

ADVANCES IN COMPUTER-AIDED DESIGN FOR MANUFACTURING

	Monday <i>Modeling for additive manufacturing</i>	Tuesday <i>Simulation for additive manufacturing</i>	Wednesday <i>Design optimization for additive manufacturing</i>	Thursday <i>Hardware-software interface for additive manufacturing</i>	Friday <i>Interactive case studies</i>
8:00 am	Registration				
9:00 am	Introduction Matusik, Solomon	Basics of mechanics Matusik, Solomon	Introduction to optimization Matusik, Solomon	Hardware & materials Matusik, Solomon	Design, simulation, & verification Matusik, Solomon
10:00 am	Modeling surfaces Matusik, Solomon	Modeling materials Matusik, Solomon			
11:00 am			Optimizing parametric models Matusik, Solomon	Low-level software/algorithms Matusik, Solomon	
12:00 pm	Lunch	Lunch	Lunch	Lunch	Lunch
1:00 pm	Modeling volumes Matusik, Solomon	Finite element method, numerics Matusik, Solomon	Topology optimization Matusik, Solomon	Hardware/software demo Matusik, Solomon	Optimization & fabrication Matusik, Solomon
2:00 pm	Parametric modeling Matusik, Solomon	Multiphysics Matusik, Solomon			
3:00 pm	Lab: Boundary representations	Lab: Rigid body/fluid simulation	Lab: Topology optimization for min. compliance	MIT lab tours Student guides	Industry guest speakers
4:30pm	Adjourn	Adjourn	Adjourn	Adjourn	Adjourn
7:00 pm	Reception with faculty, students, and Boston CAD		Team engineering challenge		