ELSC-ICNC Seminar: Leo Joskowicz

March 31, 2011

On the topic of: Computational decision support methods for reliable brain tumor characterization and disease follow-up

Speaker: Leo Joskowicz
Computer-Assisted Surgery and Medical Image Processing Laboratory School of Engineering and Computer Science, Hebrew University

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ICNC lecture hall (Silverman Bldg., Wing 3, 6th floor - Edmond J. Safra Campus)
March 31, 2011, at 17:00

Abstract:

Radiological follow-up of brain tumors from CT and MRI images is the cornerstone of modern neuro-oncology. Currently, radiologists perform the initial diagnosis and subsequent tumor follow-up manually based various evaluation standards. This evaluation is tedious, inaccurate, time-consuming, and error-prone. We have developed a framework and novel algorithms for robust, accurate, and automatic delineation and follow-up of brain tumors in longitudinal multi-spectral CT and MRI datasets. We will describe the framework and present experimental results for Optic Path Gliomas (OPG) and glioblastomas follow up.

Joint work with Lior Weizman (Hebrew Univ.) and S. Constantini, D. Ben-Bashat, and L. Ben-Sira, Tel-Aviv Sourasly Medical Center.

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