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.

Reference

Classification of TM-Algebra

- Tao Sun, Dahai Hu and Xiquan Liang, Several classes of BCK-algebras and their properties, Formalized Mathematics 2007, vol.15.

Index Terms

Computer Science

Soft Computing

Key words

TM-Algebra

implicatives

weakly and positive implicatives

right and left translation