

1129-46-13

**Monther Rashed Alfuraidan\*** (monther@kfupm.edu.sa), P O Box 1285, Dhahran, Eastern  
31261, Saudi Arabia. *Topological aspects of weighted graphs with application to fixed point theory.*

In this talk, we introduce new concepts of  $G$ -monotone sequences,  $G$ -bounded and  $G_\tau$ -compact nonempty subsets of the set of vertices of a weighted digraph  $G$ , where  $\tau$  is a sequential convergence. We also provide an application to metric fixed point theory.

(Received December 25, 2016)