On algebraic structures weaker than pre-rough algebra and their logics

Anirban Saha

Abstract

In this talk a cluster of algebraic structures weaker than pre-rough algebra will be discussed. Their properties and interrelations will be investigated. Logics, both Hilbert type axiomatization and sequent calculi, for these algebras will be presented. These algebraic structures may be considered as generalizations of rough set algebra. Some of the algebras are observed to be quite rich in structure and hence bear the potentiality of generating concrete rough set models for specific usages.