



ΕΛΛΗΝΙΚΗ ΔΗΜΟΚΡΑΤΙΑ
ΤΕΧΝΟΛΟΓΙΚΟ ΕΚΠΑΙΔΕΥΤΙΚΟ ΙΔΡΥΜΑ ΣΤΕΡΕΑΣ ΕΛΛΑΔΑΣ
ΣΧΟΛΗ ΤΕΧΝΟΛΟΓΙΚΩΝ ΕΦΑΡΜΟΓΩΝ
ΤΜΗΜΑ ΗΛΕΚΤΡΟΛΟΓΩΝ ΜΗΧΑΝΙΚΩΝ Τ.Ε.



Το Πρόγραμμα Μεταπτυχιακών Σπουδών
«Ευφυής Διαχείριση Ανανεώσιμων Ενεργειακών Συστημάτων»
σας καλεί στη διάλεξη με θέμα

ΠΡΟΓΡΑΜΜΑ ΜΕΤΑΠΤΥΧΙΑΚΩΝ ΣΠΟΥΔΩΝ
Ευφυής Διαχείριση Ανανεώσιμων
Ενεργειακών Συστημάτων

Structural Health Monitoring and current issues

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GRADUATE PROGRAMME (MSc)
Intelligent Management of
Renewable Energy Sources

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Abstract: As each technical system deteriorate over time due to applied various loading profiles, it becomes of high importance to monitor current system state. In accordance, the estimation of mutual interaction/relation between applied loading profiles and current deterioration level have to be established. The knowledge about system's degradation in dependence of loading profiles provides the possibility to develop various models for prediction of consumed/remaining lifetime of particular system and consequent generation of control signals with respect to current health state. The main aim of this contribution is to define current issues and problems found in this area, as well as to discuss possible and already provided solutions in terms of their advantages and disadvantages. Accordingly, the selection of appropriate measurements of physical quantities from the system, real-time implementation of various algorithms/approaches for the detection and classification of anomalies, as well as various models for data-based lifetime prediction are intended to be discussed.

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