Bing Tan

Master student

Institute of Fundamental and Frontier Sciences
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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

JNCA **Bing Tan**, Shanshan Xu, Songxiao Li*. Inertial shrinking projection algorithms for solving hierarchical variational inequality problems. Accepted by *Journal of Nonlinear and Covnex Analysis*. (2020)

JNCA Yinglin Luo, **Bing Tan***, A self-adaptive inertial extragradient algorithm for solving pseudo-monotone variational inequality in Hilbert spaces. Accepted by *Journal of Nonlinear and Covnex Analysis*. (2020)

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

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

Preprints

JNCA Liya Liu*, **Bing Tan**. On the resolution of variational inequality problems with a double-hierarchical structure. Submitted to *Journal of Nonlinear and Covnex Analysis*.

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*.

JAAC **Bing Tan**, Zheng Zhou, Xiaolong Qin*. Accelerated projection-based forward-backward splitting algorithms for monotone inclusion 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*.

Mathematics Zheng Zhou*, **Bing Tan**, Songxiao Li, Xiaolong Qin. Self-adaptive-type algorithms for solving split equality problems. Submitted to *Mathematics*.

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*.

ASVAO **Bing Tan***, Shanshan Xu. Strong convergence of two inertial projection algorithms in Hilbert spaces. Submitted to *Applied Set-Valued Analysis and Optimization*.

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

JNCA **Bing Tan**, Shanshan Xu, Songxiao Li, Xiaolong Qin*. Inertial hybrid and shrinking projection algorithms for solving variational inequality problems. Submitted to *Journal of Nonlinear and Convex Analysis*.

MMA **Bing Tan**, Zheng Zhou, Songxiao Li*. Strong convergence of modified inertial Mann algorithms for nonexpansive mappings. Submitted to Mathematical Methods in Applied Sciences.

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

Updated by February 12, 2020