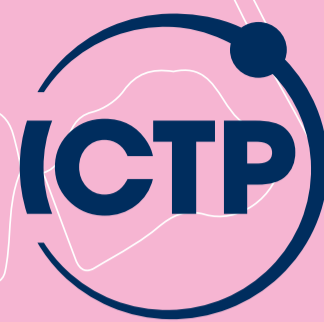


Workshop on Operations Research of Biological Systems

9 - 14 July 2018
Trieste, Italy



Further information:
<http://indico.ictp.it/event/8322/>
smr3223@ictp.it

This workshop explores the deep connections that exist between operations research and the process of self-reproduction, viewed as a self-reproducing factory. The workshop seeks to deepen our understanding of how cells dynamically allocate their resources, and what the inherent trade-offs that exist are. The workshop will further explore the connections between different advanced models from classical and modern queuing theory, to biology of enzymes, and the control of traffic and its connection to inter-cellular trafficking of goods on actin-networks.

The long-term goal of the workshop is to boost research and collaboration in this field, by strengthening the connection between current problems in system biology, molecular cell biology and bacterial physiology, and formal operations research approaches to issues of throughput, efficiency, resource allocation, reliability and redundancy.

Organizers:

Suckjoon Jun, UC San Diego, USA
Rami Pugatch, ICTP

Local Organizer:

Matteo Marsili, ICTP

List of Speakers:

Eitan Bachmat, BGU
John Bechhoefer, SFU (Canada)
Amarjit Budhiraja, NCU
Naama Brenner, Technion
Debashish Chowdhury, IIT Kanpur
Marco Cosentino Lagomarsino, UPMC Paris
Ken Dill, Stony Brook University
Erol Gelenbe, Imperial College, London
Nigel Goldenfeld, University of Illinois
Mor Harchol-Balter, CMU
Sanjay Jain, Delhi University
Tetsuya Kobayashi, University of Tokyo
Edo Kussell, NYU
Sergei Maslov, Brookhaven NL
Raj Rao Nadakuditi, University of Michigan
Luca Peliti, SMRI, Italy
Rami Pugatch, ICTP
Shlomi Reuveni, University of Tel Aviv
Hanna Salman, University of Pittsburgh
Kim Sneppen, University of Copenhagen
Mukund Thattai, NCBS, Bangalore
Li Zhiyuan, Princeton

How to apply:

Online application:
<http://indico.ictp.it/event/8322/>

Female scientists are encouraged to apply.

Grants:

A limited number of grants are available to support the attendance of selected participants, with priority given to participants from developing countries. There is no registration fee.

Deadline:

15 April 2018

