



CLADAG - VOC 2025

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1st International Scientific Joint Meeting of the Italian and
Dutch/Flemish Classification Societies

BOOK OF ABSTRACTS

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Preface

This book collects the abstracts presented at CLADAG - VOC 2025, the 15th Scientific Meeting of the Classification and Data Analysis Group (CLADAG) of the Italian Statistical Society (SIS) joint with the Vereniging voor Ordinatie en Classificatie (VOC), the Dutch-Flemish classification society.

The conference held in Naples, Italy, from 8 to 10 September 2025, has been organized by a group of statisticians from the University of Naples Federico II under the auspices of the SIS.

The scientific program of CLADAG – VOC 2025 is noteworthy for the considerable richness of its content. It comprises 5 Keynote Lectures, 41 Invited Sessions promoted by the members of the Scientific Program Committee and 27 Solicited Sessions for a total of 250 talks. We would like to express our sincere gratitude to all the session organizers for inviting speakers of such distinguished repute, who have travelled from many different countries to attend. We are greatly indebted to the referees, for the time spent in a careful review of the abstracts in this book. We would like to express our sincere gratitude all those who collaborated for CLADAG - VOC 2025. Finally, we express our deepest gratitude to all the authors and participants, whose invaluable contributions made this conference a reality.

A selection of the presented papers has already been regularly published in the conference proceedings entitled *Supervised and Unsupervised Statistical Data Analysis* published by Springer Cham (ISBN: 978-3-032-03042-9).

Naples, September 8, 2025

Antonio D'Ambrosio

on behalf of the CLADAG 2025 Local Organizing Committee

Session - Advanced clustering methods for complex data I

Organizer: Marta Nai Ruscone

Community Detection In Financial Networks And The Importance Of Being Robust**Authors:**

Pietro Coretto^{1*}, Alfonso Peluso², Luca Coraggio³

¹ Università di Salerno

² Univeristy of Salerno

³ Univeristy of Naples "Federico II

* Corresponding author † Presenter

Contact: pcoretto@unisa.it

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Abstract:

Stock market networks represent the interconnected relationships between stocks or financial instruments. By studying these networks, researchers can gain insights into complex market dynamics and assess the impact of specific stocks on overall market behavior. The identification of stock networks has evolved significantly over the past few decades, primarily driven by physicists who have applied complex systems analysis to financial markets. This study advances the methodology for analyzing stock networks in two key directions. First, we introduce robust methods at each step of the analysis. Traditional approaches to constructing these networks rely on empirical correlation matrices and OLS-based methods to filter out variations driven by market trends. We replace these classical methods with robust alternatives capable of mitigating the well-documented influence of exceptional variations in stock returns that frequently occur during market shocks and sharp transitions between dynamic regimes. Second, we exploit the information gain provided by high-frequency data and demonstrate that high-frequency networks can reveal previously hidden market structures. We provide empirical evidence that networks reconstructed using robust methodologies and high-frequency data lead to the discovery of more compact clusters that exhibit greater stability and show improved alignment with economic sectors compared to traditional approaches. This enhanced methodology offers significant potential for advancing financial network analysis and improving our understanding of market structure dynamics.

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