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An Introduction to Computational Macroeconomics

SERIES IN ECONOMIC METHODOLOGY

BRIDGING LANGUAGES AND SCHOLARSHIP

About the author

Anelí Bongers is a Young Talented Research Fellow in the Department of Economics and Economic History of the University of Málaga (Spain). Having received a PhD in Economics from the University of Malaga, her fields of research are mainly focused on technological change, economic growth, environmental economics, and international migration. She has published in journals such as *Research Policy*, *PlosOne*, *Technological Forecasting and Social Change*, and *Operational Research*.

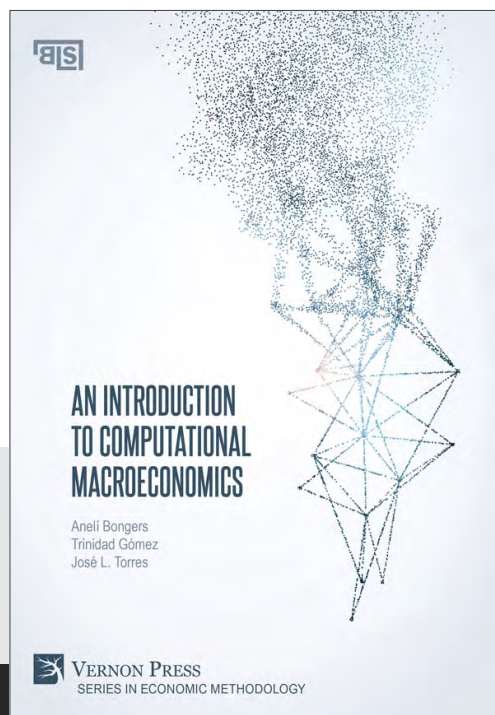
Trinidad Gómez is a University Professor of Mathematics in the Department of Applied Economics (Mathematics) at the University of Málaga (Spain), where she teaches Mathematics and Operations Research. With a PhD in Economics and Business Administration from the University of Malaga, her main lines of research are focused on solving real problems in the field of Economics and Business, taking into account economic, social and environmental aspects. She has participated in regional, national and international competitive projects, as well as contracts with the Public Administration. She is the author of numerous publications in journals, book chapters, and books.

José L. Torres is Professor of Macroeconomics in the Department of Economics and Economic History of the University of Málaga (Spain). His current research areas include technological change and economic growth, and stochastic dynamic general equilibrium models. He has published several books and a large number of articles in journals such as *Research Policy*,

Technological and Economic Development of Economy, *Journal of International Financial Markets, Institutions and Money*, *Review of Economic Dynamics*, *Information Economics and Policy*, *Public Choice*, *Macroeconomic Dynamics*, *Journal of Macroeconomics*, *Eastern Europe Economics*, *Empirical Economics*, *Economic Modelling*, *Open Economies Review*, and *SERIES*, among others.

Summary

This book presents an introduction to computational macroeconomics, using a new approach to the study of dynamic macroeconomic models. It solves a variety of models in discrete time numerically, using a Microsoft Excel spreadsheet as a computer tool. The solved models include dynamic macroeconomic models with rational expectations, both non-microfounded and microfounded, constituting a novel approach that facilitates the learning and use of dynamic general equilibrium models, which have now become the principal tool for macroeconomic analysis. Spreadsheets are widely known and relatively easy to use, meaning that the computer skills needed to work with dynamic general equilibrium models are affordable for undergraduate students in Advanced Macroeconomics courses.



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