



ΠΡΟΣΚΛΗΣΗ ΣΕ ΔΙΑΛΕΞΗ

Τη Δευτέρα 20/04/2015 στις 12:30 με θα πραγματοποιηθεί διάλεξη στην Αίθουσα 337, στον 3^ο όροφο του Κεντρικού Κτηρίου του Πανεπιστημίου Πειραιώς, με ομιλήτρια την Αναπληρώτρια Καθηγήτρια Giovanna Capizzi, University of Padua, Ιταλία, με θέμα:

“Statistical process monitoring and variable selection algorithms”

Abstract

In recent years, some control charts based on variable selection algorithms have been suggested for monitoring multivariate data. These charts share the common idea that process faults usually affect a small fraction of the monitored quality characteristics. Thus, it could be more efficient to monitor only the potential out-of-control variables, which, however, are not known in advance. However, a variable selection algorithm can identify the suspected variables and then only the selected characteristics are used to test whether the process is in control or not. The resulting control schemes offer a very satisfactory performance in detecting a fault condition, and, also, identify the variables that are responsible for the out-of-control situation. In the talk, I will illustrate the variable selection based control charts in a variety of out-of-control scenarios characterizing modern manufacturing environments like high-dimensional data, profile and multistage process monitoring.