

2009 IEEE Circuit and Systems Awards

Every year the IEEE Circuits and Systems Society (CAS) recognizes individuals who have paid outstanding contributions to the technical fields covered by the Society. We select deserving individuals for each of the CAS Awards that are handed out annually (and one Award biannually).

In addition, CAS presents Best Paper Awards annually to authors of selected best papers published in the Society's journals in one of the two preceding years. All are selected by a dedicated committee after a call for nominations which is open to the entire membership.

The following are the recipients of the 2009 CAS Awards:

IEEE Gustav Robert Kirchhoff's Award — Ernest S. Kuh

For outstanding contributions to theory and practice in circuits and systems and for pioneering work in electronics design automation.

IEEE CAS Society Mac Van Valkenburg Award — Gabor C. Temes

For pioneering research on the theory and design of analog filters, switched-capacitor circuits and delta-sigma data converters, and for contributions to engineering education through widely used professional and text books, as well as the mentoring of hundreds of successful electronics engineers.

IEEE CAS Society Technical Achievement Award — Yoji Kajitani

For sustained and outstanding seminal technical contributions for nearly four decades to the foundation of electrical circuit theory, VLSI CAD and graph theory.

IEEE CAS Society Education Award — Andreas Antoniou

For demonstrating leadership in the establishment of new innovative undergraduate and graduate programs in electrical and computer engineering, authored textbooks on digital filters, digital signal processing, and optimization, presented numerous lectures, plenary talks, and tutorials worldwide, supervised many graduate students, and published extensively in prestigious journals.

IEEE CAS Society Meritorious Service Award — Ellen Yoffa

For dedicated service to the IEEE CAS Society and its membership and for leadership and technical contributions in the field of electronic design automation.

IEEE CAS Society Meritorious Service Award — Magdy A. Bayoumi

For outstanding long-term service and dedication to the CAS Society; for taking initiatives that have long lasting impact and meaningful value to the CAS members in several areas: conferences, technical activities, publications, reaching out, and Society visibility.

IEEE CAS Society Industrial Pioneer Award — Paul E. Jacobs

Paul E. Jacobs' vision of wireless data services has been pioneering and transformational in the worldwide cellular industry. At Qualcomm, starting from the development of the first Palm OS based Smartphone, and now in his capacity as CEO, he has grown company revenues to over \$10B through this vision.

IEEE CAS Society Vitold Belevitch Award — Ronald A. Rohrer

For advancing circuit theory to solve practical circuit design problems with everlasting impact on the global electronic industry.

IEEE CAS Society Outstanding Young Author Award — Stefan Tertinek

For the paper entitled "Reconstruction of nonuniformly sampled bandlimited signals using a differentiator-multiplier cascade," IEEE Transactions on Circuits and Systems I: Regular Papers, vol. 55, no. 8, pp. 2273-2286, September 2008. (with Christian Vogel).

IEEE CAS Society Transactions on Circuits and Systems Guillemín-Cauer Best Paper Award — Young-Gyu Yoon, Jaewook Kim, Tae-Kwang Jang and SeongHwan Cho

For the paper entitled "A time-based bandpass ADC using time-interleaved voltage-controlled oscillators," IEEE Transactions on Circuits and Systems I: Regular Papers, vol. 55, no. 11, pp. 3571-3582, November 2008.

IEEE CAS Society Transactions on Circuits and Systems Darlington Best Paper Award – Shanthi Pavan

For the paper entitled “Power and area-efficient adaptive equalization at microwave frequencies,” IEEE Transactions on Circuits and Systems I: Regular Papers, vol. 55, no. 6, pp. 1412-1420, July 2008.

IEEE CAS Society CSVT Transactions Best Paper Award – Dong Liu, Xiaoyan Sun, Feng Wu, Shipeng Li and Ya-Qin Zhang

For the paper entitled “Image compression with edge-based inpainting,” IEEE Transactions on Circuits and Systems for Video Technology, vol. 17, no. 10, pp. 1273-1287, October 2008

IEEE CAS Society CSVT Transactions Best Paper Award – Heiko Schwarz, Detlev Marpe and Thomas Wiegand

For the paper entitled “Overview of the scalable video coding extension of the H.264/AVC standard,” IEEE Transactions on Circuits and Systems for Video Technology, vol. 17, no. 9, pp. 1103-1120, September 2008.

IEEE CAS Society VLSI Transactions Best Paper Award – Mahalingam Venkataraman, Justin E. Harlow III and Nagarajan Ranganathan

For the paper entitled “A fuzzy optimization approach for variation aware power minimization during gate sizing,” IEEE Transactions on VLSI Systems, vol. 16, no. 8, pp. 975-984, August 2008.

IEEE CAS Society Chapter of the Year Award – IEEE Macau Joint-Chapter on CAS/COM

Rui Paulo da Silva Martins, Chapter Chair.

IEEE CAS Society Regions 1-7 Chapter of the Year Award – IEEE CAS Ottawa Chapter

Ram Achar, Chapter Chair.

**IEEE CAS Society Region 10 Chapter of the Year Award – IEEE CAS Society
Singapore Chapter**

Lap-Pui Chau, Chapter Chair