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Delta-method inference for a class of set-identified SVARs

Bulat Gafarov, Matthias Meier, José Luis Montiel Olea

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ACCEPTED MANUSCRIPT

DELTA-METHOD INFERENCE FOR A CLASS OF SET-IDENTIFIED SVARS 1

Bulat Gafarov 2 , Matthias Meier 3 and José Luis Montiel Olea 4

We study vector autoregressions that impose equality and/or inequality restrictions to set-identify the dynamic responses to a single structural shock. We make three contributions. First, we present an algorithm to compute the largest and smallest value that an impulse-response coefficient can attain over its identified set. Second, we provide conditions under which these largest and smallest values are directionally differentiable functions of the model's reduced-form parameters. Third, we propose a delta-method approach to conduct inference about the structural impulse-response coefficients. We use our results to assess the effects of the announcement of the Quantitative Easing program in August 2010. (JEL-Classification: C1, C32, E47).

Keywords: Set-Identification, Sign Restrictions, SVAR, Directional Differentiability, Unconventional Monetary Policy.

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² University of California, Davis, Department of Agricultural and Resource Economics. E-mail: bgafarov@ucdavis.edu.

³ Mannheim University, Department of Economics. E-mail: m.meier@uni-mannheim.de.

⁴ Corresponding author; Columbia University, Department of Economics. E-mail: jm4474@columbia.edu. This draft: December 11, 2017. First draft: November 19th, 2014.

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