



The Fifteenth Israeli Applied and Computational Math Mini-Workshop

December 27, 2012



Local organizers: Mark Elin, Lavi Karp

Series founders: Raz Kupferman, Vered Rom-Kedar, Edriss S. Titi

We are pleased to invite the Israeli applied math community to participate in the Fifteenth Israeli bi-annual Mini-Workshop in Applied and Computational Mathematics, to be held at ORT Braude College, (**VIP room, EF building**). The idea of these workshops is to create a forum for workers in applied and computational mathematics, especially younger faculty members and students, to get to know other members of the community, and to promote discussions and collaborations.

Registration:

Participation in the workshop is free, but you are asked to register by sending an email to Anna Shmidov, math@braude.ac.il, so we can be adequately prepared for the day.

Please register by 12:00 on Tuesday December 25.

Lunch:

Participants of the workshop are invited for lunch at the College.

Confirmed Speakers:

- Mohammad Abu Hamed, ORT Braude College
- Adi Ditkowski, Tel Aviv university
- Yanqiu Guo, Weizmann Institute of Science
- Raz Kupferman, Hebrew University
- Dan Kushnir, Bell Laboratories, Alcatel-Lucent
- Yoram Louzoun, Bar-Ilan University
- Eitan Tadmor, University of Maryland
- Gershon Wolansky, Technion – Israel Institute of Technology

Speakers and Schedule:

Click on the titles to get abstracts.

9:45-10:10	Arrival and coffee	
10:10-10:15	Professor Arie Maharshak, President ORT Braude College	Opening
	Professor David Shoikhet, Vice President ORT Braude College	
10:15-10:45	Eitan Tadmor, University of Maryland	On the Shortcomings of the 2/3 de-aliasing Fourier Method
10:45-11:15	Dan Kushnir, Bell Laboratories, Alcatel-Lucent	Anisotropic Diffusion Kernels with Applications to Inverse Problems
11:15-11:30	Coffee and refreshments	
11:30-12:00	Yanqiu Guo, Weizmann Institute of Science	Nonlinear Wave Equations with Damping and Supercritical Sources
12:00-12:30	Adi Ditkowski, Tel Aviv University	On the Fine Prints of the Classical Theory of Finite Difference Schemes
12:30-14:00	Lunch	
14:00-14:30	Raz Kupferman, Hebrew University	A Riemannian Approach to Elasticity
14:30-15:00	Mohammad Abu Hamed, ORT Braude College and Technion - Israel Institute of Technology	Directional Solidification in Subdiffusion Media
15:00-15:15	Coffee and refreshments	
15:15-15:45	Yoram Louzoun, Bar-Ilan University	Complex Adaptive Behavior in Spatially Extended Stochastic Catalyst-Reactant Birth Death Processes
15:45-16:15	Gershon Wolansky, Technion - Israel Institute of Technology	On Generalized Partitions