

參加IEEE學會活動, Why and How?

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My experiences:

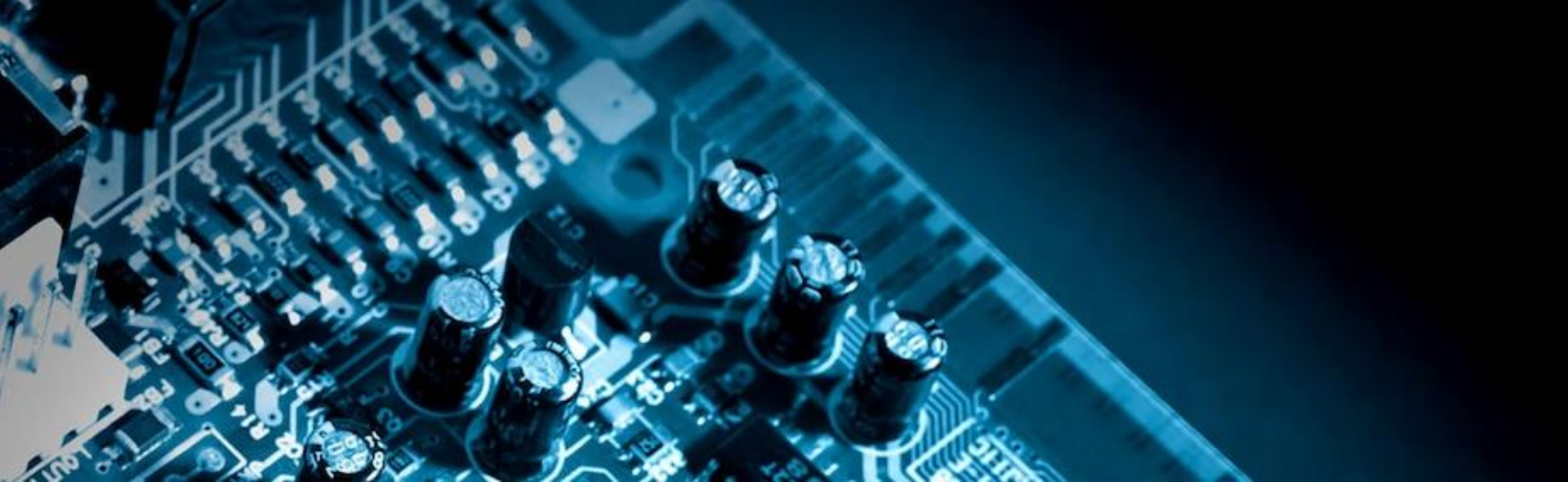
1. Member of IEEE, Why?
2. Publications, Editors
3. Hosting Conferences
4. Senior member, IEEE Fellow



Hsueh-Ming Hang 杭學鳴

- 1984: Ph.D. in EE, RPI (Rensselaer Polytechnic Inst.), NY, USA
- 1978,1980: BS and MS, Chiao Tung Univ., Hsinchu
- 1991.11~: Nat'l Chiao-Tung Univ., Professor
- 2014.2~: NCTU, ECE College, Dean
- 2006.8~2009.7: Nat'l Taipei Univ Tech, EECS College, Dean
- 1998.11~2004.7: NCTU, Telecom Research Center, Director
- 1984.6~1991.11: AT & T Bell Labs., USA; MTS
- 2008: IET Fellow
- 2002: IEEE Fellow
- 2000: IEEE Third Millennium Medal
- Associate Editor, *IEEE Trans Image Processing* (1992-1994, 2008-2012),
IEEE Circuits and Systems for Video Technology (1997-1999)





IEEE Circuits and Systems Society

Opportunity for Professional Development

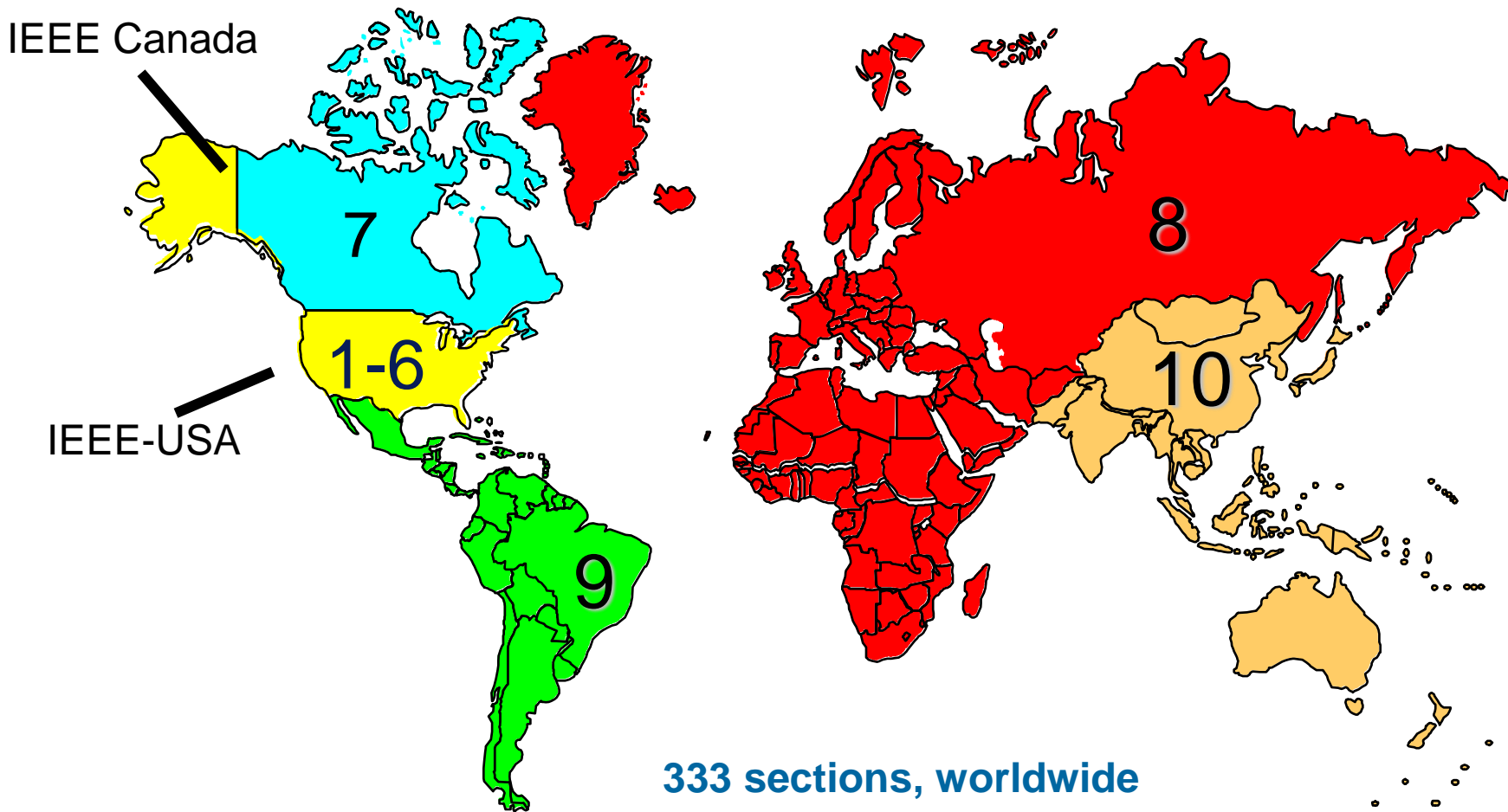
For more information and to join CASS, visit:

IEEE-CAS.ORG

Introduction to IEEE

- ▶ More than 425,000 members including nearly 116,000 student members in more than 160 countries
- ▶ 333 sections in ten geographic regions worldwide
- ▶ 2,195 chapters
- ▶ 2,354 student branches and 800 student branch chapters at colleges/universities in 80 countries
- ▶ 38 societies (e.g. CAS) and 7 technical councils (e.g. CEDA)

IEEE Regions



What is CASS?

- ▶ CASS is one of the 38 Technical Societies of IEEE with over 11,000 members
- ▶ **Mission**
Our mission is to foster CASS members across disciplines to address humanity's grand challenges by conceiving and pioneering solutions to fundamental and applied problems in circuits and systems.

CASS Publications

- ▶ CASS is (major co-)sponsor of following journals:
 - IEEE Transactions on Circuits and Systems I: Regular Papers (EiC: Shanthi Pavan)
 - IEEE Transactions on Circuits and Systems II: Express Briefs (EiC: Jose Silva-Martinez)
 - IEEE Transactions on Circuits and Systems for Video Technology (EiC: Dan Schonfeld)
 - IEEE Journal on Emerging and Selected Topics in Circuits and Systems (EiC: Manuel Delgado Restituto)
 - IEEE Transactions on Biomedical Circuits and Systems (EiC: Gert Cauwenberghs)
 - CAS Magazine & CAS Electronic Newsletter (EiC: C. K. (Michael) Tse)

CASS Conferences and Workshops

- ▶ CASS organizes many international conferences and workshops:
 - International Symposium on Circuits and Systems (ISCAS) is CAS' flagship conference (about 1200-1300 delegates)
 - conferences : BioCAS, ASP-DAC, MWSCAS, APCCAS, ICECS, LASCAS, etc.
 - smaller workshops: ICCSN, ICGCS, etc.
- ▶ CASS can also be a financial sponsor or a technical co-sponsor
 - CASS views conference and workshop sponsorship as an important opportunity and evaluates sponsorship requests on a variety of areas including technical program and committee strength, financial health, CASS member involvement, etc.

CASS Technical Activities

- ▶ CASS has 15 Technical Committees promoting technical activities in various areas (Analog/Digital Signal Processing, Biomedical Circuits, EDA, Nonlinear Circuits, etc.)
- ▶ It is easy to join these committees (they meet once a year at ISCAS, CAS' flagship conference), all Technical Committees are listed at ieee-cas.org

CASS Member Benefits

- ▶ CASS sponsored conferences offer an **additional discount to CASS members on their registration fee** (ISCAS, BioCAS)
- ▶ Free online access to all CASS sponsored publications is available for CASS Student members
- ▶ CASS sponsors a yearly pre-doctoral Scholarship (\$25k) to support 2 CASS Student members to travel and stay abroad
- ▶ CASS is supporting initiatives from all of its members (a total of over \$1 million has been funded so far)
- ▶ CASS is sponsoring a new IEEE Journal on Emerging and Selected Topics in Circuits and Systems (JETCAS) to continue the traditions to be at the lead of innovation. The journal is offered for free (in electronic format) to all CASS members

Conclusion

Professional Recognition by CASS awards

Participation in conference organization

Be informed on the latest developments via DLP

Networking at Conferences and with other members

There are many great reasons to be(come) a CASS member

Receive Top level Journals in your area

Editorial board membership

Participation to Technical Committees

IEEE Membership

- 專業領域的成長 Professional growth
- 歸屬感
- 專業知識 – journals, conferences
- 工作資訊 – 徵人廣告
- 工程師: IEEE Consumer Electronics Society
- Participate in one or two specific societies

Publication/Editor

- Author
- **Reviewer:** 比他人早一年得到他人研究資訊。
- **Editor:** “rules of game”

擔任期刊編輯，了解處理投稿的程序，了解Reviewers常有的觀點與批評。付出時間，但結識朋友(和「仇家」)。

- Special Issue guest editor
- Associate editor: Chief editor

Technical Committee

- 人際網路的建立
- Member of IEEE CASS Technical Committee on **Visual Signal Processing and Communications**, 1991--
- Organize conferences
- Support transactions
- Nominate Distinguished Lecturer
IEEE CASS DL, 2014-2015
APSIPA DL, 2012-2013

Conferences

- Attendee (author, reviewer)
- Session organizer; session chair,
- Conf. organizer (general/technical chair)
- Invited speakers; Keynote speakers
- 參加Conf., 許多資訊是在台下交流(在正式報告之外)。
- “從小做起” – 小型會議開始
- Persistent!

My Experiences

- **Technical program chair**, SPIE Conference on *Visual Communications and Image Processing*, Taipei, Taiwan, May 1995.
- **Technical program co-chair** (organizer), IEEE *Int'l Symposium on Consumer Electronics*, Taipei, Oct. 1998.
- **Technical program co-chair**, IEEE *Workshop on Signal Processing Systems*, Taipei, Taiwan, Oct. 1999.
- **General co-chair**, IEEE *Int'l Conf. on Image Processing (ICIP)*, Taipei, 2019

Senior Member/Fellow

- Senior Member: 10 years of professional practice; significant performance over 5 years
- Fellow: an honor in a professional society
- IEEE member with an **extraordinary record** of accomplishments in any IEEE field of interest.
- The total number selected in any one year does not exceed **one-tenth of one percent** of the total voting Institute membership.
- Categories: 1) Application Engineer/Practitioner
2) Educator; 3) Research Engineer/Scientist
4) Technical Leader

- ◆ Plan your future
- ◆ Establish human network
- ◆ Join IEEE and grow your professional carrier

➤ Questions?

