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His research interests have constantly been on biological-inspired nano-circuits and brain-inspired nano-architectures for VLSI-efficient designs (ultra-low power and highly reliable), being funded at over US$ 51M. On such topics he gave over 200 invited talks, organized over 120 conferences, chaired over 60 sessions, has edited 2 books, and has authored over 230 journal/conference articles (30 invited), as well as 8 chapters and 11 patents.

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