



Laboratory of Medical Imaging

Introduction

6.10.2010



Medical Imaging

Lectures: prof. Michał Strzelecki

Contact: room 216, second floor
(building B9)

Phone number: 42 631 36 31



Laboratory:



Marcin Kociołek PhD & Marek Kociński PhD

www.eletel.p.lodz.pl/kociolek
marcin.kociolek@p.lodz.pl

www.eletel.p.lodz.pl/kocinski
kocinski@p.lodz.pl



Contact: room 205, second floor
(building B9)

Phone number: 42 631 36 38



Laboratory

- goals: **recognize, learn and teach colleagues how to use freely available software to processing and analysis of biomedical images (data)**
 - classes: **total 42 h** (originally: 14 weeks x 3h + 3h at Department of Microelectronics and Computer Science)
 - 13 weekly meetings (2h) + 5 x 3h meetings
 - regular classes: every Wednesday, lab. 215 (hours: 10¹⁵-12⁰⁰)
 - course classes 5 meetings in lasts two weeks (late hours e.g. 17¹⁵-20⁰⁰)
 - each group (2 students) is obligated to present progress every week during regular classes (presentation)
 - final mark will based on preparation of the **course explaining basics of operation for chosen software (3h)** (powerpoint presentation with notes!!!)
- course participants: colleagues and invited guests (e.g. prof. Strzelecki) **will be carrying out** exercises in front of computers



Proposed software

1. MRICro group (mricron, mricro, ezDicom, MRIConvert, MRICroGL, dicom2nii) <http://www.cabiatl.com/mricro/>
1. MIPAV
<http://mipav.cit.nih.gov/>
1. MedINRIA
<http://www-sop.inria.fr/asclepios/software/MedINRIA/>
1. FSL (possible 3 persons in group)
<http://www.fmrib.ox.ac.uk/fsl/>
1. itk-snap
<http://www.itksnap.org/pmwiki/pmwiki.php>
1. ParaView
<http://www.paraview.org/>
1. amide
<http://amide.sourceforge.net/>



Data for analysis

- there are some data bases of medical images on the Internet
- it is not allowed to work on data from software examples
- share information about found databases among colleagues
- if two or more software's have the same capabilities select **the same data set** and **compare results** of analysis by means of different software's
- **Let's start:**
 - a) Select piece of software to work with (each group different)
 - b) download it (put information about download process in your final presentation, if registration is needed or not,...)
 - c) read the license file (is it for commercial/academic/private purposes? Who, where and how can use the software?, place it in final presentation)
 - d) ...

