## **LUCIA MOURA**, University of Ottawa, Ottawa, Canada Some problems involving covering arrays and graphs

Covering arrays are combinatorial structures that connect problems in design theory, extremal set theory and graph theory, and that have applications in software and network testing. In this talk, we will discuss recent generalizations of covering arrays, namely error locating arrays and covering arrays avoiding forbidden edges. We will focus on a common graph theoretical framework and its relationship to the edge clique covering problem.