

DEPARTMENT OF INFORMATICS, SYSTEMS AND COMMUNICATION (DISCO); SCHOOL OF MEDICINE AND SURGERY

COMP-MED: Computational Methods in Translational Medicine

DATES

24-28 JUNE, 2019

CREDITS

2 ECTS

TUITION

€ 200

INCLUDES ALL COURSES ACTIVITIES, VISITS, LECTURES. TRAVEL AND OTHER LIVING EXPENSES ARE NOT INCLUDED IN THE TUITION FEE

APPLICATION DEADLINE

30 APRIL, 2019

LOCATION

MILAN, UNIVERSITY OF MILANO-BICOCCA (MONZA CAMPUS)

CONTACT

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PROGRAM DESCRIPTION

The COMP-MED is a joint program generated by the cooperation between the Department of Informatics and Bicocca's School of Medicine. **Translational medicine (TM)** is an interdisciplinary branch of the biomedical field supported by three main pillars: "benchside, bedside and community". The main objective of the school is to provide clinicians, and computer scientists with theory, laboratories and case studies to extend and deepen the knowledge of the learning and inferences tools aiming to cope the complexity of TM's current challenges. We are now generating and have access to vastly larger collections of data than have been available before.

Design data science oriented paradigms to support clinicians in their daily decisional processes is essential to providing the care most appropriate to each patient. In fact, while medicine defines itself as personalized, quantified (precision medicine) or in high definition, clinicians must be prepared to face a world in which data, processes and decisions are rapidly becoming more and more structured, and complex.

The goal is to **combine disciplines, resources, skills to promote improvements in prevention, diagnosis, and treatment.**

ORGANIZING COMMITTEE

Prof. Lorenzo Mantovani - School of Medicine

Prof. Giancarlo Mauri - Department of Informatics (DISCO)

Prof. Italo Zoppis - Department of Informatics (DISCO)

CONTENTS COVERED

- TRANSLATIONAL MEDICINE
- FUNDAMENTAL TOPICS FOR INFERENCE AND LEARNING
- CLUE, TOOL FOR CLINICAL LABORATORY DATA, UNDERSTANDING AND KNOWLEDGE EXTRACTION
- DEEP LEARNING FOR CLINICAL STUDIES
- PRECISION MEDICINE
- BIOMARKER DISCOVERY
- ADVANCED TOPICS FOR STRUCTURED LEARNING
- E-HEALTH SERVICE MANAGEMENT
- DATA SECURITY
- TELEMEDICINE
- WORKSHOP RAPID MINER

PREREQUISITES

The summer school is open to students Holding a Master degree or equivalent qualification. In case you are not in possess of the qualification but you want to apply please contact us at summerschool@unimib.it

ACCOMMODATION

In campus accommodation is not available for Monza Campus. You should arrange your accommodation independently. Program activities are mostly held in **Via Cadore,48 20900 – Monza (MB)**;

IN COOPERATION WITH

is a joint program generated by the cooperation between the Department of Informatics and the School of Medicine.

HOW TO ENROLL

YOU ARE REQUIRED TO ENROLL THROUGH THE ONLINE APPLICATION FORM. EVERY PROGRAM ON [HTTP://WWW.SUMMERSCHOOLBICOCCA.COM](http://WWW.SUMMERSCHOOLBICOCCA.COM) HAS AN **APPLY NOW** SECTION IN ORDER TO ACCESS TO THE APPLICATION. AFTER RECEIVING THE SELECTION NOTIFICATION, YOU WOULD BE REQUIRED TO PAY THE COURSE TUITION FEE WITHIN A SPECIFIED PERIOD. PLEASE FOLLOW THE SECTION **FEES & PAYMENT** ON OUR SUMMER SCHOOL WEBSITE FOR UNDERSTANDING THE PAYMENT OPTIONS.

SCHOLARSHIPS

The University of Milano-Bicocca offers partial/full scholarship please consult the web-site for update information and criteria of eligibility.

WWW WEB-SITE

<http://www.summerschoolbicocca.com/19-computational-methods.php>

