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Controlling Omitted Variables and Measurement Errors by Means of Constrained Autoregression and Structural Equation Modeling Theory, Simulations and Application to Measuring Household Preferences for In-House Piped Water in Indonesia

Yusep Suparman

1. Methodology, like sex, is better demonstrated than discussed, though often better anticipated than experienced. (Leamer, 1983)
2. The primacy of empirical modeling is the theoretical model which drives data collection and data analysis subject to methodological and statistical constraints.
3. Omitted variables and measurement errors can be adequately and simultaneously controlled by means of a constrained autoregressive - structural equation model (ASEM). (This thesis)
4. The constrained autoregression model outperforms the time-invariant omitted variable approaches and the autoregression model in terms of bias and mean square error. (This thesis)
5. Based on the probability of a Type I error and the power of a test, the likelihood ratio test is an adequate test to decide about the adoption of constrained autoregression to control omitted variables. (This thesis)
6. In-house piped water is the most effective mode for controlling waterborne diseases. (Hutton and Haller, 2004)
7. The preference for in-house piped water is inversely related to the availability and the quality of drinking-water from rivers, lakes and wells. (This thesis)
8. In contrast to the Government of Indonesia's water provision policy, households in rural and urban Indonesia virtually have the same preference for in-house piped water, as measured by their willingness to pay relative in terms of imputed house rent. (This thesis)
9. Doing a PhD is not only training one's expertise and skills but also shaping one's attitudes to be more open and more critical, more patient and more persistent.
10. *Cikaracak ninggang batu, laun-laun jadi legok* (Slowly but surely, small continuous dropping water will make a cavity in a stone): Patience and persistence are two important keys to success. (Sundaness proverb)