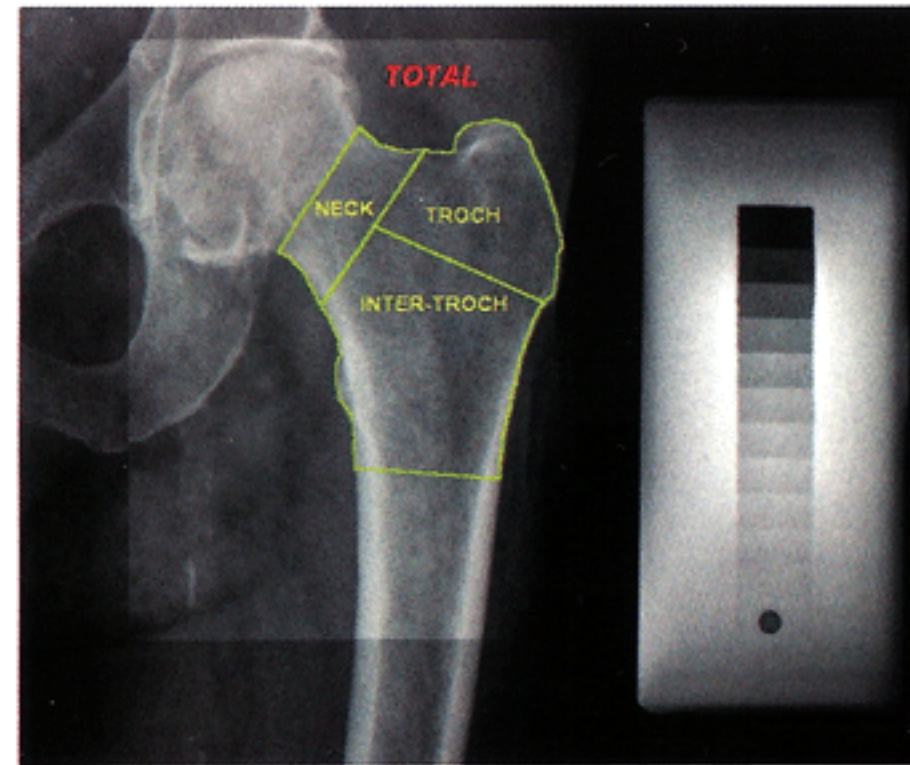


Academic News

Prize Winning Poster

Prof. Isaac Leichter, Head of Medical Engineering at JCT, was a member of the team that received an award for best clinical poster presentation at the meeting of the International Society for Computer Assisted Orthopaedic Surgery, held in Helsinki this past June. The poster presented results of a study on "Evaluation of Proximal Femur Bone Mineral Density Using Digital Plain Radiographs of the Hip". The poster presents a new method for evaluating the mineral density of the proximal femur, using plain digital radiographs. Further research will be aimed at exploring the potential value of this fast,



accessible and relatively inexpensive technique to diagnose osteoporosis and to predict fracture risk.

New Publications

A **Mathematical Introduction to Control Theory**, written by **Dr. Shlomo Engelberg**, incoming head of JCT's Electronic Engineering Department, was recently published by Imperial College Press.

Control theory describes how the interactions between subsystems affect the overall performance of a large system. The book introduces both the mathematics and the intuitions on which control theory rests.

ISF Research Grants

Three JCT researchers received research grants from the prestigious Israel Science Foundation (ISF) of the Israel Academy of Sciences and Humanities. **Dr. Thierry Dana-Picard**, senior lecturer, and **Dr. Ivy Kidron**, lecturer, in JCT's Mathematics Department, received a grant for their work on "The Influence of the Discreet-Continuous Interplay on Students' Conceptual Thinking Processes in Mathematics". **Dr. Shlomo Goldin**, lecturer in JCT's Electro-optics Engineering Department in collaboration with **Prof. Yishai Avishai** of the Ben-Gurion University of the Negev, received a grant for their work on "The Physics of Composite Quantum Dots or Complex Molecules Interacting with Metallic Electrons: Kondo effect, Dynamical Symmetries and non-Fermi Liquid Behavior".