



UNIVERSITÀ DELLA CALABRIA

DIPARTIMENTO DI
MATEMATICA
E INFORMATICA

Avviso di Seminario

Giovedì 5 giugno 2014 - ore 17:00

Aula MT11, Cubo 30B - primo piano

prof. JAROSLAW WAS

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terrà un seminario sul tema

CROWD DYNAMICS SIMULATIONS

ABSTRACT:

Public safety has become an extremely important subject of research in recent years. One of the most important issues is to ensure the safety of people at different sites, for instance: buildings, stadiums, shopping centers or open-air gatherings. Modern computer systems have the potential to build and test many scenarios in ensuring crowd safety in different facilities. We present current challenges in crowd modeling including data-driven modeling, predictions and issue of real time simulations. We illustrate pedestrian dynamics modeling with interesting case studies like Allianz Arena Munich football stadium, and we address the question: How to choose proper simulation method in practice (microscopic vs. macroscopic, force based vs Cellular Automata based etc)?. We also address issues of using parallel processing in discrete and continuous crowd simulations, as well as using GPGPU in practice.

Il Direttore del Dipartimento

prof. Nicola LEONE