

5th International Advanced Research Workshop on *In Silico* Oncology and Cancer Investigation – The TUMOR Project Workshop

Athens, Greece, 22-23 October 2012

Call for Papers



Scope

Cancer is a *natural phenomenon* and as such it should be amenable to mathematical and computational description. Clinically driven complex multiscale cancer models can produce rather realistic spatio-temporal simulations of concrete clinical interventions such as radio-chemotherapy applied to individual patients. Clinical data processing procedures and computer technologies play an important role in this context. Following clinical adaptation and validation within the framework of clinico-genomic trials, models are expected to enhance individualized treatment optimization. The latter constitutes the long term goal of the emergent scientific, technological and medical discipline of *in silico* oncology. Treatment optimization is to be achieved through experimentation *in silico* i.e. on the computer. Moreover, provision of insight into tumour dynamics and optimization of clinical trial design and interpretation constitute short- and mid-term goals of this new domain. Researchers working either in the area of *in silico* oncology or in the broader cancer research domain yet with an interest in *computational* oncology are invited to submit short papers. The workshop is meant to be an excellent opportunity for both shaping and advancing the discipline.

Organizing Committee

G. Stamatakos, PhD, ICCS - National Technical University of Athens (GR), General Chair
N. Graf, MD, University Clinic of Saarland (DE)
K. Marias, PhD, Foundation for Research and Technology – Hellas (GR)
M. Akay, PhD, University of Houston (USA)
R. Radhakrishnan, PhD, University of Pennsylvania (USA)
D. Dionysiou, PhD, ICCS - National Technical University of Athens (GR)
V. Sakkalis, PhD, Foundation for Research and Technology – Hellas (GR)
N. Uzunoglu, PhD, ICCS - National Technical University of Athens (GR)

Venue

Royal Olympic Hotel <http://www.royalolympic.com/>

Important Dates

Paper submissions due - **EXTENDED DEADLINE**: September 1, 2012.

Notification of acceptance - **NEW DATE**: October 6, 2012.

Camera ready papers due - **NEW DATE**: October 15, 2012.

Instructions for Authors

Authors should submit a **four**-page manuscript in double-column format including authors' names, affiliations, and a short abstract. The IEEE-EMBS format should be followed (MS Word template `ieeconf_A4.dot` for A4 paper)

<http://embs.papercept.net/conferences/support/word.php#wordtemplates>

All correspondence including manuscript submission should be addressed to gestam@central.ntua.gr and cc to dimdio@esd.ece.ntua.gr. Further information is available at www.5th-iarwisoci.iccs.ntua.gr

Sponsors

The workshop is sponsored by the European Commission, Directorate-General for Information Society and Media, *Virtual Physiological Human* initiative through the TUMOR project <http://tumor-project.eu/> . It is technically co-sponsored by the Institute of Electrical and Electronics Engineers (IEEE), Engineering in Medicine and Biology Society (EMBS)

