

Università degli Studi di Cagliari
Associazione Italiana per la Ricerca sui Sistemi (AIRS)

4-5 Maggio 2023
4-5 May 2023

Ottavo Congresso Nazionale di Sistemica
Eighth National Conference on Systems Science

Sistemi multipli
Multiple Systems

Lezione introduttiva di /Opening Lecture by
***Prof. Giovanni Biggio* University of Cagliari**

**Epigenetics and brain development: how the environment
changes the brain over the course of life**

Sede del convegno Università degli Studi di Cagliari
Via Is Mirrionis, 1 - Cagliari, Italy

In memoria del / In memory of Professor Eliano Pessa
September 19, 1946 – March 22, 2020
emeritus academician of the AIRS

PROGRAMMA DEI LAVORI / CONFERENCE PROGRAM
4 Maggio / May 4th Aula 4B

8.30-9.00	Registrazione/Enrolement	
09.00-09.15	Discorso di benvenuto del Presidente della Facoltà di Studi Umanistici/ Welcome address by the President of the Faculty of Humanities - University of Cagliari	<i>Prof. Antonello Mura</i>
9.15-9.30	Discorso di benvenuto del Direttore di Dipartimento di Pedagogia, Psicologia, Filosofia / Welcome address by the director of the Department of Pedagogy, Psychology, Philosophy - University of Cagliari	<i>Prof.ssa Loredana Lucarelli</i>
9.30-9.45	Apertura e benvenuto all'Ottavo Congresso dell'AIRS-Università di Cagliari / Opening and welcome to the Eighth Conference of the Italian Systems Society - University of Cagliari	<i>Prof.ssa Maria Pietronilla Penna</i>
9.45-10.00	Apertura e benvenuto all'Ottavo Congresso dell'AIRS-Università di Cagliari / Opening and welcome to the Eighth Conference of the Italian Systems Society - University of Cagliari	<i>Presidente dell'AIRS/ AIRS President Prof. Gianfranco Minati</i>
10.00-11.00	Lezione Magistrale/Opening Lecture Epigenetics and brain development: how the environment changes the brain over the course of life	<i>Prof. Giovanni Biggio</i>
11.00-11.30	Coffee Break	
11.30-12:15	Commemorazione del Prof. Pessa	
12.15-13.15	Lezione Magistrale/Opening Lecture Neural networks and many-body systems	<i>Prof. Giuseppe Vitiello</i>
13.15-15.00	Pranzo/Lunch	
	Section 1 Chair: Maria Pietronilla Penna	
15.00-15.25	Multiple Systems	<i>Prof. Gianfranco Minati</i>
15.25-15.50	Multiple systems in probability theory applications	<i>Prof. Marco Giunti, Simone Pinna, Fabrizia Garavaglia</i>
15.50-16.15	Emergence of cooperation in dynamical system games for coupled players	<i>Prof. Ignazio Licata</i>
16:15-16:40	Incompleteness and emergence in multiple systems: a logical glimpse	<i>Prof. Roberto Arpaia</i>
16.40-17:05	A theoretical model for EEG interpretation	<i>Prof. Pier Luigi Marconi, Rosamaria Scognamiglio, Maria Lidia Mascia, Rachele Conti, Caterina Marconi, Maria Pietronilla Penna</i>
17.05-17.30	Coffee Break	
	Section 2 Chair: Marco Giunti	
17.30-17.55	Affective matter: the unconscious between brain and mind	<i>Prof. Vinicio Busacchi</i>
17:55-18:20	Intelligent systems. many manners of adapting to environment	<i>Prof.ssa Lucia Ulivi</i>
18.20-18.45	The complexity of gaze	<i>Prof. Pierluca Bandinelli</i>
18.45-19.10	Multiple systems for urban reality	<i>Prof. Mario Fois</i>
19:10-19:35	Systemic cognition: sketching a functional nexus of intersecting ontologies	<i>Prof. Rasmus Gahrn-Andersen, Davide Secchi, Maria S. Festilia</i>
20:30	Cena sociale/Social dinner	

PROGRAMMA DEI LAVORI / CONFERENCE PROGRAM
5 Maggio / May 5th Aula Specchi

	Section 3 Chair: Simone Pinna, Fabrizia Garavaglia	
9.00-09.25	Mechanisms underlines brain processes in addiction: a Spiking Neural Network analysis from the EEG	<i>Prof. Natale Salvatore Bonfiglio, Roberta Renati, Maria Pietronilla Penna</i>
9.25-9.50	The role of fear of missing out and addictive smartphone behaviors in understanding phubbing among university students	<i>Prof.sse Cristina Cabras, Francesca Muggianu Caglia Girgin Buyukbayraktar, Cristina Sechi</i>
9.50-10.15	Symbolic processing as the result of social interactions	<i>Prof. Simone Pinna, Fabrizia Garavaglia, Marco Giunti</i>
10.15-10.40	Coevolution dynamics and the biosemiotics of human change	<i>Prof. Franco Orsucci</i>
10.40-11.05	The multisystemic structure of science education. The role of mathematical modelling in the representation of ecosystems	<i>Prof.sse Caterina Lorenzi, Maria Polo</i>
11.05-11:30	Coffee Break	
	Section 4 Chair: Gianfranco Minati	
11.30-11.55	Quantum coding of the self	<i>Prof.ssa Paola Zizzi</i>
11.55-12.20	Complex systems and energy	<i>Prof. Umberto Di Caprio, Mario Abram</i>
12.20-12.45	A cybernetic perspective of agent–environment relations: from interactions to meanings	<i>Prof. Andrea Roli, Michele Braccini</i>
12.45-13.05	da confermare/to be confirmed	<i>Prof. Giordano Bruno</i>
13.05-15.00	Pranzo/Lunch	
	Section 5 Chair: Natale Salvatore Bonfiglio	
15.00-15.25	The association between stress and well-being with Resilience and coping in university students during Covid-19 pandemic: a longitudinal network analysis	<i>Prof. Roberta Renati, Natale Salvatore Bonfiglio, Dolores Rollo</i>
15.25-15.50	Multiple systems in the meso domain. A study in organizational cognition	<i>Prof. Davide Secchi, Rasmus Gahrn-Andersen, Maria S. Festilia</i>
15.50-16.15	Multiple clocks in mental time processing	<i>Prof. Fabrizia Garavaglia, Marco Giunti, Simone Pinna</i>
16.15-16.40	Basso Continuo, Improvisation and Recording: Stories of Impossible Relationships and Systemic Coherences in Music (to be confirmed)	<i>Prof.ssa Emanuela Pietrocini</i>
16.40-17.05	The interpsychic: a leading actor in interpersonal relationships and in the psychoanalytic scene (to be confirmed)	<i>Prof.ssa Elisabetta Marchiori</i>
17.05-17.30	Complexity of the academic system: retention and drop-out	<i>Prof.sse Maria Lidia Mascia, Federica Siddu, Maria Pietronilla Penna</i>
17.30.-18.00	Interventi / Discussion Chiusura del Congresso End of the Conference	