SSM PhD Courses – Block 4

Starting 24th April 2023

MERC area

- **Introduction to Reinforcement Learning and Data-Driven Control for Complex Systems**
  Lecturer: Prof. Mirco Musolesi (with seminars from Prof. Giovanni Russo)
  Email: m.musolesi@ucl.ac.uk
  Teaching mode: in-person | Hours: 24
  Timetable: [here](#)
  Team code: zhht0af
  Broadcast online on Zoom:
  https://us02web.zoom.us/j/81523131568?pwd=K0VqcFAXZEFUN3czVkV0ckZ1MDJoQT09
  Meeting ID: 815 2313 1568
  Passcode: merc_zoom

- **Stochastic differential equations and singular stochastic control**
  Lecturer: Prof. Tiziano De Angelis
  Email: tiziano.deangelis@unito.it
  Teaching mode: in-person | Hours: 24
  Timetable: [here](#)
  Team code: or3i2xa

- **Networks beyond pairwise interactions** (seminar course)
  Lecturer: Prof. Stefano Boccaletti, Prof. Regino Criado
  Email: stefano.boccaletti@isc.cnr.it, regino.criado@urjc.es
  Teaching mode: in-person | Hours: 10
  Timetable: [here](#) (starts 12th April 2023)
  Team code: a9itdkv

MPHS area

- **Theory and applications of delay differential equations**
  Lecturer: Prof. John Hogan
  Email: s.j.hogan@bristol.ac.uk
  Teaching mode: in-person | Hours: 12
  Timetable: Check the Timetable
  Team code: qipiscs
• **Fundamentals of Computational Fluid Dynamics**
  Lecturer: Prof. Alessandro Veneziani  
  Email: avenez2@emory.edu  
  Teaching mode: online & in-person | Hours: 24  
  Timetable: Check the Timetable  
  Team code: sv67imn

**SPACE area**

• **Introduction to Deep Learning**
  Lecturer: Prof. Poggi and Dr. Gragnaniello  
  Email: poggi@unina.it, diego.gragnaniello@unina.it  
  Teaching mode: Online | Hours: 24  
  Timetable: wed at 10h; tue at 9h (except for 9-16 May, when it is scheduled to be at 15h-17h, starts: May 3)  
  Team code: l8tg6jt

• **Quantum Information, Complexity and Black Holes**
  Lecturer: Prof. Alioscia Hamma  
  Email: alioscia.hamma@unina.it  
  Teaching mode: In-person | Hours: 12  
  Timetable: tue- thu at 10h in Aula4. Starts: May 2; end: May 18.  
  Team code: ok1fkxd

• **Standard Model of Fundamental Interactions**
  Lecturer: Prof. Sannino  
  Email: sannino@cp3.sdu.dk  
  Teaching mode: Online | Hours: 12  
  Timetable: 22-24-29-30 May at 15h, May 25 at 16h and May 29 at 10h  
  Team code: m1e56nm
• **Inflation in the Early Universe: theoretical developments and observational predictions**
  Lecturer: Prof. Matarrese
  Email: sabino.matarrese@pd.infn.it
  Teaching mode: Online | Hours: 12
  Timetable: June 7 at 15h, 8-9-14-15-16 June at 10h
  Zoom link: https://unipd.zoom.us/j/83734700868?pwd=bTRMWmplbis2VldNMiB1Z0R1RtQT09
  Meeting ID: 837 3470 0868 | Passcode: 525381

• **Cosmic Distances**
  Lecturer: Prof. Massimo della Valle
  Email: massimo.dellavalle@inaf.it
  Teaching mode: Mixed | Hours: 12
  Timetable: June 21-22 at 10h-12h in presence in Aula4;
            June 28-29 at 10h-13h online
  Zoom link: https://us02web.zoom.us/j/84424579572?pwd=Lzh2OS9HT0FyUHpxbzFlSGJiblpRUT09
  Meeting ID: 844 2457 9572 | Passcode: IntrAstro