



## PH.D. IN MATHEMATICS AND COMPUTER SCIENCE

# COURSE SCHEDULE

### ACADEMIC YEAR 2022/2023

06 - 09 MARCH

AN OVERVIEW OF GPGPU PROGRAMMING IN CUDA

LECTURER: DONATO D'AMBROSIO

20 - 23 MARCH

STOCHASTIC PROCESSES, FOKKER-PLANCK EQUATIONS, AND RELATED OPTIMAL CONTROL PROBLEMS

LECTURER: ALFIO BORZI

21 - 24 MARCH

THE VEHICLE ROUTING PROBLEM IN THE LAST MILE DELIVERY: CHALLENGING TRENDS AND OPPORTUNITIES

LECTURER: GIUSY MACRINA

03 APRIL - 04 MAY

INTRODUCTION TO THE THEORY OF DISTRIBUTIONS

LECTURER: FELICE IANDOLI

18 - 25 MAY

DECLARATIVE PROBLEM-SOLVING WITH ANSWER SET PROGRAMMING

LECTURERS: SIMONA PERRI, FRANCESCO RICCA

22 - 25 MAY

AN INTRODUCTION TO KUBERNETES

LECTURER: MARIO ALVIANO

26 MAY - 05 JUNE

METRIC FIXED POINT THEORY

LECTURER: VITTORIO COLAO

30 MAY - 08 JUNE

NONLOCAL ELLIPTIC PDES

LECTURER: LUIGI MONTORO

27 JUNE - 03 JULY

ARTIFICIAL INTELLIGENCE IN HIGHLY DYNAMIC ENVIRONMENTS

LECTURERS: GIOVAMBATTISTA IANNI, DENISE ANGILICA

03 - 06 JULY

INVERSE DISTANCE WEIGHTING PARTITION OF UNITY METHODS: THEORY, IMPLEMENTATION AND APPLICATIONS

LECTURERS: FRANCESCO DELL'ACCIO, FILOMENA DI TOMMASO

11 - 14 SEPTEMBER

INDUCTIVE AND DEDUCTIVE AI TECHNIQUES: OVERVIEW, LIMITATIONS, INNOVATIVE SOLUTIONS AND REAL-WORLD APPLICATIONS

LECTURERS: PIERANGELA BRUNO, FRANCESCO PACENZA, JESSICA ZANGARI

5 - 8 SEPTEMBER

MULTILEVEL ATTACKS TO COMMUNITY DETECTION

LECTURER: GIUSEPPE PIRRO

18 - 21 SEPTEMBER

OPTIMIZATION UNDER UNCERTAINTY AND RISK

LECTURER: PATRIZIA BERALDI

25 - 28 SEPTEMBER

PARALLEL COMPUTING OPTIMIZATION TECHNIQUES IN COMPUTATIONAL SCIENCE

LECTURER: WILLIAM SPATARO

02 - 06 OCTOBER

THE SCHEDULING PROBLEMS: MATHEMATICAL FORMULATIONS AND SOLUTION APPROACHES

LECTURER: ROSITA GUIDO

09 - 13 OCTOBER

AN INTRODUCTION TO DIFFERENTIAL TOPOLOGY

LECTURER: FRANCESCO POLIZZI