



11.30-12.00 – Take a Break among the Posters

12.00-13.15 – Session 6. Territory and Population Challenges: Tourism, Housing, and Social Development

- R Di Stefano, V Celli** *The Role of Early Childhood Education in Revitalizing Inner Areas*
- B Brollo, F Celata, D Festa, A Esposito** *Economic Geography Approach to the Redesign of Tourist Flows for Sustainability*
- M Nardozi** *Prospettive di Ricerca per la Valorizzazione del Patrimonio Culturale: Emigrazione, Turismo e Fiere*
- D Festa, I Rossi, G Alleva** *Tackling Housing Crisis in Rome: An Collaborative and Interdisciplinary Research*
(intervento a più voci)

13.15-14.30 Take a Snack

14.30-15.30 – Session 7. Innovation, Productivity, and Risk Modeling in Economics and Finance

- M Buttarazzi, C Ceci** *Filtering in a Hazard Rate Change-point Model with Financial and Life-insurance Applications*
- F Castellano** *Shaping the Geographies of Innovation: A Mobility Network Analysis on mRNA COVID-19 Vaccines' Inventors*
- C Salvo, J Weisdorf, L Ridolfi** *The Effect of Mechanisation on Labour: Evidence from the Diffusion of Steam Power*
- TN Marturet** *Three Essays on Transportation*

15.30-16.00 – Irrational Tutorial: A Proof of the Irrationality of the Number π by Stefano Patri

16.00 – Closing of the XV Giornate della Ricerca MEMOTEF

- D Strangio** *Closing Speech by the Head of the MEMOTEF Department*



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DIPARTIMENTO DI METODI E MODELLI
PER L'ECONOMIA IL TERRITORIO E LA FINANZA
MEMOTEF



SAPIENZA
UNIVERSITÀ DI ROMA



XV GIORNATE DELLA RICERCA MEMOTEF 29-30 May 2025

Istituto Nazionale di Studi Romani – Piazza dei Cavalieri di Malta 2, 00153 Roma
Aula Amintore Fanfani, Facoltà di Economia – Via del Castro Laurenziano 9, 00161 Roma

Interventi di:

G Alleva, R Appolloni, D Angelini, A Arcagni, S Battaglia, B Brollo, M Buttarazzi, F Castellano, C Certomà, A De Rose, N Deliu, R Di Stefano, S Eyssette, A Feraldi, D Festa, D Foresta, B Foroni, A Frascatani, A Leoncini Bartoli, S Marconi, TN Marturet, E Masillo, M Nardozi, M Nicolosi, E Pandolfo, F Panero, S Patri, G Pescosolido, G Platania, G Polo, S Polsinelli, F Prete, F Ricca, I Rossi, D Russo, A Tancredi, C Salvo, AM Scognamiglio, D Strangio, B Vantaggi, D Vitale, G Zarfati

Comitato scientifico e organizzatore:

A Arcagni, N Deliu, R Di Stefano, C Fortunato, A Leoncini Bartoli, AL Martire, F Panero, I Rossi, C Salvo, E Trappolini, D Vitale

con la collaborazione di tutto il personale del Dipartimento MEMOTEF

immagine di copertina realizzata da Nina Deliu e Augusto Frascatani in A.I. con Deep Dream Generator

Day 1 – 29 May 2025

Istituto Nazionale di Studi Romani – Piazza dei Cavalieri di Malta 2, 00153 Roma

09.30-09.50 – Workshop Opening and Welcome

G Platania	President of <i>The Istituto Nazionale di Studi Romani</i>
D Strangio	Head of <i>The MEMOTEF Department</i>
G Alleva	<i>Decano of The MEMOTEF Department and Founder of The MEMOTEF Research Days</i>
A De Rose	Director of <i>The Annals of the MEMOTEF Department</i>
09.50-10.50 – Session 1. Paths and Bridges in Governance, Diplomacy, and Migrations	
D Strangio, G Salvucci	<i>La Migrazione Italiana dall’Unità al 1925: Applicazione del Modello Gravitazionale ai Flussi Migratori</i>
S Battaglia	<i>Costruire Ponti sul Mediterraneo: l’Italia tra il Vertice di Copenaghen e il Dialogo Euro-Arabo</i>
F Ricca, L Lampariello, A Scozzari	<i>Biproportional Allocation of Parliamentary Seats via Vector Apportionment and Minimum Paths</i>
S Eyssette	<i>The New Silk Roads – the Italian Discursive Representation of China</i>



10.50-11.20 – Take a Break

11.20-12.30 – Session 2. MEMOTEF for Higher Education: AI, Data, and Digital Transformation

S Polsinelli	<i>Didactic Research. Leveraging AI to Enhance the Effectiveness of English Teaching in Universities</i>
R Appolloni	<i>Mapping Business English from Classroom to Data: A Data-informed Perspective with Preliminary Insights on Teaching B2 Modules</i>
N Deliu	<i>Enhancing Digital Education with Reinforcement Learning</i>
D Russo, G Alleva, G Manzi, PD Falorsi	<i>Assessing GenAI Readiness in Higher Education</i>
B Vantaggi	<i>Empowering Digital Education at Sapienza: Tools and Opportunities for Innovation</i>

Open Discussion and Guided Reflections (by A Leoncini Bartoli and A Tancredi)

12.30-14.00 – Take a Snack, Take a Snap



13.40 – Group Picture in the Garden

14.00-15.00 – Session 3. Predictive Models and Risk Dynamics in Economics and Finance

D Angelini, M Garcin	<i>Market Information of the Fractional Stochastic Regularity Model</i>
E Pandolfo, B Liseo, A Tancredi	<i>Forecasting the Automotive Sector in Italy: An ARIMA-X approach</i>
G Pescosolido, C Ceci	<i>Optimal Self-protection in a Self-exciting Risk Model</i>
M Nicolosi, R Ciciretti, F Morelli	<i>From Reputational Risk to Contagion Risk in ESG-ranked Equity Mutual Funds</i>



15.00-15.30 – Take a Break

15.30-16.30 – Session 4. Tales of Disparities: Exploring Inequalities in Health, Well-being, and Social Conditions

F Panero	<i>Can Bayes Help Food Security Estimation?</i>
A Feraldi, M Pappagallo, C Giudici, and L Frova	<i>Investigating Disparities in Cause-Specific Mortality based on Education in Italy</i>
D Foresta, E Ambrosetti, A Paparusso	<i>The Subjective Well-being of Immigrant and Native Adolescents</i>
F Prete	<i>Growing Older in Smaller Families</i>

16.30-17.00 – Rational Tutorial: A rational use of AI in academia by Alberto Arcagni

17.30-20.00 – Take a Drink

[Aventina](#)

Viale della Piramide Cestia 9, 00153 Roma – 10 min walking

Day 2 – 30 May 2025

Aula Amintore Fanfani, Facoltà di Economia – Via del Castro Laurenziano 9, 00161 Roma

10.00-11.00 – Session 5. An Evergreen: Environment and Weather-related Events

D Vitale	<i>Multiple Imputation of Environmental Time Series through Machine Learning Algorithms: An Application to Eddy-Covariance Data</i>
B Foroni, L Merlo, L Petrella, N Salvati	<i>Quantile-Based Hidden Markov Graphical Models for PM10 Pollution Analysis: A Perspective on Air Quality in Northern Italy</i>
G Zarfati, I Oliva	<i>Optimal Allocation With Weather Risk</i>
C Certomà	<i>CoSea_Lab. Col-Laboratorio per l’Analisi Socio-Ambientale dell’Oceano</i>

11.00-11.30 – Across Disciplines: Poster Snapshots

AM Scognamiglio	<i>Trade, Infrastructure and Know-how: Italy’s Transition to Gas and its Economic Relations with the Eastern Bloc</i>
E Masillo, N Deliu	<i>Using Vine Copulas for Estimating Highest-Density Regions in Multivariate Data</i>
G Polo, C Giudici	<i>Cattedra UNESCO in Popolazione, Migrazioni e Sviluppo – Progetto MAPS</i>
S Marconi, V Bruni, B Vantaggi, D Vitulano	<i>Turning Time Series into Images: A Deep Learning Approach to Market Direction Prediction</i>
A Frascatani	<i>Riconoscimento Facciale: Casi in cui l’Analisi Metrica non Fornisce un Risultato Validò</i>