

Dr. George Fouskitakis, Associate Professor

Department of Electronic Engineering, Hellenic Mediterranean University

**Smart Insect e-Traps for Precision and
Intelligent Agriculture Applications**

Remote pest population monitoring is of major importance within the context of precision and intelligent agriculture. Information acquired from the field has been proved essential for proper decision making and pest management against various cultivation threats. The key factor for a successful pest management is the on-time, accurate, valid and unbiased pest population monitoring. In this presentation, a novel automated pest e-trap is presented. It is based on a custom electronic design providing real-time information from the field. The transferred information is easily accessible from a tailor-made web-based platform allowing the expert entomologists to remotely assess the potential threat at any time and rate, thus neglecting the need for visiting and collecting data on site. The web-based system also supports automatic insect counting characterized by an accuracy of almost 75%. Recent efforts on advanced automated insect counting will be also presented.