

NEW FRONTIERS IN ROBOT NAVIGATION

Tuesday, June 23, 9:30—13:45

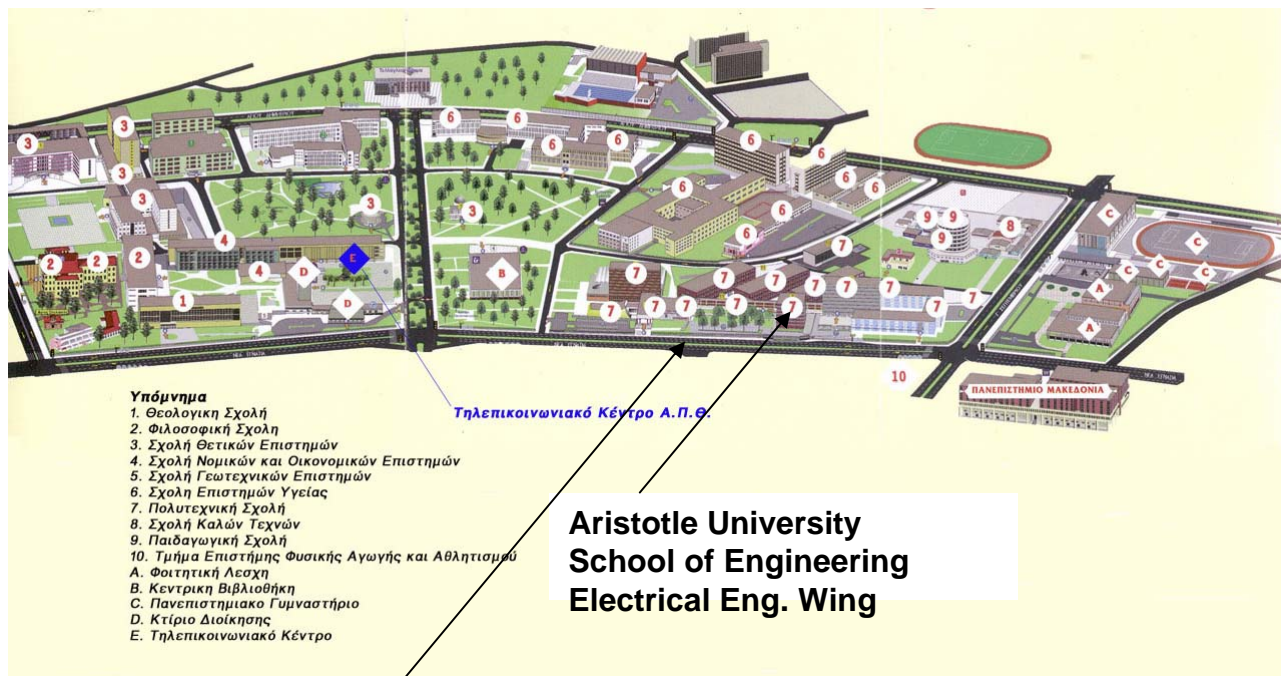
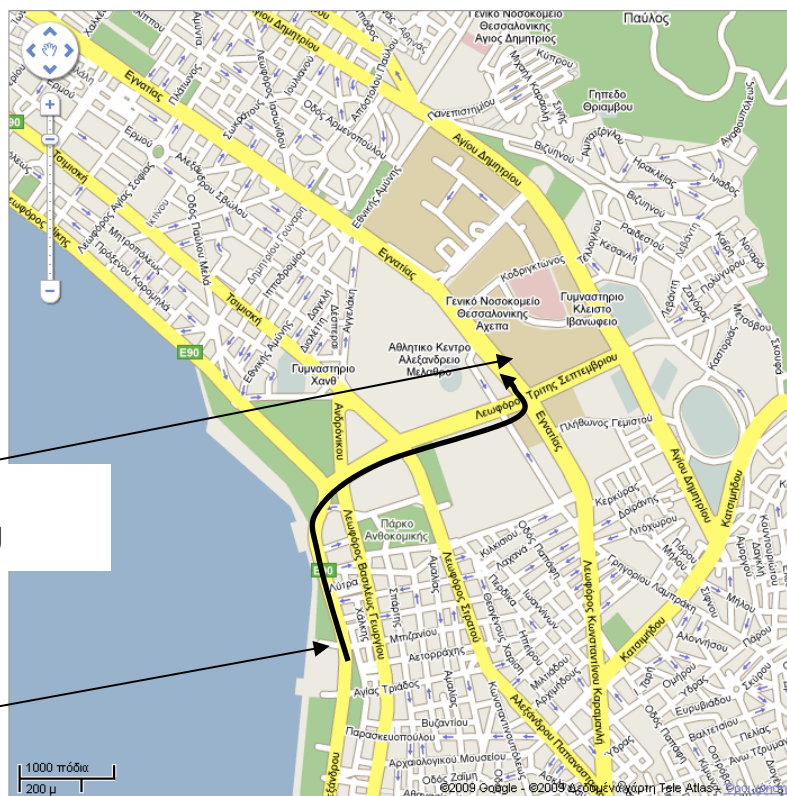
Aristotle University of Thessaloniki, School of Engineering,
Electrical Eng. Wing, 2nd Floor Room 8**PERCEPTION (9:30-11:30):****Anastassios Mourikis (U. of California, Riverside), Visual and inertial odometry****Stergios Roumeliotis (U. of Minnesota), Localization and Mapping****Yiannis Rekleitis (McGill University), Robot exploration****PLANNING AND CONTROL (11:45-13:45):****Kostas Kyriakopoulos (NTUA), Navigation Functions in Multi-Robot Navigatio****Dimitris Hristu-Varsakelis (U. of Macedonia), Higher-level languages****for navigation****UAS CIVILIAN APPLICATIONS: FIRE DETECTION,
FOREST PROTECTION, EMERGENCY RESPONSE**

Tuesday, June 23, 14:15—18:00

Aristotle University of Thessaloniki, School of Engineering,
Electrical Eng. Wing, 2nd Floor Room 8**J. Ratti, J. Kim, G. Vachtsevanos, A Biologically Inspired Micro Aerial Vehicle.****L. Merino, A. Ollero, J.R. Martinez de Dios, F. Caballero, Multi-UAV Cooperative Perception for Fire Detection, Monitoring and Measurement.****K. P. Valavanis et al, A Minimalistic Design of a Vision System for Small Unmanned Rotorcraft.****R. D. Garcia, Helicopter Tail Rotor Failure Control and Limitations.****F. Lebras, T. Hamel, C. Barat and R. Mahony, Image-Based Visual Servo controller for automatic landing guidance of a fixed-wing Aircraft.****N. C. Tsourveloudis, N. Vitzilaios, UAS for Fire Management: State-of-the-art, Early Warning and Trends.****A. Cesetti, E. Frontoni, A. Mancini, P. Zingaretti, S. Longhi, Detection of Landmines Using a UAV: Architecture and Control Issues.****A. Tzes, K. Alexis and G. Nikolakopoulos, Constrained Finite Time Optimal Controllers for Helicopters subject to Wind-Gust Disturbances.**

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