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Volume: 6 Issue: 1 Page: 89-122

DOI: [10.23952/jnva.6.2022.1.06](#)

Published

2022

Indexed

2022-04-22

Document Type

Article

Abstract

This paper introduces several new accelerated subgradient extragradient methods with inertial effects for approximating a solution of a pseudomonotone equilibrium problem and a fixed point problem involving a quasi-nonexpansive mapping or a demicontractive mapping in real Hilbert spaces. The proposed

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algorithms use an adaptive non-monotonic step size criterion that does not include any Armijo line search process. Strong convergence theorems of the suggested iterative algorithms are established without the prior knowledge of the Lipschitz constants of the bifunction. Moreover, R-linear convergence is guaranteed under the assumption that the bifunction satisfies strong pseudomonotonicity. Applications to variational inequality problems are also considered. Finally, some numerical examples and applications, which demonstrate the advantages and efficiency of the proposed algorithms, are given.

Keywords

Author Keywords: [Equilibrium problem](#); [Fixed point problem](#); [Inertial method](#); [Pseudomonotone bifunction](#); [Subgradient extragradient method](#)

Keywords Plus: [VARIATIONAL INEQUALITY PROBLEM](#); [MONOTONE-OPERATORS](#); [PROJECTION](#)

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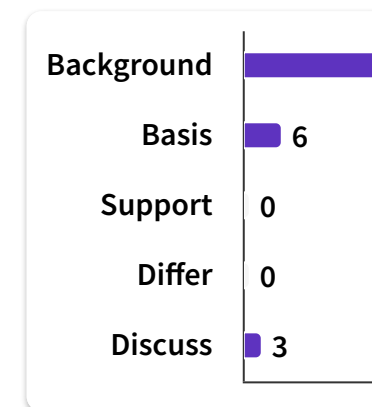
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MOST	108-2115-M-039-005-MY3

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ISSN 2560-6921

eISSN 2560-6778

Current Publisher BIEMDAS ACAD PUBLISHERS INC, BIEMDAS, 10115 119 AVE, EDMONTON, Alberta T5G 0R2, CANADA

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