

# BYLAWS OF THE DIGITAL SIGNAL PROCESSING TECHNICAL COMMITTEE OF THE IEEE CIRCUITS AND SYSTEMS SOCIETY

## Preamble:

The Digital Signal Processing Technical Committee (DSPTC) is a Technical Committee of the Circuits and Systems (IEEE-CAS) Society.

The DSPTC is a subsidiary organization of the IEEE-CAS Society and it is governed by the rules and regulations of the IEEE and by the constitution and bylaws of IEEE-CAS, which take precedence over these bylaws in case of conflict.

**A) Purpose:** The Digital Signal Processing Technical Committee (DSPTC) goal is to promote research in digital signal processing circuits and systems and their applications in electrical engineering and in related fields. Digital Signal Processing includes, but is not limited to:

- (a) Finite and Infinite Impulse Response (FIR and IIR) filters approximation, realization, and implementation,
- (b) Discrete transforms,
- (c) Digital architectures specialized for DSP implementations
- (d) Digital signal processors (DSPs),
- (e) Time-frequency analysis including wavelets and filter banks,
- (f) Adaptive systems,
- (g) DSP application to communications systems,
- (h) Speech, image and video compression, audio signal compression and restoration,
- (i) Implementation of nonlinear systems,
- (j) Optimization of DSP algorithms for VLSI implementations.

**B) Membership:** The Committee shall have two officers: Chair, Secretary (who is also the Chair-elect). Each will serve two-year term.

Membership of the DSP Technical Committee is open to any IEEE CAS member. Membership is approved by a majority of active members present at the Committee's annual meeting following an informal voting via email conducted by the TC Secretary. Membership is by recommendation and by majority vote of the members present at the meeting.

All new members to be nominated should express their interest to be very active members. A member is said to be active if he/she EITHER attends the TC meeting at least once every 3 years OR submit a write-up for inclusion in the TC's annual report at least once every 3 years.

Secretary e-mails to all inactive members to encourage them to be active members. A member is said to be inactive if he/she had never attended ISCAS in the past 5 years and had never submitted any write-up for the TC's annual report in the past 5 years. In this case the member is automatically removed from the Committee.

The Committee shall have up to 50 members.

**C) Meetings:** The Committee shall meet once a year at ISCAS. All business requiring Committee approval will be transacted at that time or by e-mail voting arranged by the secretary.

**D) Duties and Election of Officers:** The Secretary, who will also act as the Treasurer for the Technical Committee, will record the minutes of the yearly meeting and maintain the roll of the Committee. The secretary will be the focal point for the Committee's nominations for CAS Society awards and for nominating transac-

tions papers in the DSP field for the Best Paper Awards. He/She will report on Committee activities through the IEEE Circuits at least once a year (before ISCAS). The Secretary, a member of the Committee and the CAS Society, will be elected by the membership of the Committee present at the annual meeting and will serve for an two-year term that begins immediately after the ISCAS at which he/she was elected.

The Chair will preside over Committee meetings and will be responsible for all interactions with the CAS Society. With the assistance of the Secretary, he/she will report the Committee activities to the CAS Board of Governors. The Chair will also be responsible for recommending Associate Editors for the CAS Transactions.

The Secretary, who also plays the role of Chair-elect and must be a member of the Committee of the CAS Society, will be elected by the members of the Committee present at the annual meeting and will serve a two-year term as Secretary and then two years as Chair. The Chair and Secretary will be responsible for appointing and stimulating Committee member to promote DSP Committee-sponsored special sessions and workshops at ISCAS. The Secretary will assume the chairmanship of the Committee 15 minutes after the start of the DSPTC meeting on the second ISCAS following the ISCAS of his/her election.

Outside of ISCAS the two Officers can, upon a majority vote, undertake unplanned business on behalf of the Committee, provided that these activities be reported to the Committee at the next meeting.

- E) Activities:** The Committee will be responsible for nominating individuals for the various CAS society Awards, and for nominating deserving papers in the DSP area for each of the CAS Society's Best Paper Awards. Every active Committee member has the right to nominate papers and to ask the Secretary to submit the nomination to the CAS Award Committees.

The DSP Technical Committee will organize a special session and/or workshop on DSP at each ISCAS. The Secretary who is elected at an ISCAS will be responsible for coordinating the organization of such an activity at the following ISCAS. (While the newly elected Secretary will be responsible for these activities at the next ISCAS, the Chair is expected to assist.)

The DSP Technical Committee will recommend new Associate Editors for the Transactions of the Society in the field of DSP, and related fields, to the Editorial Board of the CAS Society, if requested. The Committee will accept nominations for these positions and review them at the annual meeting proceeding the term of the incoming editors. The Chair will be responsible for learning when each Editorial Board is going to form and for soliciting nominations from the Committee membership in a timely manner.

The Committee may engage in other activities such as editing reprint books, the organizing of special issues of an IEEE publication, workshops, conferences, and other publication activities in the area of DSP.

- F) Amendments:** Future amendments to these bylaws will be by a majority vote from the DSPTC members present at the annual ISCAS meeting or from majority of the members at large through email. Any bylaw amendment can be introduced at the Committee meeting, provided that at least one of the two Officers has been notified at least one month prior to the Committee meeting. Approval by the Officers is not necessary, but notification is required. An approved amendment will take effect the day following the conclusion of the ISCAS meeting when it has been approved.