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	Soggetti	Labor supply - Effect of technological innovations on - Mathematical models
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		Econometrics
		Labor
		Macroeconomics
		Innovation
		Research and Development
		Technological Change
		Intellectual Property Rights: General
		Labor Economics: General
		Wages, Compensation, and Labor Costs: General
		Time-Series Models
		Dynamic Quantile Regressions
		Dynamic Treatment Effect Models
		Diffusion Processes
		State Space Models
		Price Level
		Inflation
		Deflation
		Labour
		income economics
		Technology
		general issues
		Econometrics & economic statistics
		Real wages
		Structural vector autoregression
		Sticky prices
		Econometric analysis

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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Cover; Contents; I. Introduction; II. Stylized facts and the RBC model; A. Stylized facts; Figures; 1. SVAR IRFs following a technology shock; B. The benchmark RBC model; 1. Representative household's and firm's problems; 2. Impulse-response functions; III. Alternative models; A. The sticky price (SP) model; 2. Impulse-response functions: SVAR versus the standard RBC model; B. The entry-exit (EE) model; 3. Impulse-response functions: SVAR versus the SP model; C. The habit in consumption (HC) model; 4. Impulse-response functions: SVAR versus the EE model 5. Impulse-response functions: SVAR versus the HC modelD. The persistent technology shock (PT) model; E. The labor friction (LF) model; 6. Impulse-response functions: SVAR versus the PT model; F. The Leontief production (LP) model; 7. Impulse-response functions: SVAR versus the LF model; IV. Full information estimation and model comparison; 8. Impulse-response functions: SVAR versus the LP model; A. Priors and data; Tables; 1. Prior distributions of parameters; B. Estimation results and model comparison; 2. Parameter Estimation Results; C. Impulse-response functions 9. IRFs of the Alternative Estimated ModelsD. Autocorrelation functions; 10. Autocorrelations of the Alternative Models; 3. Autocorrelation statistics; V. Robustness; 4. Estimation results with sticky wages; 11. Autocorrelations: SP versus HC model; VI. Conclusion; References
Sommario/riassunto	The paper asks how state of the art DSGE models that account for the conditional response of hours following a positive neutral technology shock compare in a marginal likelihood race. To that end we construct and estimate several competing small-scale DSGE models that extend the standard real business cycle model. In particular, we identify from the literature six different hypotheses that generate the empirically observed decline in worked hours after a positive technology shock. These models alternatively exhibit (i) sticky prices; (ii) firm entry and exit with time to build; (iii) habit in consumption and costly adjustment of investment; (iv) persistence in the permanent technology shocks; (v) labor market friction with procyclical hiring costs; and (vi) Leontief production function with labor-saving technology shocks. In terms of model posterior probabilities, impulse responses, and autocorrelations, the model favored is the one that exhibits habit formation in consumption and investment adjustment costs. A robustness test shows that the sticky price model becomes as competitive as the habit formation and costly adjustment of investment model when sticky wages are included.