tool for managing reviews in special issues	Elsevier editorial system.
Contact person from NEWCOM#	L. Vandendorpe

Table 2.29. PHYCOM: Physical Communication

2.2.30 Proceedings of the IEEE

Proceedings of the IEEE's highly cited papers have provided the global engineering community with fully referenced coverage on all emerging technologies since 1913, when it first appeared as the Proceedings of the Institute of Radio Engineers. The Proceedings of the IEEE is an archival, refereed, fully referenced monthly journal that covers all aspects of electronics, electrical engineering, and computer engineering with reviews, surveys, and tutorial papers. Reviews critically examine a technology, tracing its progress from its inception to the present-- and perhaps into the future. Surveys comprehensively view a technology-- its applications, issues, ramifications, and potential. Tutorial papers explain a technology and may give practical information for implementing it. These papers are written for the purpose of informing non-specialist electrical engineers about a particular technology.

Field of Interest: electrical engineering; electronics; computer science.

Journal Title	Proceedings of the IEEE
Publisher	IEEE
ISSN	0018-9219
URL	http://www.ieee.org/publications_standards/publications/proceedings/index.html
Editor-in-chief	Dr. Robert J Trew
Issues per year	12
Type of papers	Review papers, surveys, tutorials, special issues
2011 total cites	16872
Impact factor	6.810
Eigenfactor score	0.04081
Article influence score	3.371
Tool for managing reviews in special issues	Manuscript Central
Contact person from NEWCOM#	N/A

Table 2.30. Proceedings of the IEEE

2.2.31 Transactions on Emerging Telecommunications Technologies

Transactions on Emerging Telecommunications Technologies (ETT), formerly known as European Transactions on Telecommunications (ETT), has the following aims: to attract cutting-edge publications from leading researchers and research groups around the world, to become a highly cited source of timely research findings in emerging fields of telecommunications, to limit revision and publication cycles to a few months and thus significantly increase attractiveness to publish, to become the leading journal for publishing the latest developments in telecommunications.

Field of interest: smart grid; machine-to-machine; green communications; optical wireless communications; communications in challenged environments; mobile robot communications; bioinspired communication systems; nanoscale communications; radio resource and interference management; dynamic medium access control techniques; spectrum sharing; game-theoretical strategies; femto/small-cells; future internet; vehicular networks; IMT-Advanced and beyond; cognitive and docitive networks; internet of things; cross-layer designs and architectures; self-* networks; peer-to-peer networks; mobile cloud; multiagent systems; social networks; cyber physical systems; pervasive communication networks; service oriented architectures; tele-* (presence, medicine, gaming, etc); smartphone architectures and applications; semantic web; network economics; business models for heterogeneous networks; risk-based service planning; spectrum management

policies; social trust models; eCommerce; privacy architectures; trust architectures; security in social networks.

Journal Title	Transactions on Emerging Telecommunications Technologies
Publisher	John Wiley
ISSN	Online ISSN: 2161-3915
URL	http://www3.interscience.wiley.com/journal/104087069/home
Editor-in-chief	Mischa Dolher
Issues per year	8
Type of papers	Transactions
2011 total cites	N/A
Impact factor	0.454 (ISI Journal Citation Report 2011)
Eigenfactor score	N/A
Article influence score	N/A
Tool for managing reviews in special issues	Manuscript Central
Contact person from NEWCOM#	N/A

Table 2.31. Transactions on Emerging Telecommunications Technologies

2.2.32 Wireless Communications and Mobile Computing

Wireless Communications and Mobile Computing provides the R&D communities working in academia and the telecommunications and networking industries with a forum for sharing research and ideas. Under the guidance of an international editorial and advisory board drawn from academia and industry, this high quality, peer-reviewed journal, provides leading edge coverage of the opportunities and challenges driving the research and development of mobile communication systems.

Field of Interest: wireless communications; mobile computing.

Journal Title	Wireless Communications and Mobile Computing
Publisher	John Wiley- Blackwell
ISSN	1530-8669
URL	http://www3.interscience.wiley.com/journal/76507157/home
Editor-in-chief	Mohsen Guizani
Issues per year	12
Type of papers	Transactions
2011 total cites	1,744
Impact factor	0.884
Eigenfactor score	0.00458
Article influence score	0.496
Tool for managing reviews in special issues	Manuscript central.
Contact person from NEWCOM#	N/A

Table 2.32. Wireless Communications and Mobile Computing

2.2.33 Wireless Networks

Wireless Networks focuses on the networking and user aspects of this field. It provides a single common and global forum for archival value contributions documenting these fast growing areas of interest. The journal publishes refereed articles dealing with research, experience and management issues of wireless networks.

Field of interest: network architectures for personal communication systems; wireless LANs; radio, tactical and other wireless networks, design and analysis of protocols; network management and network performance; network services and service integration; nomadic computing; internets working with cable and other wireless networks; standardization and regulatory issues; specific system descriptions; applications and user interface; enabling technologies for wireless networks.

Journal Title	Wireless Networks
Publisher	Springer
ISSN	1022-0038
URL	http://www.springer.com/engineering/signals/journal/11276
Editor-in-chief	Imrich Chlamtac
Issues per year	8
Type of papers	Transactions
2011 total cites	1215
Impact factor	0.520
Eigenfactor score	0.00341
Article influence score	0.467
Tool for managing reviews in special issues	Editorial Manager from Springer
Contact person from NEWCOM#	N/A

Table 2.33. Wireless Networks

2.2.34 Wireless Personal Communications

Wireless Personal Communications is an archival, peer reviewed, scientific and technical journal addressing mobile communications and computing. It investigates theoretical, engineering, and experimental aspects of radio communications, voice, data, images, and multimedia.

Field of Interest: propagation; system models; speech and image coding; multiple access techniques; protocols performance evaluation; radio local area networks; networking and architectures.

Journal Title	Wireless Personal Communications
Publisher	Springer
ISSN	0929-6212
URL	http://www.springer.com/engineering/signals/journal/11277
Editor-in-chief	Ramjee Prasad
Issues per year	12
Type of papers	Transactions
2011 total cites	N/A
Impact factor	0.458
Eigenfactor score	N/A
Article influence score	N/A
Tool for managing reviews in special issues	Editorial Manager from Springer.
Contact person from NEWCOM#	N/A

Table 2.34. Wireless Personal Communications

3. Main Research Topics Relevant to Newcom#

3.1 Main scope of this section

In this section, we identify some research topics (RTs) which are, simultaneously, of interest to the whole scientific community, timely and have enough critical mass within NEWCOM#. We believe that the identified topics make a fit with the development of journal special issues to be published by the major international editors (IEEE, Springer, Wiley, etc.).

3.2 Identified research topics

3.2.1 Advances in cooperative networking

3.2.1.1 Motivations
Recently, the wireless research community paid a considerable attention to cooperative networking as an emerging network design strategy for the development of advanced wireless systems supporting innovative multimedia services and applications. In the context of NEWCOM#, cutting-edge research achievements are expected in different fundamental aspects like theoretical tools for designing cooperative networks, protocols design, cross layer coordination mechanisms, and compatible deployment of cooperative networking over existing infrastructure.

3.2.1.2 Preliminary list of potential journals
According to the characteristics of each journal reported in the previous section, a non-exhaustive collection of potential journal is listed below:
- IEEE Journal on Selected Areas in Communications;
- EURASIP Journal on Wireless Communications and Networking;
- Transactions on Emerging Telecommunications Technologies.

3.2.2 Strategic Learning and Game Theoretic Approaches for Wireless Networks

3.2.2.1 Motivations
Future wireless networks will act as a network of decision making players, wherein the decisions taken by one node, rapidly propagate and have impact on the outcomes of other nodes, As a consequence, modelling the strategic interactions between wireless nodes becomes a crucial topic to be addressed by the wireless research community. In particular, to expect a collaborative effort towards some global optimal strategies is unreasonable in most of the cases of interest. Non-alignment of individual objectives, limits on the information that can be shared between nodes, incompatibility of beliefs, and lack of a mechanism to enforce a stable cooperative solution fully motivates game theoretical approaches in all aspects of network design and optimization.

3.2.2.2 Preliminary list of potential journals
According to the characteristics of each journal reported in the previous section, a non-exhaustive collection of potential journal is listed below:
- IEEE Journal on Selected Areas in Communications;
- Transactions on Emerging Telecommunications Technologies.

3.2.3 Theories/Methods for Spectrum and Energy Efficient Communications

3.2.3.1 Motivations.

In the last few decades, the vision of seamless and pervasive wireless communication systems providing even more advanced multimedia services (the so-called "wireless vision") has paved the way to an extraordinary proliferation of network infrastructures with the consequent dramatic escalation of energy demands. This trend conflicts with the international guidelines on greenhouse gas emissions targeting a substantial reduction of the carbon footprints. After Durban conference on climate changes in 2011, EU is increasing the target from 20 per cent of carbon emission reductions by 2020 to 30 per cent by 2030. This is a major signal to business to start investing in green technology as the world moves towards a low carbon future. In this situation, one of the main challenges for researchers and mobile operators is to provide an adequate capacity growth supporting the new traffic demands and, at the same time, contribute to the global engagement in reducing the impact of the human activities on global warming. To meet these challenges, green radio research direction, encompassing advanced physical layer techniques such as multiple-input multiple-output (MIMO) and orthogonal frequency division multiplexing (OFDM), new network architectures like heterogeneous networks, as well as radio and network resource management techniques including optimization algorithms, dynamic power saving, signal and spectrum coordination, etc, has become an important trend in both the academic and industrial worlds.

3.2.3.2 Preliminary list of potential journals

According to the characteristics of each journal reported in the previous section, a non-exhaustive collection of potential journal is listed below:

- EURASIP Journal on Wireless Communications and Networking;
- IEEE Journal on Selected Areas in Communications;
- IEEE Wireless Communications;
- IEEE Vehicular Technology Magazine.

3.2.4 Cooperative Localization and Positioning Techniques

3.2.4.1 Motivations

Emerging location-aware systems and services will be crucial for the successful development of many applications, including emergency/medical care, intelligent transportation, location-based billing, environmental monitoring, energy efficient buildings, location-assisted gaming, and social networking. During the last few years, a considerable research effort has been devoted to this topic, and several solutions have been investigated. Among them, cooperative localization received an extensive interest from the wireless communication community as a potential breakthrough that will lead to dramatically increase the localization performance in terms of both accuracy and coverage.

3.2.4.2 Preliminary list of potential journals

According to the characteristics of each journal reported in the previous section, a non-exhaustive collection of potential journal is listed below:

- EURASIP Journal on Wireless Communications and Networking;
- IEEE Journal on Selected Areas in Communications;
- International Journal of Wireless Information Networks;
- IEEE Signal Processing Magazine.

3.2.5 Mobile Clouds and Opportunistic Networking

3.2.5.1 Motivations

Opportunistic networking is a new emerging communication paradigm dealing with wireless environments where disconnections, reconnections and nodes' mobility are considered as ordinary events. In this sense, this paradigm is very suited to networking environments like Infostation-based systems, Wireless Sensor Networks, Underwater Sensor Networks, Pocket Switched Networks, Delay-Tolerant Networks, etc. In this context, special attention will be paid to the network design requirements posed by users and devices that are expected to move in groups and are likely featured by social community relationships. In particular, a considerable attention will be paid to the new compelling concept of mobile clouds and the challenges relevant to this new usage paradigm of mobile clients that need to access the Internet seamlessly in spite of mobility.

3.2.5.2 Preliminary list of potential journals

According to the characteristics of each journal reported in the previous section, a non-exhaustive collection of potential journal is listed below:
- Elsevier Computer Communications Journal;
- IEEE Journal on Selected Areas in Communications;
- International Journal of Communication Systems;
- International Journal of Wireless Information Networks;
- Transactions on Emerging Telecommunications Technologies.

3.2.6 Advances in Wireless Cognitive Radio

3.2.6.1 Motivations

Cognitive radio (CR) stands out as a potential cornerstone to break the spectrum gridlock through enabling dynamic spectrum access. The essential features of cognitive radio systems include the ability to sense the environment in order to learn from it and to take the adequate decisions in terms of resource utilization and configuration. Besides the traditional spectrum sensing capability and physical layer issues, building a fully-functioning CR network presents a number of challenges like MAC layer spectrum management, network layer routing and vertical handoff which interact between them in complex way. In this context, NEWCOM# researchers can bring together results from different WPs in order to provide an overall picture of the advances in wireless CR as well as open issues and novel cross-layer solutions in this field.

3.2.6.2 Preliminary list of potential journals

According to the characteristics of each journal reported in the previous section, a non-exhaustive collection of potential journal is listed below:
- IEEE Communications Magazine;
- IEEE Vehicular Technology Magazine;
- IET Communications;
- IEEE Journal on Selected Areas in Communications;
- IEEE Wireless Communications;
- EURASIP Journal on Wireless Communications and Networking.

3.2.7 Flexible Radio Design and Platforms

3.2.7.1 Motivations

Flexibility of radio transceivers, which should be capable of operating in a variety of communication networks, is a crucial task both in the academic and industrial worlds. This topic will include, but will not be limited to, flexibility to provide access to multiple networks,

environmental adaptivity, intelligent and autonomous operation in decentralized networks, human-centric operation, etc. The tools and platforms to provide such flexibility to a radio transceiver will be taken into consideration, i.e. new algorithms and concepts for the flexibility of the physical layer, flexibility-enabling interfaces, optimized HW for reconfigurable transceivers, HW/SW partition, joint optimization of algorithms and processing capabilities, power consumption and cost aware designs.

3.2.7.2 Preliminary list of potential journals
According to the characteristics of each journal reported in the previous section, a non-exhaustive collection of potential journal is listed below:
- EURASIP Journal on Advances in Signal Processing;
- IEEE Journal on Selected Areas in Communications;
- IEEE Wireless Communications.

3.2.8 Theories/Methods for Large Networks

3.2.8.1 Motivations
Current models and techniques for wireless networks are mostly based on the assumption of a small finite number of users. When considering large-scale wireless networks a number of new challenges arise, like the impossibility to have global (even imperfect) channel knowledge, the need to properly model and mitigate interference coming from many sources, the development of novel distributed strategies dealing with a large population of wireless nodes. This topic will explore new theoretical tools such as stochastic geometry, random matrix theory, population games, statistical physics and compressed sensing.

3.2.8.2 Preliminary list of potential journals
According to the characteristics of each journal reported in the previous section, a non-exhaustive collection of potential journal is listed below:
- IEEE Journal on Selected Areas in Communications;
- Transactions on Emerging Telecommunications Technologies.

3.2.9 Small cells networks

3.2.9.1 Motivations

Recently, dense deployment of small-cells has been considered within the research community as one of the promising ways for solving the problem of rapidly growing traffic in wireless networks. The notion of *small-cells* includes mainly micro-, pico-, femto- and metro-cells, but sometimes also refers to the WiFi cells mainly in the context of traffic offloading. Reduction of the cell size together with the sophisticated traffic management create new degrees of freedom in network planning, intelligent traffic scheduling, and even energy saving on the network level. Unfortunately, beside natural advantages of the application of small-cells networks (SCN), such an approach creates also significant problems to the network operators, such as effective interference management, guaranteeing the required quality-of-service to the user and aforementioned traffic offloading. It is, however, worth mentioning that during the recent workshop organized by 3GPP in Barcelona in December 2012, the SCNs and integration of cellular and WiFi networks have been treated as one of the targets of the Release 12 of the 3GPP cellular standard. Within NEWCOM#, the Small-Cell Network topic will focus on finding novel solutions for SCN mainly in the area of efficient utilization of available context information for system performance optimization, e.g. for radio resource management, traffic offloading policies, energy saving at the network level etc.

3.2.9.2 Preliminary list of potential journals

According to the characteristics of each journal reported in the previous section, a non-exhaustive collection of potential journal is listed below:

- IEEE Journal on Selected Areas in Communications;
- Transactions on Emerging Telecommunications Technologies;
- IEEE Wireless Communications;
- IEEE Communications Magazine;
- EURASIP Journal on Wireless Communications and Networking;
- Physical Communications.

3.2.10 Advances for low-interference radio interfaces

3.2.10.1 Motivations

Growing number of wireless systems operating in the same radio environment causes that the inter-devices interference is often treated as one of the key factors limiting the wireless systems throughput. Contemporarily, the most vital approach in solving this problem is the demand of guaranteeing the appropriate protection of two different systems operating in the adjacent frequency bands. In such a case careful and precise design of transmitted waveforms is required that have to be well localized in time and frequency (as pulses used in e.g. FBMC systems). Moreover, utilization of the advanced interference cancellation techniques at the transmitter side is often proposed that will not scarify the valuable bit rate or decrease significantly overall system performance. The focus of this research topic should be, however, also on the hardware impairments, e.g. IQ imbalance, intermodulation, nonlinearities, as these effects have to be taken into account to "clean" the frequency spectrum outside the nominal frequency band devoted for transmission and make it usable for other systems.

3.2.10.2 Preliminary list of potential journals

According to the characteristics of each journal reported in the previous section, a non-exhaustive collection of potential journal is listed below:

- IEEE Journal on Selected Areas in Communications;
- EURASIP Journal on Wireless Communications and Networking;
- Transactions on Wireless Communications.

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4. Book Publishers

4.1 Main scope of this section

This section intends to provide a list of the book publishers that the authors of this deliverable consider to be the main players in the fields corresponding to NEWCOM#. These publishers have already published books that can be considered as bestsellers in the broad field of wireless communications. They also show their particular interest for the field by having for instance booths at major conferences of the field, like IEEE ICC, IEEE Globecom, IEEE ISIT, IEEE PIMRC, IEEE WCNC, IEEE VTC and others as well.
Therefore these publishers will be considered for the dissemination of the books chapters and books that will be produced by NEWCOM# researchers.

4.2 List of main book publishers

4.2.1 Academic Press

The following description is from the website: "Academic Press has been a leading publisher of scientific books for more than 65 years. For scientific and medical researchers, Academic Press provides high quality scientific reference and academic content. From neuroscience to earth science, Academic Press is committed to publishing a wide variety of superior quality content from today's leading experts. As an imprint of Elsevier, Academic Press offers seamless integration of scientific content with online resources such as **ScienceDirect.com**, **Referex** and **X-Pharm** for easy access to an abundance of cutting-edge scientific information. For students and instructors, they offer high-quality textbooks. Offerings can be found at **textbooks.elsevier.com**."

4.2.2 Artech-House

The following description is from the website: « A leading technical book publisher, Artech House provides today's professionals and students with cutting-edge books and software from the world's top authorities. From the hottest emerging areas, such as nanotechnology, biomedical engineering, and GPS/GNSS, to established high-tech fields, including communications engineering, RF/microwave design, and computer security, Artech House publishes the forward-looking titles that engineers and managers need to excel. Artech House is a subsidiary of Horizon House Publications, Inc., publisher of the internationally acclaimed magazines *Telecommunications®* and *Microwave Journal®. »*
The website contains a section entitled "Books with eChapters", that can be found at http://www.artechhouse.com/International/Books.aspx?fields=TextBox5|9%.

The book series on communications can be found from the following link: http://www.artechhouse.com/International/Communications.aspx.

4.2.3 Cambridge University Press

The following description is from the website: « Cambridge University Press dates from 1534 and is the publishing business of the University of Cambridge. Our purpose is to further the University's objective of advancing learning, knowledge and research. Playing a leading role in today's global market place, we have over 50 offices around the globe, and we distribute our products to nearly every country in the world. We publish titles written by authors in over 100 different countries. »

The catalogue of books dealing with « communications and signal processing » can be found at: http://www.cambridge.org/be/knowledge/other_subject/item1813/?site_locale=nl_BE.

Their ebooks on « communications and signal processing » can be found at the link : http://www.cambridge.org/be/knowledge/ebooks/bysubject/item1813/?site_locale=nl_BE.

4.2.4 CRC Press

A short description can be found from Wikipedia: "The **CRC Press**, LLC is a publishing group that specializes in producing technical books. Many of their books relate to engineering, science and mathematics. Their scope also includes books on business, forensics and information technology. CRC Press is now a division of Taylor & Francis, itself a subsidiary of Informa."

Their books on "Digital & Wireless Communications" can be found from the following link: http://www.crcpress.com/browse/?category=EOE16A.

4.2.5 Elsevier Science

The following information comes from the company website: "As the world's leading provider of science and health information, Elsevier serves more than 30 million scientists, students and health and information professionals worldwide. We partner with a global community of 7,000 journal editors, 70,000 editorial board members, 300,000 reviewers and 600,000 authors to help customers advance science and health by providing world-class information and innovative tools that help them make critical decisions, enhance productivity and improve outcomes.
Headquartered in Amsterdam, we are a global company employing more than 7,000 people in 24 countries. We are a founding publisher of global programs that provide free or low-cost access to science and health information in the developing world. Elsevier's roots are in journal and book publishing, where we have fostered the peer-review process for more than 130 years. Today we are driving innovation by delivering authoritative content with cutting-edge technology, allowing our customers to find the answers they need quickly."

Their book catalogue on "Electrical and electronic engineering" can be found from the following link: http://www.elsevier.com/books/subjects/engineering-and-technology/electrical-and-electronic-engineering.

Their electronic books can be found at http://www.sciencedirect.com/.

4.2.6 Prentice-Hall

Prentice-Hall is a Pearson division. From the website, "Pearson is the world's leading learning company. We partner with faculty and institutions to creative innovative solutions to improve student achievement and institutional effectiveness. We support learning from the time a child enters school throughout their educational journey. We aim to help students get to college and succeed there, enter the workforce and attain their professional goals. We create and connect content, technology, assessment and services to create unique learning solutions. We also deliver services that can help schools and academic institutions achieve their goals. Our breadth, depth of experience in education and our commitment to learning gains sets us apart. Every day, 36,000 Pearson employees in 70 countries strive to bring better, more personalized learning experiences to our customers."

The catalogue can for instance be found at http://www.pearsoned.co.uk/.

4.2.7 Springer

The following information comes from the company website: "Knowledge, information and quality – these are the three things that shape Springer Science+Business Media's business activities. We develop, manage and disseminate knowledge – through books, journals and the Internet. We work with the world's best academics and authors in long-standing loyal partnerships based on mutual trust and we are always open to new input.
We aim to offer excellence – more than 150 Nobel prize-winners have published with Springer to the present date. Many of our publications are considered authoritative works in their field, read by academics and students, used by libraries and universities, academic professionals and practitioners in various branches of industry. »

The books and ebooks dealing with « Signals & Communications » can be found from the following link : http://www.springer.com/engineering/signals?SGWID=0-186-0-0-0.

4.2.8 Wiley

The following information comes from Wikipedia: "**John Wiley & Sons, Inc.**, also referred to as **Wiley**, is a global publishing company that specializes in academic publishing and markets its products to professionals and consumers, students and instructors in higher education, and researchers and practitioners in scientific, technical, medical, and scholarly fields. The company produces books, journals, and encyclopedias, in print and electronically, as well as online products and services, training materials, and educational materials for undergraduate, graduate, and continuing education students. »
The catalogue of (e)books on "Mobile and wireless communications" can be found at the following link: http://eu.wiley.com/WileyCDA/Section/id-350549.html.

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5. Special Issues at the Newcom# Webpage

In order to disseminate the information about the open call for papers for the journal special issues, a dedicated area has been created on the NEWCOM# webpage. This sub-page has been divided into three consecutive sections. In the first part the list of the special issues organized, initiated or proposed by the NEWCOM# researchers is provided, while in the second the direct links to the other open special issues can be found (see

Figure 5.1. Screenshot illustrating the first two main sections in the Journal Special Issue section

). All NEWCOMers are invited and have been already informed and asked to provide to the sub-page manager the newest information about journal special issues which are not listed but could be of interest to the broader community. Moreover, the list of the selected journals accepting special issues proposals has been created with the purpose of stimulating the NEWCOM# researchers for proposing new special issues (see **Errore. L'origine riferimento non è stata trovata.**).
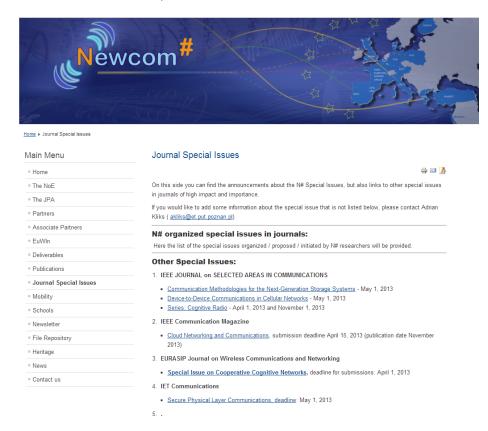

Figure 5.1. Screenshot illustrating the first two main sections in the Journal Special Issue section

List of potential journals for SI proposals:

- Annals of Telecommunications - LINK
- Elseviever Computer Communications Journal - LINK
- Elseviever Computers and Electrical Engineering Journal - LINK
- ETRI Journal - LINK
- EURASIP Journal on Advances in Signal Processing - LINK
- EURASIP Journal on Wireless Communications and Networking - LINK
- EURASIP Signal Processing - LINK
- IEEE Communications Magazine - LINK
- IEEE Journal on Selected Areas in Communications - LINK
- IEEE Journal of Selected Topics in Signal Processing - LINK
- IEEE Transactions on Antennas and Propagation - LINK
- IEEE Transactions on Broadcasting - LINK
- IEEE Transactions on Information Theory - LINK
- IEEE Transactions on Signal Processing - LINK
- IEEE Transactions on Vehicular Technology - LINK
- IEEE Vehicular Technology Magazine - LINK
- IEEE Wireless Communications - LINK
- IET Circuits, Devices and Systems - LINK
- IET Communications - LINK
- International Journal of Communication Systems - LINK
- International Journal of Wireless Information Networks - LINK
- Journal of Communications and Networks - LINK
- PHYCOM: Physical Communication - LINK
- Proceedings of the IEEE - LINK
- Transactions on Emerging Telecommunications Technologies - LINK
- Wireless Communications and Mobile Computing - LINK
- Wireless Networks - LINK
- Wireless Personal Communications - LINK

Figure 5.2. Screenshot from the Journal Special Issue section with the list of journals accepting special issues proposals

6. Conclusions

This section summarises the main achievements, and briefly discusses the next steps of the activity.

This deliverable is intended
- To provide NEWCOM# researchers who would like to propose and organize a special issue, with a list of major journals using this type of instrument;
- To provide all NEWCOM# researchers with this list so that they can keep track of the possible special issues launched by other colleagues of the scientific community, not belonging to NEWCOM#, and to which they could contribute a paper; this monitoring of launched special issues is implemented in task 3.3.3 and related information will be posted on the NEWCOM# website;
- To provide NEWCOM# track-1 researchers with a list of publishers who could be potential candidates for e-publishing book chapters, and/or (e)-publishing complete books.

From the lists of journals and publishers reported in this deliverable, it appears that many options exist, be it for special issues or for book and book chapter publication.
Concerning the journals, they all have different flavours and accents, in terms of signal processing, communication theory, information theory, networking or channel aspects. It is worth remarking that, in many cases, NEWCOM# furnishes to its members the opportunity of establishing a direct contact with researchers or senior members involved to the editorial boards of those journals, thus making easier the development of SIs.
For the sake of completeness, for each journal listed in this document, currently available bibliographical information have been reported with the aim of giving a comprehensive picture of the editorial offer.

It is very clear that a number of topics with critical mass in NEWCOM# deserve a special issue. According to the work description, crucial research issues, like small cell networks, cognitive radio, or cooperative aspects in wireless communications, permeate a large number of WPs and Tasks in NEWCOM#. The large number of hot topics that have been identified in this document fully justifies high expectations for the cross-workpackage journal SIs that might be arise.

A particular attention has been also devoted to the book publishers (Wiley, Springer, Elsevier, etc) that can be considered for the dissemination of the books chapters and books that will be produced by NEWCOM# researchers.

Finally, the area of Newcom# website devoted to journal special issues has been presented. Newcom# website provides information about the forthcoming special issues inspired by NEWCOM# activities as well as a comprehensive list of journals, thus facilitating the dissemination task.

The coming weeks will be devoted to the refinement, finalization and the implementation of these special issues, as well as the identification of topics and actors for the writing of books and book chapters.

Comments and suggestions for the improvement of this document are most welcome and should be sent to:

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http://www.newcom-project.eu