



# 21

MAY 2009

## Workshop on Innovative Technologies for Computer Aided Design Systems

University of Bologna, CIRA M Aula Chiesetta, via Saragozza 8, Bologna

### SCOPE

This workshop aims to bring together mathematicians and engineers from University and Industry who share the common research objective of integrating innovative technologies in CAD systems. The workshop provides an opportunity to present research results obtained in "Progetto Strategico EF 2007-2009", to exchange ideas, and discuss new research directions.

### TOPICS

Topics of the workshop include:

- Subdivision surfaces for CAD systems
- Interactive technologies for shape acquisition and manipulation
- Surface reconstruction
- Fast reverse engineering

### INFO

The workshop is free. To contribute a talk please contact Prof. Serena Morigi. Please, contact Prof. Serena Morigi for registration.

Prof. Serena Morigi, Faculty of Engineering II - [morigi@dm.unibo.it](mailto:morigi@dm.unibo.it)

### PRELIMINARY PROGRAM

10:00-10:15 Serena Morigi

*Introduction*

10:15-10:45 Gudrun Albrecht

(University of Valenciennes, France)

*A subdivision method and a haptic application for CAD*

10:45-11:00 Coffe break

11:00-11:30 Carolina Beccari (Dept.Math,BO)

*Subdivision Surfaces for CAD*

11:30-12:00 Elena Franchini (CIRA M,BO)

*Implicit shape reconstruction using a variational approach*

12:00-12:30 Marco Rucci (Dept.Math,BO)

*Fast Interactive reverse engineering using low-cost hardware*

LUNCH at CIRA M

13:30-14:00 Alfredo Liverani, Luca Boschi  
(DIEM, Univ. Bologna)

*Towards interactive 3D shape acquisition and CAD integration*

14:00-14:30 Roberto Ciarloni (THINK3, BO)  
*Challenges of Subdivision Surfaces in a CAD system*

14:30-15:00 Elisabetta Farella (DEIS,BO)  
*Smart objects: enabling technologies for HCI*

15:00-15:30 Giovanna Migliorelli, Matteo Rubini (ENEA,BO)

*Applying easy and cheap peripherals to Rhinoceros 4.0 CAD: a few practical applications*

15:30-16:00 Gilioli Marco (DGTech, BO)  
*System Integration for HCI*

16:15-18:15 EU Project Meeting