

CAC 10th Anniversary
5th International Conference on Cliometrics and Complexity

**"The Place of Cliometrics & Complexity
in the Analysis of History"**

10-11 July 2025,
Salle Condorcet, ENSL, Lyon, France



Keynote speakers:

Steven Durlauf

(University of Chicago, USA)

Michael Benzaquem

(CNRS, Ecole Polytechnique, France)

Andrea Roventini

(Scuola Superiore Sant'Anna, Pisa, Italy)



ÉCOLE NORMALE SUPÉRIEURE DE LYON

INSTITUT RHÔNALPIN DES SYSTÈMES COMPLEXES

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The Cliometrics & Complexity team (CAC-IXXI) is celebrating its 10th anniversary. 8 seminars and 4 international conferences have previously been organised under its auspices since its creation.

The theme of the CAC 10th Anniversary International Conference is: "The Place of Cliometrics and Complexity in the Analysis of History". The 2025 Program Committee gathers papers on all aspects of cliometrics and complexity. It is especially focused on papers that apply concepts and tools of cliometrics, complex systems, data analysis, for the study of historical processes. Topics and methods cover: long term dynamics of growth; financial systems and institutions; crises; revolutions; wars; economic and institutional impact of pandemics; nonlinear econometrics; econophysics; statistical physics; complex systems; network methods; signal processing; high dimensionality; machine learning and artificial intelligence. The scope of the conference intends to foster multidisciplinary exchanges.

The conference is organized over two days in Lyon, Rhône, France, on July 10-11, 2025. It is hosted at the Ecole normale supérieure de Lyon, and co-organised by the IXXI (Complex Systems Institute Rhône-Alpes), with a unique track.

Co-chairs: Cécile Bastidon (LEAD, Univ. Toulon), Pierre Borgnat (CNRS, ENS de Lyon, LPENSL), Pablo Jensen (CNRS, ENS de Lyon, LPENSL), Antoine Parent (LED, Univ. Paris 8).
Organisation: Diane Barthélémy (ENS de Lyon).

Website : <https://cac2025.sciencesconf.org/>



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Thursday 10 July. Salle Condorcet, ENSL

8.00 – 8.45 Registration

8.45 – 9.00 Welcome address

Cécile Bastidon, Pierre Borgnat, Pablo Jensen, Antoine Parent.
Patrice Abry (Chair, Complex Systems Institute).

Session 1: Structural Breaks in History and the CAC Method

9.00 – 10.00 Keynote Speaker: Steven Durlauf

(Univ. Chicago, Stone Center)

“Ideas Versus Emotions and End of the Ancien Régime: What Can Textual Analysis Reveal?”

10.00 – 12.30 Plenary session

Masahiro Kubo (Université Clermont Auvergne, CNRS, IRD, CERDI), *Jihad over Centuries*, with Tsuda Shunsuke (Univ. of Essex).

Julia Schlosser (Univ. of Bern), *The Economic and Migratory Effects of Bushfires in 20th-Century South-Eastern Australia*, with Costanza Fileccia (Univ. of Bern).

Sergi Lozano (Institute of Complex System, Department of Economic History, Univ. of Barcelona), *Beyond the ‘Cobden-Chevalier network’: A multiplex approach to the co-evolution of preferential agreements and trade flows during the First Globalisation*, with Emanuelle Cozzo (Univ. of Barcelona), Luce Prignano (Univ. of Barcelona) and Marc Badia-Miró (Univ. of Barcelona).

Kristina Butaeva (Univ. Chicago), *Intergenerational Mobility in Late Qing Dynasty China: Evidence from the Liaoning Province*, with Steven Durlauf (Univ. Chicago) and Alexander Shapoval (Univ. Lodz).

Session 2 : The CAC Method and the Analysis of Institutions and Regimes in History

14.00 – 15.00 Keynote Speaker: Andrea Roventini

(Univ. Santa Anna Pisa)

“The only long-run growth trajectory is a green trajectory: results from the Dystopian Schumpeter meeting Keynes model”.

15.00 – 17.30 Plenary session

Gilles Le Garrec (OFCE, Sciences Po Paris, France), *On the Long-Term Persistence of Welfare-State Regimes*.

Matias Cabello (Martin Luther University Halle-Wittenberg, Germany), *The rise of science, cognitive limitations, and the origins steady growth: A new Kaldor fact, a new growth paradigm?*

Etienne Farvaque (Univ. Lille, LEM), *Discipline me if you can! Monetary Regimes and Monetary Political Cycles in the United Kingdom (1870- 2020)*, with Antoine Parent (Univ. Paris 8, OFCE & CAC-IXXI) and Elie Israël (Univ. Lille, LEM).

Eric Roca Fernandez (UCA), *Geographic Mortality Differentials and the Quality-Quantity Trade-Off: Evidence from 19th-century Armenia*, with Sinara Gharibyan (aCERGE-EI, Prague and BIOS, Regensburg) and David Gomtsyan (Univ. Pompeu Fabra).

Friday 11 July. Salle Condorcet, ENSL

Session 3: Econophysics and Complex Systems

9.00 – 10.00 Keynote Speaker: Michael Benzaquem
(CNRS, Ecole Polytechnique)

“Farm Size, Pesticides & Biodiversity: Bio-Economic Models for Sustainable Agri-Policy”.

10.00 – 12.30 Plenary session

Alexander Shapoval (University of Lodz), *Forecasting the Termination of Quasi-Cycles in the Manna Model of Self-Organized Criticality: Efficient Prediction and Poisson Event Rates.*

Stéphane Loisel (CNAM, Paris), *On the mortality of regiments during WW1*, with Antoine Parent (LED, Univ. Paris 8) and Gilles Gaba (Actuariatech).

Cécile Bastidon (Univ. Toulon, OFCE, CAC-IXXI), « *Clio Crises Toolbox* » & Team Cliometrics & Complexity – IXXI.

Pierre Borgnat (ENS Lyon, Department of Physics), *Learning smooth graphs with sparse temporal variations to explore long-term financial trends* & Team Cliometrics & Complexity – IXXI.

12.30 – 13.00 Concluding remarks: Antoine Parent.