



Διδρυματικό Πρόγραμμα Μεταπτυχιακών Σπουδών

ΤΕΧΝΟΛΟΓΙΕΣ ΠΛΗΡΟΦΟΡΙΚΗΣ
ΣΤΗΝ ΙΑΤΡΙΚΗ ΚΑΙ ΤΗ ΒΙΟΛΟΓΙΑ

COMPLEX NETWORKS THEORY:

MODELS AND APPLICATIONS IN
BRAIN CONNECTIVITY AND
INTRACELLULAR NETWORKS

Tassos Bezerianos

*Biosignal Lab, School of Medicine, University of Patras, GR
Cognitive Engineering Lab, SINAPSE, National University of Singapore, SG*

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ΔΙΕΠΙΣΤΗΜΟΝΙΚΟ ΣΕΜΙΝΑΡΙΟ

Δευτέρα 29/06/2015, 12:30 μ.μ.,

Αίθουσα Ε', Τμήμα Πληροφορικής και Τηλεπικοινωνιών, ΕΚΠΑ

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Connectivity in organisms comes in many forms - for example, molecular interactions, metabolic pathways, synaptic connections and from micro to meso and macroscopic level of cells, organs and systems.

In our talk we will present graph theory models we developed to study:

- a) the intracellular pathways based on intergromics data and
- b) time varying brain networks and dynamics from EEG and fMRI data.



Anastasios (Tassos) Bezerianos

BS, MS, Ph.D.

Anastasios Bezerianos is a Research Professor in the ECE, National University of Singapore, Senior Principal Research Fellow of Singapore Institute for Neurotechnology (SINAPSE) and Professor at the Medical School of Patras University, Greece. He studied Physics at Patras University and Telecommunications at Athens University, and he received his Ph.D. from the University of Patras. His research interests at large are in Neuroengineering and Systems Medicine and Bioinformatics, and his work is summarized in 110 journal and 175 conference proceedings publications. He has research collaborations with research institutes and universities in Japan, the USA, and Europe, and he is Associate Editor of IEEE TNSRE and the Annals of Biomedical Engineering journals and a reviewer for several international scientific journals. He is a registered expert of the Horizon 2020 program of the European Union and a reviewer of research grant proposals in Greece, Italy, Cyprus and Canada. He is a Senior Member of IEEE and the Founder and Chairman of the biannual [International Summer School on Emerging Technologies in Biomedicine](#).