



סמינר - SEMINAR

הנך מוזמנת להרצאה סמינריונית של הפקולטה להנדסת מכונות, שתתקיים ביום ד' 6.04.2016 (כז' באדר ב', תשע"ו), בבניין דן-קאהן, קומה 0, אודיטוריום 1, 15:00.

ירצה:

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על הנושא:

An Automated Aerial Network for Wildlife Security in Namibia

להלן תקציר ההרצאה:

African wildlife species are becoming increasingly endangered and solutions are being sought to reverse this. This talk describes a wildlife security approach that utilizes aerial networks. The security with aerial networks promises to better deter criminal behavior, provide real-time monitoring and improve the speed of alert and response. The aerial network requires research and development of different methods and technologies: new designs for dual multi-rotor fixed-wing UAVs; new UAV designs that are customized to wildlife monitoring; the development of payload switching stations (batteries, cameras, and data); robust path-planning architectures for UAS systems that accommodate both human in and out of the loop operation; real-time methods of data reduction from large data sets; real-time, large-scale change detection methods; and new network protocols tuned for dynamic/static throughput-narrow/wide nodes. The talk describes a system called ADAM (aerial deterrence, alert, and monitoring) that is phased-in over a 50 km by 80 km area of a national park in Namibia. The training and deployment is to be performed by 10 to 15 upper-level undergraduate and graduate students as part of a student enrichment program called "Wildlife Security in Namibia" in which the students spend the fall 2017 semester in Namibia. Collaborations with students and faculty from the Technion are being encouraged.

מאת: פרופ"ח אילון רימון

בברכה,

פרופ' אילון רימון
מרכז הסמינרים