

## Professor Pei Dang

Department of Engineering Science, Faculty of Innovation Engineering  
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### Academic Qualification:

2007-2011 Ph.D / Mathematics / University of Macau

2005-2007 Master /Mathematics / Wuhan University

2001-2005 Bachelor / Mathematics / Henan Normal University

### Teaching Area

Calculus, linear algebra, advanced mathematics

### Research Area

Harmonic analysis, Complex analysis, Time-frequency analysis

### Working Experience

2023.07-present Professor/ Faculty of Innovation Engineering/ Macau University of Science and Technology

2022.05-2023.06 Associate Professor/ Faculty of Innovation Engineering/ Macau University of Science and Technology

2016.07-2022.05 Associate Professor / Faculty of Innovation Engineering/ Macau University of Science and Technology

2011.11-2016.06 Assistant Professor / Department of General Education/ Macau University of Science and Technology

2019.09-2011.10 Lecture / Department / Department of General Education/ Macau University of Science and Technology

### Academic Publication selected

1. Pei Dang, Weixiong Mai, Wenliang Pan, Uncertainty principle in random quaternion domains, Digital Signal Processing, vol. 136, 103988, May 2023, DOI: 10.1016/j.dsp.2023.103988.

2. Pei Dang, Chuang Li, Weixiong Mai, Wenliang Pan, Uncertainty principles for random signals, Applied Mathematics and Computation, vol.444, 1 May 2023, <https://doi.org/10.1016/j.amc.2023.127833>.

3. Pei Dang, Weixiong Mai, Tao Qian, Adaptive Decompositions in Monogenic Reproducing Kernel Hilbert Spaces of

w.

Advances in Applied Clifford Algebras, 2022, 32(4): 1-29.

5. Pei Dang, Jinvuan Du, Tao Qian, Riemann Boundary Value Problems for Monogenic Functions on the Hyperplane.

6. Hongfang Bai, Ieng Tak Leong, Pei Dang, Reproducing Kernel Representation of the Solution of Second Order Linear Three-point Boundary Value Problem, Mathematical Methods in the Applied Sciences, 10.1002/mma.8443, 2022.

7. Xiaoyun Sun, Pei Dang, Ieng Tak Leong, Min Ku, Effective numerical evaluation of the double Hilbert transform, Mathematical Methods in the Applied Sciences, vol. 43, no. 7, pp. 4086-4106, 15 May 2020

8. Weifeng Li, Pei Dang, Zhihua Du, Guoan Guo Yumei Li, Lp polyharmonic Robin problems on Lipschitz domains, Complex Variables and Elliptic Equations, vol. 65, no. 10, pp. 1777-1791, 2 OCT 2020

9. Pei Dang, Weixiong Mai, A remark on Riesz bases of subspaces in Hardy spaces, Complex Variables and Elliptic Equations. vol. 65. no. 11. pp. 1950-1961. November 1 2020.

## Books

New Trends in Analysis and Interdisciplinary Applications, by Pei Dang, Min Ku, Tao Qian and Luigi G. Rodino, Birkhäuser Basel, 2017.

## Patents selected

## Professional Certification and Awards

2016.10.12 A third prize of Macau Natural Science Award

## Student Awards

## Professional Society Membership