Elias S. Manolakos, Assoc. Professor

Director, Graduate Program on Information Technology in Medicine and Biology

University of Athens

Dept. of Informatics and Telecommunications

eliasm@di.uoa.gr

Adjunct Professor Northeastern University, Boston Electrical and Computer Eng. Dept.

Academic Appointments:

University of Athens Dept. of Informatics and Telecommunications (2004-)

Northeastern University, Boston Electrical and Computer Engineering (1989-2004)

SUNY Stony Brook Electrical and Computer Engineering (1988-89)
Princeton University Electrical and Computer Engineering (1987-89)

Education:

U. of Southern California Computer Engineering PhD 1985-89
U. of Michigan Electrical Engineering MSEE 1981
NTU Athens Electrical Engineering Diploma 1980

Research Interests:

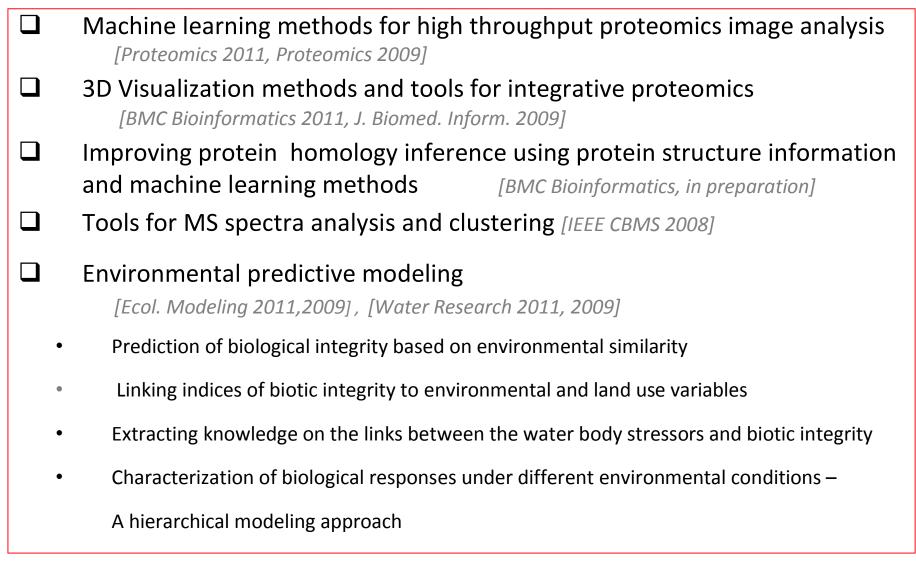
Statistical Signal/Image processing, Machine Learning, Predictive modeling

Applications in Computational & Systems Biology

High Performance and Embedded Computing

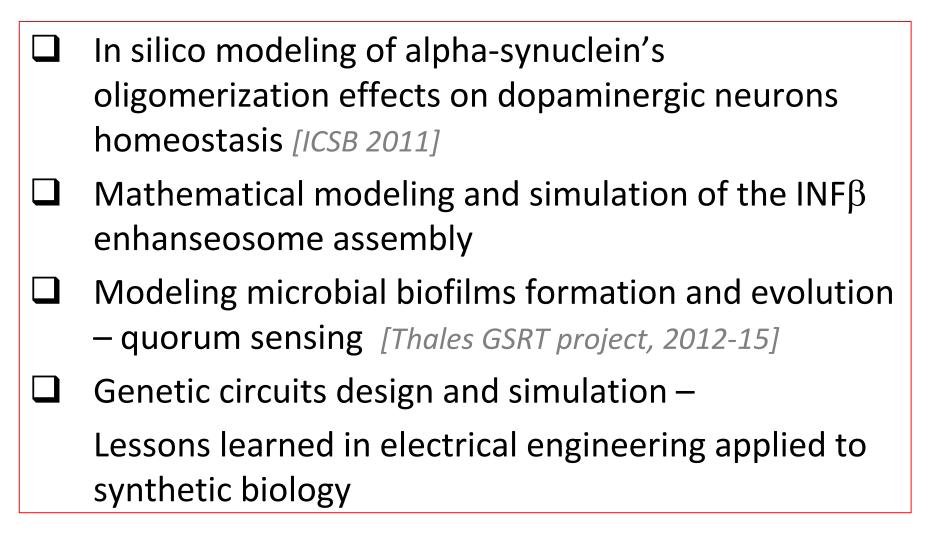
Sensor Networks and Mobile Computing

Statistical Signal/Image Processing, Machine Learning, Predictive modeling



Computational Systems Biology

[in collaboration with BFRAA]



High Performance and Embedded Computing

System on Chip design and FPGA implementation for real-time large biomolecular networks simulation [IEEE FPL 2011] Methods to accelerate protein structures comparison [Hrakleitos GSRT Grant, 2011-14] System on Chip Design and FPGA implementation for the kNN classifier [ACM Trans. Embedded Computing *Systems, 2012*] MPSoC Networks on Chip for implementing sequential Monte Carlo methods **SysPy -** Using Python for processor-centric SoC hardware/software co-design [IEEE ICECS 2010]

Sensor networks and mobile computing

(for e-health, AAL, environment al monitoring)

<i>PeerAssist:</i> A P2P platform supporting virtual communities to assist independent living of senior citizens [EU-AAL project, 2010-13]
p2pSOA-A middleware architecture to facilitate the development of mobile P2P collaborative service applications [IEEE ICPS 2008, patent pending]
Smart phone applications in Electrocardiography [in collaboration with BFRAA]
Predicting the spatiotemporal evolution of hazardous phenomena using sensor networks [IEEE ICCASP 2011, SMC2011], with application to wildfires front tracking
[EU FP6 SCIER project 2008-11, Thales GSRT project, 2012-15]

Ευχαριστώ πολύ!

THANK YOU for your attention!