

*AComIn seminar on Technologies Transfer, theme #1:*  
**Computational Vision and its Application to Medical Diagnosis**

(a 14 hours course) by Prof. Petia Radeva from the University of Barcelona,  
a visiting researcher in the frames of AComIn project of IICT

- July 24<sup>th</sup>: 14.00 – 18.00 h: **Introduction:** Computer Vision in Barcelona University;  
**Segmentation techniques:** a) Snakes and level sets, b) Graph-cuts;
- July 25<sup>th</sup>: 10.00 – 13.00 h: **Image context analysis:** a) Shape context, b) Active shape models and Active appearance models, c) Bayesian context modeling;
- July 25<sup>th</sup>: 14.00 – 18.00 h: **Applications to medical diagnosis and treatment** – two real clinical projects: a) Introduction to Medical imaging, b) Arteriosclerotic plaque analysis in intravascular ultrasound images of coronary vessels, c) Stent detection;
- July 26<sup>th</sup>: 10.00 – 13.00 h: **Applications to medical diagnosis and treatment** (continuation): d) Neuroimaging, e) Intestinal motility analysis in wireless endoscopic images.

**Place of the course:** the big conference hall of Block 25-A (-1 floor)

**Admission free:** for all researchers interested in, in this number from BAS institutes, Universities, Governmental and/or Private companies, etc.