



סמינר - SEMINAR

הנדך מוזמנת להרצאה סמינריונית של הפקולטה להנדסת מכונות, שתתקיים ביום ד'  
28.12.16 (כח' בכסלו, תשע"ז), בבניין דן קאהן, אודיטוריום 1, 13:30.

ירצה:

**Prof. Leo Joskowicz\***

CASMIP -- Computer Aided Surgery and Medical Image Processing Laboratory  
School of Engineering and Computer Science  
The Hebrew University of Jerusalem

על הנושא:

## Making neurosurgery safer: a computer-based approach

להלן תקציר ההרצאה:

Precision and accuracy play a central role in neurosurgery. Common procedures include targeting of tumors, lesions, and anatomical structures with a probe, needle, catheter, or electrode inside the brain. Instrument misplacement may result in ineffective treatment and/or severe neurological complications.

We have developed a set of computer-based tools to optimize the planning, execution, and evaluation of keyhole neurosurgery. In this talk, we will describe algorithms and experimental results for optimal insertion trajectory planning, accurate registration, tracking, and image-guided navigation and robotic targeting during surgery, and post-operative evaluation.

\* Joint work with:

- Dr. Yigal Shoshan, Dept of Neurosurgery, Hadassah Ein Karem Hospital.

המארח: פרופ' משה שהם

בברכה,

פרופ' יגאל שושן  
מרכז הסמינרים