

COMSOL Multi-physics General and Specialized Workshop

19 Mehr 1397 (11 October 2018)

IPM, Tehran, Iran

Program

8:00-8:30	8:30-10:15	10:15-10:30	10:30-12:30	12:30-14:00	14:00-15:30	15:30-15:45	15:45-18:00
Registration	A. Dabirian	Break	B. Eftekharnia	Lunch	A. Dabirian	Break	B. Eftekharnia

Title of Talks

General Part:

Ali Dabirian

- Introduction to numerical and computational methods in physics
- Simulation as a research tool in applied physics

Behrooz Eftekharnia

- Introducing the COMSOL software and various simulation capabilities
- COMSOL installation tutorials on windows and Linux
- Introducing COMSOL Software Modules
- The principles of simulating a piece in COMSOL software

Specialized Part:

Ali Dabirian

- Simulation of Light Management in Solar Cells
- Photoelectrochemical cell photoanode simulation for solar hydrogen generation

Behrooz Eftekharnia

- Simulation of metal nanoparticles and analysis of their absorption, dispersion and plasmonic properties
- Simulation of photonic-plasmonic waveguides and resonators