UNIVERSIDAD DE LA REPÚBLICA URUGUAY

CURE Centro Universitario Regional del Este

LA NET

PROGRAM

Monday, 28th of July

09:30 – 15:30 **LANET SCHOOL** – Room 14

15:30 – 16:00 REGISTRATION/WELCOME **LANET CONFERENCE** – Foyer

16:00 – 16:30 JOSÉ FERNANDO MENDES – Aula Magna
Evolution of triangulations: Hausdorff and spectral dimensions

16:30 – 17:00 GUADALUPE PERALTA – Aula Magna
Network theory to understand ecological changes

17:00 – 17:30 ANDREA BARONCHELLI – Aula Magna
Emergent social coordination and collective bias in human and LLM populations

17:30 – 16:00 **WELCOME COCKTAIL** – Foyer

Tuesday, 29th of July

09:30 – 10:00 JAVIER BULDÚ– Aula Magna
TBD

10:00 – 10:30 JESÚS GÓMEZ GARDEÑEZ– Aula Magna
Recent advances on epidemic spread across metapopulations: From theory to control policies

10:30 – 11:00 **COFFEE BREAK** – Foyer

11:00 – 11:30 MARIO CHAVEZ – Aula Magna
TBD

11:30 – 12:00 PABLO BALENZUELA – Aula Magna
News Sharing and Ideological Bias in Social Media

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12:00 – 13:00	**PARALELL SESSIONS**
	PA01 – Room 7
12:00 – 12:20	MOJICA-NAVA Distributed Saddle Point Dynamics for Constrained Resource Allocation Problems in Multiplex Networks
12:20 – 12:40	ALMENDRAL Anticipating Explosive Synchronization via Local Ordinal Entropy Measures
12:20 – 12:40	MESA PINEDA Una Nueva Medida para Caracterizar las Estructuras de Ciclos en Redes Complejas
	PA02 – Room 8
12:00 – 12:20	LOPEZ Network metrics reveal ecosystem age as a key driver of food web assembly in Greenland ponds
12:20 – 12:40	BORTHAGARAY Hotspot areas of mass effect and regional connectivity throughout the freshwater landscapes of South America
12:40 – 13:00	SEAMAN Animal Social Networks and the Dynamics of Information Transmission
13:00 – 14:30	**LUNCH BREAK** – Canteen
14:30 – 16:00	**PARALELL SESSIONS**
	PA03 – Room 7
14:30 – 14:50	GANCIO Anticipating explosive synchronization in networks of Kuramoto oscillators
14:50 – 15:10	MARENCO Online Change Point Detection for Weighted and Directed Random Dot Product Graphs
15:10 – 15:30	CICCHINI Robustness analysis of public transportation networks and the relationship between topology and mobility in latin american cities

PA04 – Room 8

14:30 – 14:50 BERNAL
Similarity, Complex Networks, and Machine Learning in Pharmacologically Relevant Molecule Discovery

14:50 – 15:10 PICASSO
Does the service sector stimulate economic growth? A novel approach with machine learning using US Input-Output data

15:10 – 15:30 GARCÍA-USUGA
Redes complejas aplicadas al análisis del transporte público intermunicipal, Caso de estudio: el deparatamento del Quindío en Colombia

15:30 – 15:50 MESA MAZO
Modelamiento de parámetros físico químicos de aguas superficiales con Redes Complejas: de estudio Departamento del Quindío-Colombia

16:00 – 17:15 **POSTER SESSION** – Foyer

Wednesday, 30th of July

09:30 – 10:00 ERNESTO ESTRADA– Aula Magna
Towards Network Geometrodynamics. Directed Networks

10:00 – 10:30 PAOLA BERMOLEN– Aula Magna
Can we reproduce real networks? A generative latent position model for weighted random graphs

10:30 – 11:00 **COFFEE BREAK** – Foyer

11:00 – 11:30 JOSE JAVIER RAMASCO – Aula Magna
Capturing the linguistic diversity of societies

11:30 – 12:00 SILVIO FERREIRA – Aula Magna
Role of waning immunity for epidemic spreading on networks

12:00 – 13:00 **PARALELL SESSIONS**

PA05 – Room 7

12:00 – 12:20 DE LEON
Connectivity can increase biodiversity resistance to pollution or magnify its impact if equalizing mechanisms are eroded

12:20 – 12:40	CABANA Semantic Networks from Word Free Association: Structure and Psycholinguistic Applications
	PA06 – Room 8
12:00 – 12:20	ALVAREZ Diffusion analysis of inflationary shocks in the Mexican economy. A study using dynamic network analysis
12:20 – 12:40	PICHARDO Measuring the structural evolution of street networks
13:00 – 14:30	**LUNCH BREAK** – Canteen

Thursday, 31st of July

09:30 – 10:00	MARTA GONZALEZ – Aula Magna TBD
10:00 – 10:30	PABLO MONZON– Aula Magna Smart Grids: (complex) power system networks he role of timing on waning immunity
10:30 – 11:00	**COFFEE BREAK** – Foyer
11:00 – 11:30	JORDI SORIANO – Aula Magna Exploring concepts of complex networks with living neurons grown in the laboratory
11:30 – 12:00	FLORENCIA LEONARDI – Aula Magna Consistent community detection and model selection in the Stochastic Block Model

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12:00 – 13:00	**PARALELL SESSIONS**
	PA07 – Room 7
12:00 – 12:20	BETANCOURT Modelo matemático para la propagación del VIH en una poblaciíon con estructura de edad y condiciones de riesgo asociadas
12:20 – 12:40	ANZO Impact of risk perception and mobility preferences on epidemic spread in spatially embedded agent populations
12:40 – 13:00	SALIMI Theory and Applications of Pursuit-Evasion Games
	PA08 – Room 8
12:00 – 12:20	VERA-ÁVILA Electronic implementation of simplicial complexes
12:20 – 12:40	GUTIÉRREZ Generación y transmisión no trivial de información en redes de mapas logísticos diseñados electrónicamente
12:40 – 13:00	USUGA Educational Inequities and Social Mobility in Colombia: Insights from Network-Based Analysis
13:00 – 14:30	**LUNCH BREAK** – Canteen
14:30 – 16:00	**PARALELL SESSIONS**
	PA09 – Room 7
14:30 – 14:50	COTA Bridging nodes and their impact on epidemic activation mechanisms
14:50 – 15:10	MARESCA Threshold-Based Behavior and Epidemic Dynamics on Interacting Networks

15:10 – 15:30 MORAES
Visibility graph signatures for criticality in spreading phenomena on networks

15:30 – 15:50 ESTRADA
Complex Networks for the Dynamic Study of Classical and Quantum Oscillators

PA10 – Room 8

14:30 – 14:50 CHERNOMORETZ
Leveraging Protein Embeddings and Network Theory for Drug Repurposing

14:50 – 15:10 CASTAÑO
Examining the Influence of ENSO on the Hydroclimatology of Colombia's Inter-Andean Region through Complex Network Analysis

15:10 – 15:30 AGUIRRE
A distributed reconnection model for complex networks

15:30 – 15:70 CAYSSIALS
Multiple regime switching models: theory and applications

16:00 – 17:15 **POSTER SESSION** – Foyer

Friday, 1st of August

09:30 – 10:00 RONALDO MENEZES– Aula Magna
Violence, City Size and Geographical Isolation in African Cities

10:00 – 10:30 INMACULADA LEYVA– Aula Magna
Lost in averaging: local and global intermittencies in complex networks

10:30 – 11:00 **COFFEE BREAK** – Foyer

11:00 – 11:30 DAVID SORIANO-PAÑOS– Aula Magna
Eco-evolutionary constraints shape the endemicity and epidemic trajectories of rapidly evolving viruses

11:30 – 12:00 SEBASTIÁN GONÇALVES– Aula Magna
Structure, Dynamics, and Prediction in Political Corruption Networks

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12:00 – 13:30	**PARALELL SESSIONS**
	PA11 – Room 7
12:00 – 12:20	ESPINOSA Exploration mechanisms intrinsic to semantic networks and the nuanced appraisal of lexical repetition occurrences
12:20 – 12:40	BRUM Ultrafast Doppler and functional ultrasound of the brain: a novel research platform in Uruguay for studying functional networks and brain connectivity
12:40 – 13:00	SCHMIDT Graph Contrastive Learning for Connectome Classification
	PA12 – Room 8
12:00 – 12:20	PERUSQUÍA Dinámica Poblacional del Gato Doméstico en Entornos Urbanos desde el enfoque de Sistemas Complejos
12:20 – 12:40	COMBARIZA Decreasing the spectral radius by removal of a node
12:40 – 13:00	BELLO Graph based models for anomaly detection in multivariate time series
13:00 – 14:30	**CLOSING COCKTAIL**