

# **Abstract**

**Moustafa Hussein Aly**

## **Enhancing Optical Burst Switching Networks Throughput at Low and High Traffic Loads**

This paper presents a new burst-scheduling algorithm for variable size burst in optical burst switching (OBS) networks, which will improve the quality of service (QoS). This is done for burst control to avoid burst overlapping in the egress router of OBS network. The impact of the burst size, fiber delay lines (FDL), interarrival time, burst loss rate (BLR), and minimum time gap required between two successive bursts ( $d$ ) on throughput are studied.