Research group of Prof. Tryphon T. Georgiou

Research Group Members
(from left to right)

- Amir Karimi (PhD student)
- Olga Movilla (PhD student)
- Fariba Ariaei (Research Assoc.)
- Amir Taghvaei (Post-Doc Fellow)
- Rui Fu (PhD student)
- Zahra Askarzadeh (PhD student)
- Luigia Ripani (Post-Doc Fellow)
- Anqi Dong (PhD student)
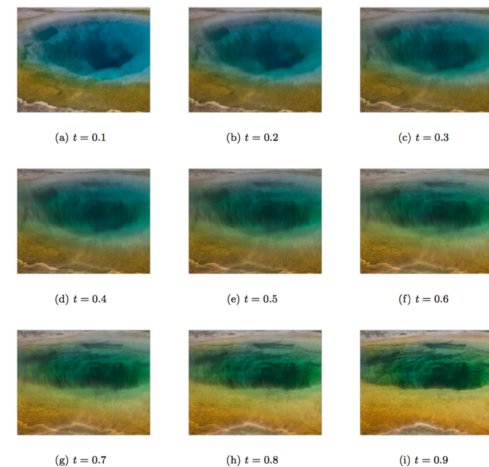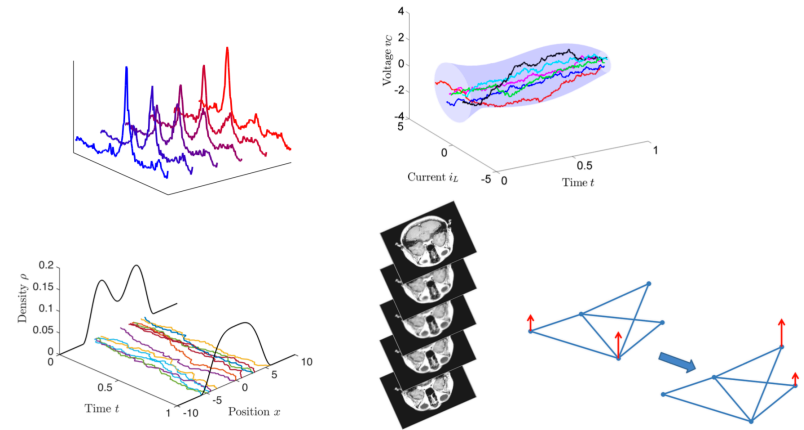- Tryphon Georgiou (Professor)

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Projects we are working on in the upcoming year

Project/research summary

- Statistical learning in the space of distributions

- Particle Systems and Collective Dynamics

- Dynamical dependencies and natural time-scales of physical processes

- Non-equilibrium Statistical Mechanics and efficiency of engines

- Functionality of networks

(a) $t = 0.1$ (b) $t = 0.2$ (c) $t = 0.3$

(d) $t = 0.4$ (e) $t = 0.5$ (f) $t = 0.6$

(g) $t = 0.7$ (h) $t = 0.8$ (i) $t = 0.9$

Possible areas of collaboration with other groups

- Natural time-scales of physical processes, collaborating with E. Foufoula-Georgiou's team @ UCI

- Functionality of Networks identifying critical nodes/structure, collaborating with C. Lenglet @ UofMinnesota

- Statistical learning in the space of distributions –data analysis applications