



# MILP for Maximization of Network quality

G.Chandrasekar<sup>1</sup>, M.Anushya<sup>2</sup>,

Assistant Professor, SRM University, Chennai<sup>1</sup>

Assistant Professor, Sri Venkateshwara College of Engineering, Sriperumbudur<sup>2</sup>

**Abstract:** The Mixed Integer Linear Programming (MILP) - based techniques and the approximation algorithms with computation time polynomial in the number of regular nodes and the number of mobile backbone nodes were described. Maximum number of regular nodes can be assigned to mobile backbone nodes at a given level throughput. The MILP based approach provides a considerable computational advantage over existing techniques for mobile backbone network optimization. This approach has been successfully applied to a problem in which a maximum number of regular nodes are to be assigned to mobile backbone nodes at a given level of throughput, and to a related problem in which all regular nodes are to be assigned to a mobile backbone node such that the minimum throughput achieved by any regular node is maximized.

**Keywords:** MILP, Wireless Sensor Networks, Utility-based Asynchronous Flow Control, Non Linear Programming

