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TAN specializes in power electronics and control. He has published works in nonlinear and sliding mode control applications, LED lighting control, electric springs, and switched-capacitor converters. His research outputs, to date, include 2 research monographs, 2 book chapters, 93 journal papers, and 77 conference papers. He has also obtained 15 patents for his work, with 3 pending patent applications. His recent awards include (1) Best Paper Award at IEEE ECCE 2016, (2) Outstanding Presentation Award at IEEE APEC 2016, (3) Best Student Poster Presentation Award at IEEE ECCE 2015, and (4) Second Prize Paper Award at IEEE PEDG 2014. His published works are listed in [Google Scholar](#).

TAN is an active member of IEEE, serving as Associate Editor of IEEE TPEL and reviewer of many IEEE transactions and journals. He served as Organizing Committee Co-Chair for IEEE Workshop on Emerging Technologies: Wireless Power, Canada, 2018 and Technical Program Committee Co-Chair for IEEE International Conference on Smart Grid Communications, U.S.A., 2015. He had also served as technical committee member and review committee member in several international conferences. He is currently Member, Appeal Board Panel under Electricity Ordinance (Chapter 406), The Government of the Hong Kong Special Administrative Region. He is a practicing consultant and has worked on projects involving power outages and lithium battery testing.

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