

INT-SOFT GENERALIZED BI- Γ -IDEALS OF PO- Γ -SEMIGROUPS

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ABSTRACT. In this paper, our aim is to apply soft set theory to the algebraic structure of po- Γ -semigroup and to develop ideal theory of po- Γ -semigroup based on int-soft sets. We will extend the concept of int-soft generalized bi-ideal and int-soft bi-ideal of a po-semigroup to int-soft generalized bi- Γ -ideal and int-soft bi- Γ -ideal of po- Γ -semigroup and investigate its properties in regular and left weakly regular po- Γ -semigroup. We characterize regular and left weakly regular po- Γ -semigroup in terms of int-soft generalized bi- Γ -ideal and int-soft bi- Γ -ideal.

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Received: February 12, 2020. *Revised:* July 05, 2020.

2010 Mathematics Subject Classification: 06F05.

Key words and phrases: Int-soft left (resp. right) Γ -ideal, int-soft generalized bi- Γ -ideal, int-soft bi- Γ -ideal, regular, left weakly regular.

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