



INSTITUTE OF INFORMATION AND
COMMUNICATION TECHNOLOGIES
BULGARIAN ACADEMY OF SCIENCE



На 7 август 2013 г. (сряда), от 11:00 часа в Заседателната зала на Института по биофизика и биомедицинско инженерство – „Акад. Г. Бончев“ бл. 105 (I етаж), ще се проведе съвместен семинар на тема:

Can Intelligent Pattern Recognition help in Cancer Diagnosis and Treatment Response Monitoring?

Лектор ще бъде Professor Lubomir Hadjiiski, Department of Radiology, University of Michigan, US

Cancer is the second leading cause of death in the US. Early detection and diagnosis of cancer is crucial for patient survival. The rapid development of imaging technologies such as fast and high resolution computed tomography (CT) and magnetic resonance imaging (MRI) scanners combined with advanced image processing and intelligent pattern recognition methods allow the development of powerful tools that can assist physicians in cancer detection, diagnosis and monitoring of treatment response. Computer-aided diagnosis systems (CAD) are such decision support tools that can provide objective and reproducible second opinion or information to the physicians. However, in order to evaluate the effect of CAD on physicians' performance in cancer detection, diagnosis and treatment response monitoring, it is critically important to study and understand the interaction between physicians and CAD, and determine whether CAD will improve patient care.

Professor Lubomir Hadjiiski has authored or coauthored 95 publications in peer-reviewed journals and more than 240 abstracts and presentations. He has been the principle investigator on National Institute of Health (NIH) and Department of Defense (DOD) grants. He has served as a grant reviewer for NIH, Food and Drug Administration, Dutch Cancer Society, and Dutch Technology Foundation.