

STRUCTURAL VAR MODELS

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Course Description

This reading group aims at presenting and discussing the main econometric techniques used to identify structural shocks in VAR models, from the origins to state of the art. The most important papers in this literature will be analysed both from an economic and an econometric point of view.

The softwares used are Matlab (together with some useful toolboxes) and Eviews. Codes and data will be provided and commented on during the class.

Prerequisites for this course are a good knowledge of time-series econometrics and a basic knowledge of programming techniques.

Syllabus

1. Introduction to SVARs
2. Short-Run and Long-Run Restrictions
3. Narrative Identification
4. Sign and Magnitude Restrictions
5. VAR versus VEC model specifications
6. Global VARs & proxy-VARs
7. Identification through heteroskedasticity/non-Gaussianity
8. Local Projections

References

General references

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- Bayesian Estimation, Analysis and Regression (BEAR) toolbox and technical guide (the toolbox and the documentation can be downloaded from here: <https://www.ecb.europa.eu/pub/research/working-papers/html/bear-toolbox.en.html>)
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Narrative identification

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Sign, magnitude and narrative restrictions

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Identification through heteroskedasticity/non-gaussianity

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GVARs

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Local Projections

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