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## Tian-Bo Deng

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**Tian-Bo Deng** received his Ph.D. degree in electronic engineering from Tohoku University, Sendai, Japan, in 1991. He is a Professor with the Department of Information Science, Faculty of Science, Toho University (Japan), where he was an Assistant Professor in 1994, and became an Associate Professor in 1998. From 1991 to 1992, he was an Assistant Professor with the Department of Information and Computer Sciences, Toyohashi University of Technology, Toyohashi, Japan. In 1992, he was selected by the Japanese Government as a Special Researcher for carrying out the Basic-Science-Program at the Institute of Physical and Chemical Research (RIKEN), Wako, Japan. From 1998 to 1999, he was also a Visiting Professor with the Department of Electrical and Computer Engineering, University of Victoria, Canada. Dr. Deng is the **single-author or first-author of more than 400 papers including over 30 IEEE Transactions papers**. His research interests focus on the design and implementation of variable one-dimensional (1-D) and variable multi-dimensional (M-D) filters. Dr. Deng has received **20 paper awards** (as of May 8, 2026), including

- ★ **Best Paper Award**  
The 2006 IEEE International Symposium on Communications and Information Technologies (IEEE ISCIT 2006)
- ★ **Best Paper Award**  
The 2011 IEEE International Conference on Information, Communications and Signal Processing (IEEE ICICS 2011)
- ★ **Best Paper Award**  
The 2013 IEEE International Symposium on Communications and Information Technologies (IEEE ISCIT 2013)
- ★ **Best Paper Award**  
The 2014 Hong Kong International Conference on Engineering and Applied Science (HKICEAS 2014)
- ★ **Best Paper Award**  
The 2017 IEEE International Conference on Computer, Information, and Telecommunication Systems (IEEE CITS 2017)
- ★ **Best Paper Award**  
The 2018 International Conference on Intelligent and Advanced System (IEEE ICIAS 2018)
- ★ **Best Paper Award**  
The 2019 Asia-Pacific Conference on Applied Mathematics and Statistics (AMS 2019)
- ★ **Best Paper Award**  
The 2019 International MultiConference of Engineers and Computer Scientists (IMECS 2019)
- ★ **Best Paper Award**  
The 2023 IEEE Malaysia International Conference on Communications (IEEE MICC 2023)
- ★ **Best Paper Award**  
The 2024 IEEE International Conference on Information Networking (IEEE ICOIN 2024)
- ★ **Best Paper Award**  
The 2024 IEEE Symposium on Wireless Technology & Applications (IEEE ISWTA 2024)
- ★ **Best Paper Award**  
The 2025 IEEE International Conference on Communication Engineering and Emerging Technologies (IEEE ICoCET 2025)
- ★ **Best Paper Award**  
The 2026 International Symposium on Systems Modelling and Simulation (SMS 2026, Springer Nature)
- ★ **6 Best Presentation Awards + 1 Certificate of Merit**

Dr. Deng also received Nukada Outstanding Research Award from Toho University (Japan) in 2003. He served as Special Session Chair for 2004 IEEE International Symposium on Communications and Information Technologies (IEEE ISCIT'04), Publicity Chair for 2010 International Workshop on Information Communication Technology (ICT 2010), Special Session Chair for 2012 International Conference on Embedded Systems and Intelligent Technology (ICESIT 2012), and Technical Program Committee (TPC) member as well as session chairs for many IEEE international conferences, and was the organizer of Special Sessions on variable digital filters at IEEE ISCAS'03, IEEE MWSCAS'04, and IEEE ICGCS'10. He served as an Editorial Board member of *Signal Processing* (Elsevier) from Apr. 2009 to Mar. 2012, a member of IEICE CAS Technical Committee (Japan) from May 2009 to Mar. 2012, a member of Digital Signal Processing (DSP) Technical Committee of the IEEE Circuits and Systems (CAS) Society from May 2006 to Dec. 2014, and an Associate Editor (AE) for *IEEE Trans. Circuits and Systems II: Express Briefs* from Jan. 2012 to Dec. 2013.