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#### A study of generalized fuzzy ideals in ordered semigroups ...

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Abstract. Let  $S$  be an ordered semigroup. In this paper we first introduce the concepts of  $(\in, \in vqk)$ -fuzzy ideals,  $(\in, \in vqk)$ -fuzzy bi-ideals and  $(\in, \in vqk)$ -fuzzy generalized bi-ideals of an or-

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Several fundamental theorems of ordered semigroups are investigated by the properties of these newly defined fuzzy generalized bi-ideals. Further, using level sets, ordinary fuzzy generalized bi-ideals are linked with these newly defined ideals which is the most significant part of this paper. PMCID: PMC4030498 PMID: 24883375

In 2016, Jagatap defined the concept of bi-ideals in a  $\ast$ -semiring and studied properties of bi-ideals in

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In order to find more general forms of an interval valued  $(\in, \in \vee q)$ -fuzzy generalized bi-ideal in ordered semigroups, we have introduced the notion of an interval valued  $k(\cdot, q)$

On Generalized Anti Fuzzy Bi-Ideals in Ordered  $\Gamma$ -Semigroups S. Lekkoksung and N. Lekkoksung Rajamangala University of Technology Isan Khon Kaen Campus, Thailand Lekkoksung.somsak@hotmail.com Abstract In this paper, we introduce the concept of an anti fuzzy bi-ideal of ordered  $\Gamma$ -Semigroups by using the notion of anti fuzzy points and

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In this paper, we define fuzzy generalized bi-ideals in ordered semigroups and we characterize regular and left weakly regular ordered semigroups by the properties of their fuzzy generalized bi-ideals. Fuzzy subsets, regular, left weakly regular ordered semigroups, left (resp. right, bi- and generalized bi-) ideals, fuzzy left (resp. right, bi- and generalized bi-) ideals in ordered semigroups

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