



CCS/ITALY  
ITALIAN REGIONAL  
CONFERENCE ON  
COMPLEX SYSTEMS



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# Italian Regional Conference on Complex Systems



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Naples, Italy

October 9 - 11, 2023



# WELCOME TO CCS/ITALY 2023

MAIN THEMES OF CCS/ITALY 2023 CONFERENCE:  
**Complexity and Risk**

**Fulvio Parisi (University of Naples Federico II)**

**Antonio Scala (CNR)**

Conference Chairs



**Sponsored by**

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## **C O N F E R E N C E   F O R M A T**

The conference will consist of keynote lectures delivered by experts in several scientific areas, contributed talks and public lectures on the main conference themes. Conference participants who will give talks on their study will not be asked to send any paper.

## **S U B M I S S I O N   O F   A B S T R A C T S**

Conference participants who would like to give a talk are kindly asked to send an abstract to [ccsitaly.2023@gmail.com](mailto:ccsitaly.2023@gmail.com), using the subject [Abstract submission] and attaching a MS Word file.

Abstracts can be prepared without any specific template, but they should not exceed a single MS Word page including the title, authors with their affiliation and email, and 3 to 5 keywords.

## **I M P O R T A N T   D A T E S**

Abstract submission deadline:	June 30, 2023 (Postponed to July 20, 2023)
Notification to authors:	July 15, 2023
Registration deadline:	August 31, 2023
Conference:	October 9–11, 2023

## REGISTRATION FEES AND PROCEDURE

Undergraduate students:	€ 50 + VAT
PhD students and junior postdocs (up to 2nd year):	€ 100 + VAT
Senior postdocs, lecturers and professors	€ 150 + VAT
Non-academic attendees:	€ 200 + VAT

The registration fee covers coffee breaks and lunches at San Marcellino venue. VAT is set to 22% as per current Italian law.

Each conference participant should make his/her registration by paying the corresponding fee through bank transfer as follows:

Beneficiary Name: Dipartimento di Strutture per l'Ingegneria e l'Architettura (VAT No. IT00876220633)

IBAN: IT77C0306903497100000046044

BIC/SWIFT code: BCITITMM

Beneficiary Account Name: Dipartimento di Strutture per l'Ingegneria e l'Architettura, Università degli Studi di Napoli Federico II

Beneficiary Address: Via Claudio 21, 80125 Napoli

Bank Name: INTESA SAN PAOLO SPA

Reference: LAST\_NAME\_NAME Registration to CCS/Italy 2023 Conference – DIST UniNA

Currency: Euro

After payment, each participant should send an email to Dr. Immacolata Diez ([immacolata.diez@unina.it](mailto:immacolata.diez@unina.it)) and Valeria Peluso ([valeria.peluso@unina.it](mailto:valeria.peluso@unina.it)), cc'ing Prof. Fulvio Parisi ([fulvio.palisi@unina.it](mailto:fulvio.palisi@unina.it)) as conference chair, informing them about the payment with attached notification of the bank transfer.

# ORGANIZATION

## **Conference Chairs**

Fulvio Parisi (University of Naples Federico II)  
Antonio Scala (CNR)

## **Program Chairs**

Mario di Bernardo, Mario Nicodemi (University of Naples Federico II)

## **Local Organizing Committee**

Simona Bianco, Valentina Buonocunto, Andrea Maria Chiariello,  
Ludovico Alberico Grieco, Daniele Losanno, Vincenzo Manfredi,  
Gianmarco Pondrano Altavilla, Martina Scalvenzi, Stefania Zimbalatti

## **Scientific Committee**

Fulvio Parisi (University of Naples Federico II)  
Antonio Scala (CNR)  
Domenico Asprone (University of Naples Federico II)  
Raffaella Burioni (University of Parma)  
Gian Michele Calvi (IUSS Pavia)  
Paolo Castaldo (Politecnico di Torino)  
Ciro Cattuto (ISI Foundation Turin)  
Bernardino Chiaia (Politecnico di Torino)  
Edoardo Cosenza (University of Naples Federico II)  
Gregorio D'Agostino (ENEA)  
Manlio De Domenico (University of Padova)  
Mario di Bernardo (University of Naples Federico II)  
Armando Di Nardo (University of Campania Luigi Vanvitelli)  
Marco di Prisco (Politecnico di Milano)  
Mauro Dolce (University of Naples Federico II)  
Angelo Facchini (IMT Lucca)  
Paolo Franchin (Sapienza University of Rome)  
Andrea Gabrielli (Roma Tre University)  
Massimiliano Giorgio (University of Naples Federico II)  
Caterina La Porta (University of Milan)  
Vito Latora (University of Catania)  
Eugenio Lippiello (University of Campania Luigi Vanvitelli)

Angelo Masi (University of Basilicata)  
Ricardo Monteiro (IUSS Pavia)  
Mario Mureddu (University of Cagliari)  
Mario Nicodemi (University of Naples Federico II)  
Gabriele Oliva (Campus Bio-Medico University Hospital Foundation)  
Rui Pinho (University of Pavia)  
Daniel Remondini (University of Bologna)  
Sebastiano Stramaglia (University of Bari)  
Samir Suweis (University of Padova)  
Giulio Zuccaro (University of Naples Federico II)

### **Administrative Secretariat**

Immacolata Diez (University of Naples Federico II)  
Valeria Peluso (University of Naples Federico II)

# TOPICS

## **1. Foundations of Complex Systems**

Complex networks, self-organization, nonlinear dynamics, statistical physics, mathematical modeling and simulation

## **2. Infrastructure, Planning and Environment**

Critical infrastructures, urban planning, mobility, transport and energy, smart cities

## **3. Disaster Risk**

Single-hazard and multi-hazard risk assessment, disaster risk mitigation, risk perception

## **4. Data-Driven Complexity Science**

Data science, artificial intelligence, statistical methods for complex systems

## **5. Information and Communication Technologies**

Internet, WWW, search, semantic web, blockchain

## **6. Economics and Finance**

Social networks, game theory, stock market and crises

## **7. Biological and (Bio)Medical Complexity**

Biological networks, systems biology, evolution, natural science, medicine and physiology

## **8. Socio-Ecological Systems**

Global environmental change, green growth, sustainability and resilience

## **9. Language, Linguistics, Cognition and Social Systems**

Evolution of language, social consensus, artificial intelligence, cognitive processes



# PROGRAMME AT A GLANCE

**October 9, 2023**

**8.30 – 9.30** Registration

**9.30 – 10.00** Opening Ceremony

Fulvio Parisi and Antonio Scala

*Conference Chairs*

Mario di Bernardo and Mario Nicodemi

*Program Chairs*

Matteo Lorito, *Rector of University of Naples*

*Federico II*

Arturo De Vivo, *Institutional Committee*

*Member of Scuola Superiore Meridionale*

Andrea Prota, *Head of Department of Structures*

*for Engineering and Architecture*

Gennaro Miele, *Head of Department of Physics*

Fabio Villone, *Head of Department of Electrical*

*Engineering and Information Technologies*

**Morning Session** (Chair: Fulvio Parisi)

**10.00 – 10.30** Keynote lecture

**10.30 – 11.00** Keynote lecture

**11.00 – 11.30** Coffee break

**11.30 – 13.00** Contributed talks

**13.00 – 13.30** Keynote lecture

**13.30 – 15.00** Lunch break

**Afternoon Session** (Chair: Mario Nicodemi)

**15.00 – 15.30** Keynote lecture

**15.30 – 17.00** Contributed talks

**17.00 – 17.30** Coffee break

**17.30 – 18.00** Keynote lecture

**18.00 – 19.00** Contributed talks

**October 10, 2023**

**Morning Session** (Chair: Mario di Bernardo)

9.00 – 9.30 Keynote lecture  
9.30 – 10.00 Keynote lecture  
10.00 – 10.30 Coffee break  
10.30 – 11.00 Keynote lecture  
11.00 – 13.00 Contributed talks  
13.00 – 14.30 Lunch break

**Afternoon Session** (Chair: Antonio Scala)

14.30 – 15.00 Keynote lecture  
15.00 – 15.30 Keynote lecture  
15.30 – 17.00 Contributed talks  
17.00 – 17.30 Coffee break  
17.30 – 18.00 Keynote lecture  
18.00 – 18.30 Keynote lecture  
18.00 – 19.00 Closing Ceremony

Fulvio Parisi and Antonio Scala

*Conference Chairs*

Mario di Bernardo and Mario Nicodemi

*Program Chairs*

Manlio De Domenico

*Coordinator of CSS/Italy Chapter*

## **October 11, 2023 – Public dissemination event**

- 10.00 – 10.45** Public lecture: Guido Caldarelli (Ca' Foscari University of Venice)  
**10.45 – 11.30** Public lecture: Andrea Prota (University of Naples Federico II)  
**11.30 – 12.30** Round Table  
**12.30 – 13.00** Closing Remarks

### **Keynote speakers**

Ginestra Bianconi (Queen Mary University of London)  
Almerinda Di Benedetto (University of Naples Federico II)  
Tiziana Di Matteo (King's College London)  
Duccio Fanelli (University of Florence)  
Mattia Frasca (University of Catania)  
Juergen Kurths (Humboldt Universitaet)  
Junio Iervolino (University of Naples Federico II)  
Andrea Pagnani (Politecnico di Torino)  
Alessandro Rizzo (Politecnico di Torino)  
Constantinos Siettos (University of Naples Federico II)  
Stefano Zapperi (University of Milan)  
Enrico Zio (Politecnico di Milano)

### **Programme timing**

Keynote lectures: 25+5 min  
Contributed talks: 12+3 min  
Public lectures: 45 min

# 9 – 10 OCTOBER



[click on](#)

## HOW TO REACH

University of Naples Federico II, Complesso dei SS. Marcellino e Festo  
Largo S. Marcellino 10

### **From the train station of Naples - Garibaldi**

- Underground L1 stops at Duomo
- Bus n. R2 stops at Umberto I – Duomo

### **From the airport of Naples – Capodichino**

- Bus Alibus stops at Garibaldi – Rosa Parks & Bus n. R2 stops at Umberto I – Duomo
- Bus Alibus stops at Garibaldi – Rosa Parks & Underground L1 stops at Duomo



# 11 OCTOBER



click on

## HOW TO REACH

Istituto Italiano per gli Studi Filosofici, Palazzo Serra di Cassano  
Via Monte di Dio 14

### **From the train station of Naples – Garibaldi**

- Bus n. 151 stops at Acton
- Bus n. R2 stops at San Carlo – Trieste e Trento
- Underground L1 stops at Municipio

### **From the airport of Naples – Capodichino**

- Bus Alibus stops at Beverello – Angioino
- Bus Alibus stops at Garibaldi – Rosa Parks & Bus n. 151 stops at Acton

