

Bing Tan

Master student

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Research Interests

Optimization algorithms, theory, applications

Variational inequality

Image Processing

Education

2018 – 2021 **Masters of Mathematic**, *Institute of Fundamental and Frontier Sciences*, University of Electronic Science and Technology of China, China.

Supervisor: Prof. Songxiao Li and Prof. Xiaolong Qin

2014 – 2018 **Bachelor of Mathematic**, *School of Science*, Southwest Petroleum University, China.

Publications

Journal papers

JAAC **Bing Tan**, Zheng Zhou, Xiaolong Qin*. Accelerated projection-based forward-backward splitting algorithms for monotone inclusion problems. *J. Appl. Anal. Comput.* 2020, in press.

Mathematics **Bing Tan**, Shanshan Xu, Songxiao Li*. Modified inertial hybrid and shrinking projection algorithms for solving fixed point problems. *Mathematics* 2020, 8(2), 236.

Mathematics Yinglin Luo, Meijuan Shang*, **Bing Tan**. A general inertial viscosity type method for nonexpansive mappings and its applications in signal processing. *Mathematics* 2020, 8(2), 288.

JNCA **Bing Tan**, Shanshan Xu, Songxiao Li*. Inertial shrinking projection algorithms for solving hierarchical variational inequality problems. *J. Nonlinear Convex Anal.* 2020, in press.

JNCA Yinglin Luo, **Bing Tan***, A self-adaptive inertial extragradient algorithm for solving pseudo-monotone variational inequality in Hilbert spaces. *J. Nonlinear Convex Anal.* 2020, in press.

JNCA Liya Liu*, **Bing Tan**, Sun Young Cho*. On the resolution of variational inequality problems with a double-hierarchical structure. Submitted to *J. Nonlinear Convex Anal.* 2020, 21(2):

Preprints

JAAC Zheng Zhou*, **Bing Tan**, Songxiao Li. An inertial shrinking projection algorithm for split common fixed point problems. Submitted to *Journal of Applied Analysis and Computation*.

NFAO Jingjing Fan, Xiaolong Qin*, **Bing Tan**. Convergence of an inertial shadow Douglas-Rachford splitting for monotone inclusions. Submitted to *Numerical Functional Analysis and Optimization*.

Optimization Zheng Zhou*, **Bing Tan**, Songxiao Li. A new accelerated self-adaptive stepsize algorithm with excellent stability for split common fixed point problems. Submitted to *Optimization*.

AA **Bing Tan**, Songxiao Li, Xiaolong Qin*. Strong convergence of inertial Mann algorithms for solving hierarchical fixed point problems. Submitted to *Applicable Analysis*.

Awards

- 2019 First-class scholarship of University of Electronic Science and Technology of China.
- 2018 Second-class scholarship of University of Electronic Science and Technology of China.

Computer skills

MATLAB, \LaTeX , Microsoft Office.