

AGREEMENT FOR AN IEEE TRANSACTIONS ON WIRELESS COMMUNICATION

THIS DOCUMENT

This document constitutes an Agreement between the IEEE Communications Society (COMSOC) and the IEEE Signal Processing Society (SPS) as inaugural sponsors (hereinafter "Sponsors") for an *IEEE Transactions on Wireless Communications (ToWC)*. Under the provisions of this Agreement, other IEEE Societies may participate in the future as sponsors or technical co-sponsors of *ToWC*.

BACKGROUND

In 1999 COMSOC began a 3-issue-a-year special series within the COMSOC-sponsored *IEEE Journal on Selected Areas in Communications (JSAC)* within *JSAC* known as "*Wireless JSAC*." This series, which has an editorial board that is separate from the *JSAC* editorial board, has been dedicated solely to wireless communication. *Wireless JSAC* has been able to establish high visibility within this important area, and to attract and publish high quality papers in this area.

The *Transactions on Wireless Communications* will "spin out" of the existing *Wireless JSAC* series. For example under the provisions of this Agreement, the existing Editor-in-Chief of the *Wireless JSAC Series* in 2001 will be the founding Editor-in-Chief of *Transactions on Wireless Communications*. It is also expected that most of the papers appearing in *ToWC*'s first year in publication will be drawn from papers initially submitted to the *Wireless JSAC Series*, and that a large fraction of the initial editorial board for *ToWC* will be drawn from the existing editorial board of the *Wireless JSAC Series*.

SPONSORSHIP

Recognizing that (i) the Signal Processing Society has both a societal scope and technical interests that are in the wireless communications area, (ii) that these interests fall within the scope of the *ToWC* (see below), and (iii) that these interests are in many ways complementary to those of the Communication Society, the two societies agree that while *ToWC* is being spun out of the *Wireless JSAC Series*, the journal will be co-sponsored by COMSOC and SPS under the terms of this Agreement. Co-sponsorship of *ToWC* will be indicated on the front cover of the journal, using the phrase "Co-sponsored by the IEEE Communications Society and the IEEE Signal Processing Society."

SCOPE

The *IEEE Transactions on Wireless Communications* will publish high-quality manuscripts on advances in the state-of-the-art of wireless communications. Both theoretical contributions (including new techniques, concepts, and analyses) and practical contributions (including system experiments and prototypes, and new applications) will be encouraged. The general scope of the *Transactions* includes, but is not limited to, the following:

Modulation and coding



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Detection and estimation
Diversity techniques and equalization
Propagation and channel characterization
Fading countermeasures
Multiuser detection
Signal separation and interference rejection
DSP applications to wireless systems
Broadband wireless communications
Network architectures and protocols, with an emphasis on physical and link layer communication
Adaptive antennas for wireless systems
Multiple access techniques
Space-time processing
Synchronization techniques
Software radio
Resource allocation and interference management
Multirate and multicarrier communications
Security, privacy, and authentication
Experimental and prototype results
Systems and services including mobile satellites, wireless local loops, wireless LANs, wireless PBX, and PCS/cellular.

location estimation
tracking
multimedia communication over wireless

In addition, papers on specific topics or on more non-traditional topics related to specific application areas, are encouraged. Examples include Simulation tools and methodologies for design, analysis, rapid prototyping, performance prediction, and cellular system engineering; Orthogonal frequency division multiplexing; MIMO systems, and Wireless over optical.

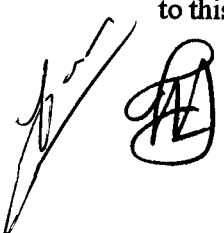
The boundary between the physical layer and network-and-higher layers is a fuzzy one, particularly in a wireless environment. Thus, we anticipate that the *Transactions on Wireless Communications* will also publish papers that lie at the boundary between physical layer communications and the area of architectures and protocols for wireless networks. Such papers would typically have significant content related to the physical layer (e.g., the topics outlined above).

The *Transactions on Wireless Communications* shall accept, as filler, calls for papers and calls for participation for technical meetings of any of the Sponsors, provided such meetings are directly related to wireless communication. Publication of filler is at the editorial discretion of the Editor-in-Chief.

The launching of *Transactions on Wireless Communications* will not in any way restrict the scope of the *IEEE Transactions on Communications*, *IEEE JSAC*, *IEEE/ACM Transactions on Networking*, *IEEE Communications Letters*, *IEEE Transactions on Signal Processing*, *IEEE Signal Processing Letters*, or other "broad spectrum" journals published by the Communications Society, Signal Processing Society, or other publications of the IEEE.

Implementation

This Agreement shall be acted upon by the Presidents of the Sponsors on behalf of their respective Boards of Governors (BoGs) or Administrative Committees (AdComs). All changes to this Agreement shall require the unanimous consent of the Sponsors. This Agreement, upon

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approval by the appropriate IEEE Technical Activities or other IEEE Board(s) shall become a part of the records of the IEEE Technical Activities Board.

Participation

The initial period of this Agreement shall be five years from the date of signature of the Sponsors and all Sponsors are obligated to commit to the Agreement for the full five years; thereafter, the Agreement shall be automatically renewable every three years with the Sponsors obligated to commit to the Agreement for the full three years.

In the extraordinary event that the Sponsors, by unanimous agreement, wish to withdraw from this Agreement:

- (1) the Steering Committee shall prepare a plan for the orderly termination of the publication, to include a publication schedule for the remaining issues;
- (2) appropriate announcements shall be made in accordance with the termination plan of the publication, such announcements to include TAB;
- (3) cease immediately accepting new submissions;
- (4) notify all authors with manuscripts under review, and either suggest alternative IEEE publications or accept the manuscript for publication in the Periodical.

All manuscripts already accepted for publication will be published, with the financial obligations incurred by such publication shared equally among the Sponsors. Following publication of such accepted manuscripts, the *ToWC* will be considered disbanded.

Recognizing that the subject matter of the *ToWC* represents a new, cutting-edge technology, it is conceivable that the sponsors may contract or expand in recognition of changes in the field, and to insure the technical viability of the *ToWC*. Therefore, any sponsor-- Sponsor or Technical Cosponsor--wishing to withdraw from this Agreement shall announce this fact to the Sponsors no later than one year prior to the expiration of the Agreement.

Following such notification, no other action for withdrawal shall be required; any monies due and owing to a withdrawing Sponsor, both surplus and remainder of share of the reserve, shall be paid to that Sponsor no later than 31 March of the year following withdrawal. Notification shall be made by the remaining Sponsors to the IEEE Technical Activities Board.

For the first five years of publication, the sole sponsors of *ToWC* will be the IEEE Communications Society and the IEEE Signal Processing Society. Additional full Sponsors may be considered beginning in 2007. The percentage interest in *ToWC* of each additional Sponsor will be recommended by a vote of the Steering Committee.

Any entity wishing to join this Agreement as a Sponsor shall so indicate to the current Sponsors, two years prior to the beginning of their financial participation. Any entity wishing to join this Agreement as a Technical Cosponsor shall so declare no later than 1 March of the year prior to activation of Technical Cosponsorship. Entities petitioning for Sponsor status shall provide evidence of technical strength and societal scope in the field of interest of the Periodical; technical strengths that expand, extend or are complementary to those of the Sponsors (but within the scope of the publication); financial viability to maintain the entity's role in the partnership for the next term; and evidence of approval of such participation by the entity's ruling body (board or administrative committee). Approval of new sponsors shall be by unanimous action of the Sponsors, upon recommendation of the Steering Committee regarding the entity's expected



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technical contribution, and confirmation of the entity's financial viability (for Sponsors) by IEEE Technical Activities. New Sponsors may join only at each agreement renewal window; Technical Cosponsors may be added the first day of January of any year.

ADMINISTRATION

ToWC will be administered by a Steering Committee, consisting of representatives appointed by the sponsors, and the Editor-in-Chief of the *ToWC*, as defined in the Steering Committee Charter. The appointment of the chair of the Steering Committee will alternate among Sponsors, as described in the Steering Committee Charter.

Recognizing the roots of *ToWC* in the *Wireless JSAC Series*, and the central role of the IEEE Communications Society in wireless communications, the IEEE Communications Society will be the "Managing Partner" of the *ToWC*, with the rights and responsibilities outlined in the Agreement.

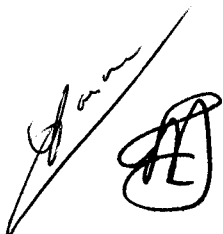
As Managing Partner, the IEEE Communication Society will be responsible for the *ToWC*'s interaction with the IEEE, including matters regarding IEEE Publications, and the IEEE Technical Activities Board. This includes the responsibility for preparing and transferring each issue to the production editor for preparation in all approved formats, and mailing of the final Periodical. The Managing Partner will also provide the sponsors and to the Steering Committee, at least annually, reports relevant to submissions vs. publication, timeliness, and adherence to page budget and other pertinent data about the Periodical. Personnel costs directly attributable to the management of the journal by the managing partner will be included in the expenses associated with the journal.

EDITORIAL MANAGEMENT CONSIDERATIONS

In addition, the Periodical shall have an Editorial Board to insure the appropriateness and quality of manuscripts submitted to the Periodical for publication, the peer review process, and other day-to-day matters normally within the purview of an Editorial Board of an IEEE transactions.

The Editor-in-Chief of *ToWC* will be an acknowledged leader in the field of interest of the *ToWC*. He/she will agree to assume the roles and responsibilities of the Editor-in-Chief of an IEEE transactions with all attention and vigor, realizing that there will be no remuneration for this service. The period of service will be two years, once-renewable. The inaugural EIC of *ToWC* will be Dr. Khaled Ben Letaief, the current EIC of the *IEEE Wireless JSAC Series*. *As is currently the practice with the IEEE Wireless JSAC Series, a Publications Editor will assist the EIC in assembling issues and interacting with the authors of accepted papers and IEEE Publications.*

Recognizing the roots of *ToWC* in the *IEEE Wireless JSAC Series*, and the central role of the IEEE Communications Society in the area of Wireless Communication, the EIC of *ToWC* will be appointed by the President of the IEEE Communications Society, with the consultation and advice of the Steering Committee and of the Presidents of the Sponsoring societies. The appointment of the new EIC will be conducted in a manner to ensure that the new EIC has been appointed at least six months prior to the expiration of the term of the retiring Editor-in-Chief.

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The Editor-in-Chief will be responsible for appointing the Associate Editors of the journal. The EIC will solicit editorial board nominations from all Steering Committee members (as well as other possible sources), and editors will be appointed with the advice and consultation of the Steering Committee. It is anticipated that the initial editorial board for the new transactions will be drawn primarily from the existing editorial board of the *Wireless JSAC* series. In areas where the SPS has significant technical interests, the EIC will appoint SPS-affiliated editors.

The EIC and the appointed Associate Editors will form the *ToWC* Editorial Board, which will insure the appropriateness and quality of manuscripts submitted to *ToWC* for publication, the peer review process, and other day-to-day matters normally within the purview of an Editorial Board of an IEEE transactions.

FINANCIAL CONSIDERATIONS

The Sponsors are responsible for all financial obligations of the Periodical.

Annually, the Chair of the Steering Committee shall provide copies to all Sponsors of itemized income and expense budgets that provide a financial history, current performance, and recommended budgets for the next three years, as well as historical information and recommendations for page budgets, numbers of issues, and suggested pricing. The journal's budget will be prepared and adopted by the Steering Committee, typically during the month of March, but always in time for the annual societal and IEEE budgeting processes. *ToWC* funds and accounts will be maintained by the Communications Society in accounts that are specific to *ToWC*, i.e., separate from accounts that are related to other COMSOC activities.

The initial investments in the journal by COMSOC and SPS will be apportioned 75% and 25%, respectively. Any profits or expenditures against the initial investment in the first three years will be in the ratio of 3:1.

A reserve fund will be created and maintained to cover potential losses incurred by the journal. The reserve fund will be seeded with the initial investment by the societies and will be replenished from profits, with the goal of maintaining a targeted reserve amount equal to one year's worth of operating expenses. In a given year, profits will only be returned to the sponsoring societies if the reserve fund level is equal to or great than the targeted reserve fund amount.

From year 3, onwards, a sponsor's percentage of *ToWC*'s annual profit/loss will be in proportion to their "percentage interest" in the journal for that year. Profits will be distributed to sponsors only after all remaining startup costs (not covered by income) have been covered.

STARTUP CONSIDERATIONS

The *Transactions on Wireless Communications* will begin publication in 2002, as a quarterly journal with a page count of 800 pages. This is identical to the page count and publication schedule for *Wireless JSAC* in 2001. It is anticipated that papers that are being submitted now to the *Wireless JSAC* will form the majority content of the new transactions in 2002.

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The Publications Editor for *Wireless JSAC* will become the Publications Editor of the new *Transactions on Wireless Communications*. This will also considerably facilitate a smooth transition between the two journals.

SUBSCRIPTIONS

All of the sponsors and any Technical Co-sponsors will offer the Periodical according to the rates developed by the Steering Committee and confirmed by the sponsors. These rates will be developed by the Steering Committee for non-member subscribers as well as for all classes of IEEE and Society members.

The Periodical may be included in the IEEE All Periodicals Package (APP) and Society APP/EPP Sub-packages, as well as the IEEE Electronic Library. The Periodical shall not be included in any other packages or distributions, in any format, except by approval of the steering committee, such approval not to be unreasonably withheld. The Steering committee shall also determine an equitable sharing of any associated net revenue (after startup cost have been repaid.)

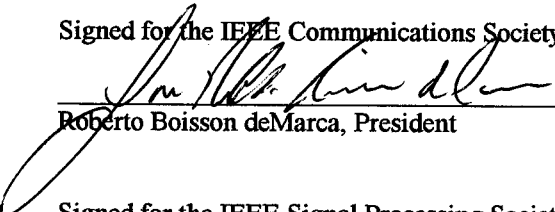
AMMENDMENTS TO THIS AGREEMENT

All amendments to this Agreement, other than those of an administrative nature, will require the unanimous consent of the sponsors.

SIGNATURES

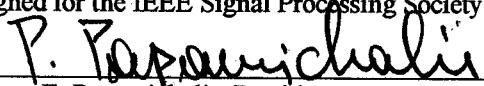
In confirmation of this agreement, the IEEE Communications Society and IEEE Signal Processing Society hereunder provide their signatures:

Signed for the IEEE Communications Society


Roberto Boisson deMarca, President

16/Nov/2001
Date

Signed for the IEEE Signal Processing Society


Panos E. Papamichalis, President

16 Nov 2001
Date

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CHARTER FOR THE STEERING COMMITTEE FOR AN IEEE TRANSACTIONS ON WIRELESS COMMUNICATION

Mandate

The Steering Committee shall act as the Trustee for the *IEEE Transactions on Wireless Communication (ToWC)*, and shall have management responsibility for that publication.

Membership

The membership of the steering committee will consist of at least one representative from every Sponsoring Society. All appointments shall begin on 1 January of the designated beginning year of a term and shall end on 31 December of the designated ending year of a term. A society's steering committee member(s) will be appointed by the society President or his/her equivalent or designee. The appointment of a new steering committee member will be done at least one month in advance of the beginning of the member's term.

Steering Committee members will be appointed to four-year terms, with the exception of the inaugural Steering Committee, whose terms are described below. When a Steering Committee members's term expires, his/her sponsoring Society will appoint a replacement. Steering Committee members may serve more than one term, but no terms may be held consecutively. The members of the Steering Committee shall select a Secretary and a Treasurer from among their membership, each to serve in that post for a term of one year. The Editor-in-Chief of *ToWC* will serve as an ex-officio, non-voting member of the Steering Committee.

As discussed in the "Agreement for an IEEE Transaction on Wireless Communication," the initial sponsoring societies are the IEEE Communications Society (COMSOC) and the IEEE Signal Processing Society (SPS). The initial committee will be made up of three appointees from the IEEE COMSOC, and one member of the IEEE SPS. The terms for COMSOC appointees to the inaugural Steering Committee will be two, three, and four years; the term of the SPS appointee to the inaugural Steering Committee will be four years. An important task of the inaugural steering committee will be to determine the composition of the steering committee in the year 2006 onwards, as discussed below.

The Steering Committee will have a chair, with a chair serving a two-year term. The chair will be appointed from among the current member of the Steering Committee, by the President (or her/his delegate) of the sponsoring society whose turn it is to appoint the Steering Committee chair. The initial chair will be appointed by the Communications Society, and the second chair will be appointed by SPS. After these first two initial appointments, the appointment of a new Steering Committee Chair will be alternated among Sponsors. If a sponsoring society wishes to "pass" on its turn to appoint the Steering Committee chair, it will indicate this in writing to the Steering Committee, and the opportunity to appoint the Steering Committee chair will pass on to the next society. It is most desirable that the Steering Committee chair be named by a Sponsor from among its experienced, past representatives on the Steering Committee. To permit orderly transfer of duties, the chair-elect shall be named at least three months prior to the expiration of the term of the current chair.

During the first three years of the ToWC, 2002-2004, the Steering Committee will be charged with determining the fractional level of participation of ToWC by the

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sponsoring societies. Developing quantitative measures that describe a society's "percentage interest" in a publication is difficult. A role of the inaugural steering committee will be to determine these measures. Some possible metrics that the committee might consider when assessing the level of activity include the percentage of submitted papers fall squarely in an the areas (of each society), the percentage of papers appearing in the journal were first published in a conference (many/most journal papers first appear in a conference), the percentage of subscribership and authors who belong to SPS, COMSOC, both SPS and COMSOC, neither.

The percentage interest of each sponsoring society will be reviewed every three years, and will be used in two important ways as the journal moves forward (years 2005 onwards):

- Determining societal representation on the steering committee (as discussed above)
- Determining distribution of yearly profit/loss among the sponsoring societies in years 2005 onwards.

Every three years, the determined percentage interest of each sponsoring society will be reported to the Sponsors for approval by the Sponsors Vice-President-Publications or his/her equivalent or designee and require unanimous approval of the Sponsors.

Meetings

The Steering Committee shall meet in person at least annually. While members may attend the annual meeting by phone conference or teleconference, it is expected that all members will make a concerted effort to attend in person. Periodic phone conferences on a quarterly basis are recommended as well. For budget planning purposes, one meeting must take place in the First Quarter of each year. In order for action to be taken, each Sponsor must be represented by at least one attendee.

Voting

Each member of the Steering Committee will have one vote. The Editor-in-Chief shall be a non-voting, ex-officio member of the Steering Committee, with ties being broken according to the vote of the Steering Committee chair. In the event a mail ballot is necessary, the results of the ballot must be unanimous.

Duties

The duties of the Steering Committee shall involve the prudent management of the Periodical, including the following activities:

- **Financial:** Each year, with awareness of the IEEE TAB timetable for development of Society budgets, the Steering Committee, under the leadership of the Treasurer, shall develop a three-year-out budget for the Periodical, including: page budget, periodicity, income and expenses. Financial history for the preceding two years shall also be provided. This budget shall be transmitted to each Sponsor at least sixty days in advance of the deadline for budget submission to IEEE Technical Activities, and shall comprise the three-year financial plan for the Periodical. Changes from prior year projections shall be fully explained.



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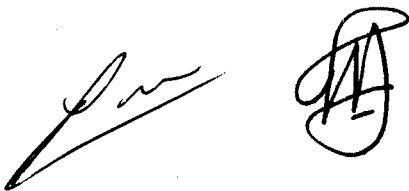
- **Reporting:** Annually, the Steering Committee shall provide to each Sponsor, an annual report of the activities of the Periodical which shall include: the budget (as defined above), information about: the Editorial Board members; number of manuscripts submitted vs. number manuscripts published; data on elapsed time from submission to publication; information regarding changes to the Editors Information Classification Scheme (EDICS); and other pertinent information available from the Administrative Partner to the Agreement.

The Secretary of the Steering Committee shall transmit to all Sponsors a report of action and information items within 15 working days following each meeting of the Steering Committee (including mail ballots).

- **Editorial Board:** The Editor-in-Chief shall be responsible for appointing, with the advice of the Steering Committee, the Associate Editors for the publication who shall form the Editorial Board. The Editor-in-Chief shall provide interface with the Administrative Partner for manuscript handling and manufacture of the Periodical.

The Editorial Board shall comprise not fewer than ten nor more than 100 members with expertise across the disciplines of wireless communications, who shall normally serve terms of two year terms once renewable and shall normally be drawn from the members of each of the Sponsors. The Editorial Board shall be responsible for the technical quality of the Periodical. The Editorial Board, under the leadership of the Editor-in-Chief, shall assure appropriate peer review of submitted manuscripts; timely review and publication of accepted manuscripts; adherence to the page budget; etc. The Editorial Board shall recommend changes to the Editors Information Classification Scheme (EDICS) no later than September of any given year to the Steering Committee for their review, action, and notification to the Administrative Partner. Changes to the EDICS will be published in the first issue of the Periodical each year.

- **Resolution:** Matters of dispute regarding the appropriate review or publication of a manuscript; or between author and reviewer; or between author and associate editor; or between reviewer and editor; or between editor and editor-in-chief shall be negotiated first at the Editorial Board level. If no satisfactory resolution can be reached by the Editorial Board, the matter shall be appealed to the Steering Committee. In any case, all matters of dispute shall be immediately reported to the Editor-in-Chief for dissemination to the Steering Committee members.
- **Amendments:** Administrative updates (addition of the names of Sponsors, corrections to grammar, punctuation, etc.) may be made by the Secretary of the Steering Committee who shall then provide updated copies to all Sponsors and members of the Steering Committee. Amendments to this Steering Committee charter shall be recommended by the Steering Committee for unanimous action by the Sponsors.



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