Ultrafilter equations

Mai Gehrke

Laboratoire d'Informatique Algorithmique: Fondements et Applications
University of Paris Diderot - Paris 7

A powerful tool for characterizing classes of regular languages is provided by Reitermans theory of profinite equations. Stone duality allows a generalization of this theory to so-called ultrafilter equations which are available for complexity classes beyond the regular fragment. In this talk we give an introduction to this concept and show how it may be used to characterize a certain class of languages related to a Boolean circuit complexity class.