Modified subgradient extragradient method for approximating of the system of general equilibrium problem and fixed point problem

Kanyanee Saechou<sup>1</sup> and Atid KANGTUNYAKARN<sup>1</sup>

<sup>1</sup>King Mongkutś Institute of Technology Ladkrabang

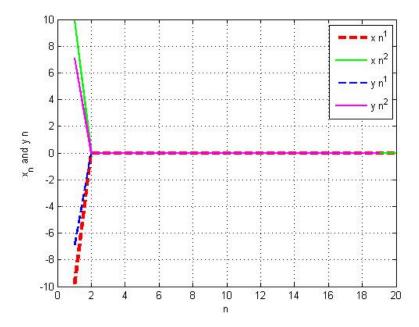
May 5, 2020

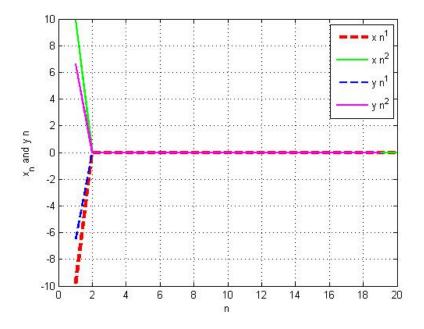
## Abstract

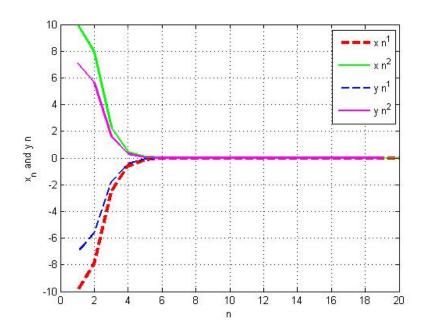
In this paper, we introduce the system of general equilibrium problem (SGEP) and new subgradient extragradient by using the concept of the set of solution of the modified variational inequality problem introduced by (missing citation). Then, we establish and prove weak and strong convergence theorem of the new subgradient extragradient algorithm for finding the set of the solutions of the SGEP under some suitable conditions of  $\alpha_n$  and  $\alpha_n$  with  $\alpha_n$  with  $\alpha_n$  with  $\alpha_n$  with  $\alpha_n$  and  $\alpha_n$  with  $\alpha_n$  with  $\alpha_n$  and  $\alpha_n$  with  $\alpha_n$  and  $\alpha_n$  with  $\alpha_n$  with  $\alpha_n$  and  $\alpha_n$  with  $\alpha_n$  with  $\alpha_n$  and  $\alpha_n$  with  $\alpha_n$  and  $\alpha_n$  with  $\alpha_n$  with  $\alpha_n$  and  $\alpha_n$  with  $\alpha_n$  with  $\alpha_n$  and  $\alpha_n$  with  $\alpha_n$  with  $\alpha_n$  with  $\alpha_n$  with  $\alpha_n$  and  $\alpha_n$  with  $\alpha_n$  wi

## Hosted file

modified subgradient (2).pdf available at https://authorea.com/users/299701/articles/429171-modified-subgradient-extragradient-method-for-approximating-of-the-system-of-general-equilibrium-problem-and-fixed-point-problem







## References