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Authors:

K.Megalai

Dr.A.Tamilarasi

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## Abstract

In this paper, the notion of TM-algebra is introduced which is a generalization of Q/BCI/BCH-algebras. The concepts of positive implicative, implicative, 1-weakly positive implicative, 2-weakly positive implicative, right translation, left translation, weak right translation, weak left translation and the related properties are duly characterized.

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### Index Terms

Computer Science

Soft Computing

### Key words

TM-Algebra

implicatives

weakly and positive implicatives

right and left translation