**ILIAS KOTSIREAS**, Wilfrid Laurier University, 75 University Avenue West, Waterloo, Ontario N2L 3C5, Canada Systems of Polynomial Equations in Combinatorial Design Theory

Combinatorial Design Theory is a rich source of challenging systems of polynomial equations, mainly of dimension zero. We will describe some classes of such systems as well as some of the different methods that are used to tackle them. These methods come from different disciplines, such as Computer Algebra, Artificial Intelligence, Combinatorics and Discrete Mathematics, while Supercomputing is often a useful aid.