11:00 - 11:50 AM, Wednesday, March 23, 2016

BOYD 306

Speaker: **Dr. Abdollah Khodkar** (UWG)

Title: **Super edge-graceful labelings for kites**

Abstract:

A graph G with vertex set V and edge set E is called super edge-graceful if there is a bijection f from E to $\{0, \pm 1, \pm 2, \ldots, \pm(|E|-1)/2\}$ when $|E|$ is odd and from E to $\{\pm 1, \pm 2, \ldots, \pm|E|/2\}$ when $|E|$ is even such that the induced vertex labeling f^* defined by $f^*(u) = \sum f(uv)$ over all edges uv is a bijection from V to $\{0, \pm 1, \pm 2, \ldots, \pm(|V| - 1)/2\}$ when $|V|$ is odd and from V to $\{\pm 1, \pm 2, \ldots, \pm|V|/2\}$ when $|V|$ is even. A kite is a graph formed by merging a cycle and a path at an endpoint of the path. In this talk, we show that all kites with $n \geq 7$ vertices are super edge-graceful.

This is joint work with Alexander Clifton (MIT).

All are welcome. The talk is suitable for undergraduate students.