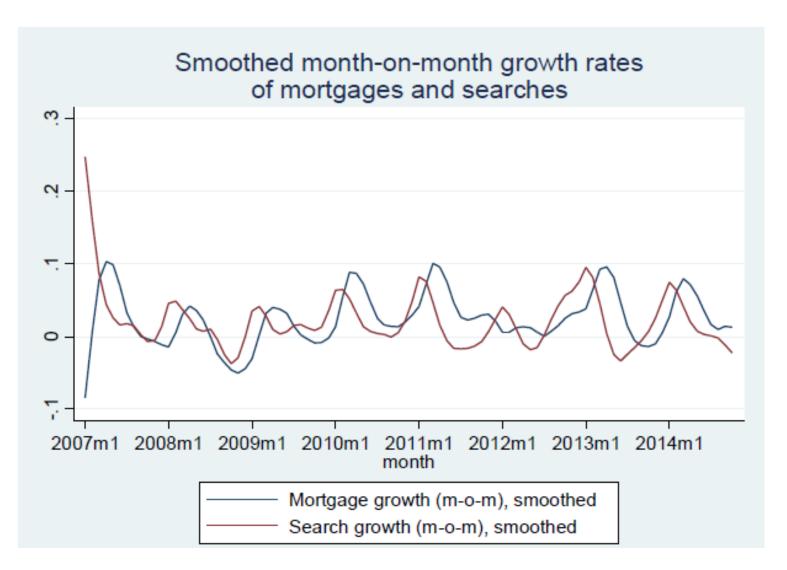
Forecasting Mortgages: Internet Search Data as a Proxy for Mortgage Credit Demand By Branislav Saxa

Discussion by
Francesco D'Amuri
Bank of Italy and IZA

Main ideas of the paper

- 1) Create an index of the incidence over weeks of google searches related to mortgages
- 2) Test whether such an index can be a leading indicator for new mortganges
- 3) The difference between the interest in mortgages (demand) and actual new mortgages can be an indirect indicator for credit rationing

Google searches seems to be a good leading indicator



Forecasting

Table 2: Mortgage Growth Out-of-sample Forecasting Exercise

	AR(1)	ARX	Change	Diebold-Mariano	
				S(1)	p-value
One-step-ahead foreca	st				
MAE	0.1411	0.1162	-18%		
RMSE	0.1919	0.1475	-23%		
				4.25	0.00
Two-steps-ahead forecast					
MAE	0.1420	0.1150	-19%		
RMSE	0.1924	0.1466	-24%		
				4.27	0.00

Weaker but still good results with seasonal terms

Discussion

Certainly encouraging results, confirming previous applications

Further research could improve robustness

A longer time series

Now forecast comparison only takes place starting with 2007 (google series is available since then)

But results lose practical relevance if a nongoogle estimate run on a longer time inteval would have a better forecasting performance

Alternative exogenous variables

Unemployment rate PMI/Consumer expectations

Interesting to see whether these have a better forecasting power (either alone or in combination with google data)

Alternative in sample/out of sample

Currently in sample (25%) is quite small compared to out of sample

I would try using more combinations of insample/out of sample

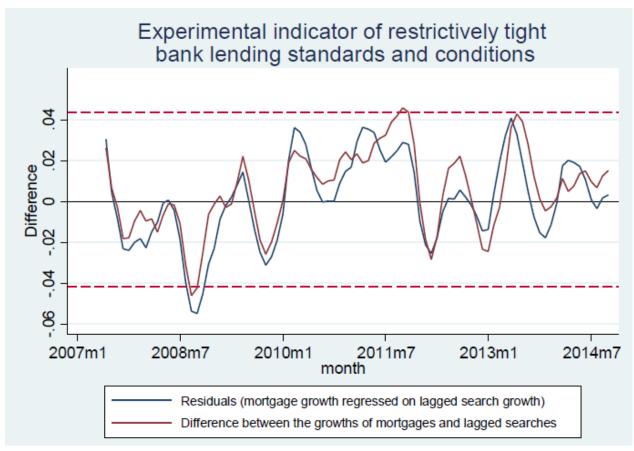
Check whether results hold in different business cycle conditions

Alternative specifications

Different lag structures

MA term?

Tightness indicator



Comparison with BLS (2012-)?