

Dedicated to Prof. Hong-Kun Xu on the occasion of his 60<sup>th</sup> anniversary

## Split equality fixed point problems for asymptotically quasi-pseudocontractive operators

YAQIN WANG<sup>1†</sup>, YANLAI SONG<sup>2</sup>, XIAOLI FANG<sup>1</sup> and TAE-HWA KIM<sup>3\*</sup>

### ABSTRACT.

In this paper, we consider a split equality fixed point problem for asymptotically quasi-pseudo contractive operators which includes split feasibility problem, split equality problem, split fixed point problem etc, as special cases. Furthermore we propose a new algorithm for solving the split equality fixed point problem, and prove a weak and strong convergence theorem. The results obtained in this paper generalize and improve the recent ones announced by many others.

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Corresponding author: Tae-Hwa Kim; taehwa@pknu.ac.kr

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<sup>1</sup>DEPARTMENT OF MATHEMATICS  
SHAOXING UNIVERSITY  
SHAOXING 312000, CHINA  
*Email address:* wangyaqin0579@126.com  
*Email address:* fx10418@126.com

<sup>2</sup>ZHONGYUAN UNIVERSITY OF TECHNOLOGY  
COLLEGE OF SCIENCE  
ZHENGZHOU 450007, CHINA  
*Email address:* songyanlai2009@163.com

<sup>3</sup>DEPARTMENT OF APPLIED MATHEMATICS  
PUKYONG NATIONAL UNIVERSITY  
BUSAN 48513, KOREA  
*Email address:* taehwa@pknu.ac.kr