

## INTRODUCING FULLY UP-SEMIGROUPS<sup>1</sup>

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### Abstract

In this paper, we introduce some new classes of algebras related to UP-algebras and semigroups, called a left UP-semigroup, a right UP-semigroup, a fully UP-semigroup, a left-left UP-semigroup, a right-left UP-semigroup, a left-right UP-semigroup, a right-right UP-semigroup, a fully-left UP-semigroup, a fully-right UP-semigroup, a left-fully UP-semigroup, a right-fully UP-semigroup, a fully-fully UP-semigroup, and find their examples.

**Keywords:** semigroup, UP-algebra, fully UP-semigroup.

**2010 Mathematics Subject Classification:** 08A99, 03G25.

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<sup>1</sup>This work was financially supported by the University of Phayao.

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Received 9 September 2018  
Revised 21 September 2018  
Accepted 26 September 2018