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# Perturbation and Projection Methods for Solving DSGE Models

Lawrence J. Christiano

Discussion of projections taken from Christiano-Fisher, 'Algorithms for Solving Dynamic Models with Occasionally Binding Constraints', 2009, *Journal of Economic Dynamics and Control*.  
Discussion of perturbations taken from Judd's textbook.

# Perturbation and Projection Methods for Solving DSGE Models

Lawrence J. Christiano

# Solving Dsge Models With Perturbation Methods And A Change

**Oren Levintal**



## **Solving Dsge Models With Perturbation Methods And A Change:**

**The Oxford Handbook of Computational Economics and Finance** Shu-Heng Chen, Mak Kaboudan, Ye-Rong Du, 2018-01-12 The Oxford Handbook of Computational Economics and Finance provides a survey of both the foundations of and recent advances in the frontiers of analysis and action It is both historically and interdisciplinarily rich and also tightly connected to the rise of digital society It begins with the conventional view of computational economics including recent algorithmic development in computing rational expectations volatility and general equilibrium It then moves from traditional computing in economics and finance to recent developments in natural computing including applications of nature inspired intelligence genetic programming swarm intelligence and fuzzy logic Also examined are recent developments of network and agent based computing in economics How these approaches are applied is examined in chapters on such subjects as trading robots and automated markets The last part deals with the epistemology of simulation in its trinity form with the integration of simulation computation and dynamics Distinctive is the focus on natural computationalism and the examination of the implications of intelligent machines for the future of computational economics and finance Not merely individual robots but whole integrated systems are extending their immigration to the world of Homo sapiens or symbiogenesis *Handbook of Computational Economics* Karl Schmedders, Kenneth L. Judd, 2013-12-31 Handbook of Computational Economics summarizes recent advances in economic thought revealing some of the potential offered by modern computational methods With computational power increasing in hardware and algorithms many economists are closing the gap between economic practice and the frontiers of computational mathematics In their efforts to accelerate the incorporation of computational power into mainstream research contributors to this volume update the improvements in algorithms that have sharpened econometric tools solution methods for dynamic optimization and equilibrium models and applications to public finance macroeconomics and auctions They also cover the switch to massive parallelism in the creation of more powerful computers with advances in the development of high power and high throughput computing Much more can be done to expand the value of computational modeling in economics In conjunction with volume one 1996 and volume two 2006 this volume offers a remarkable picture of the recent development of economics as a science as well as an exciting preview of its future potential Samples different styles and approaches reflecting the breadth of computational economics as practiced today Focuses on problems with few well developed solutions in the literature of other disciplines Emphasizes the potential for increasing the value of computational modeling in economics **Efficient Perturbation Methods for Solving Regime-Switching DSGE Models** Maih, Junior, 2015 In an environment where economic structures break variances change distributions shift conventional policies weaken and past events tend to reoccur economic agents have to form expectations over different regimes This makes the regime switching dynamic stochastic general equilibrium RS DSGE model the natural framework for analyzing the dynamics of macroeconomic variables We present efficient solution methods for solving this class of models

allowing for the transition probabilities to be endogenous and for agents to react to anticipated events The solution algorithms derived use a perturbation strategy which unlike what has been proposed in the literature does not rely on the partitioning of the switching parameters These algorithms are all implemented in RISE a flexible object oriented toolbox that can easily integrate alternative solution methods We show that our algorithms replicate various examples found in the literature Among those is a switching RBC model for which we present a third order perturbation solution

**Monetary Policy and Macroprudential Regulation with Financial Frictions** Pierre-Richard Agenor, 2020-11-10 An integrated analysis of how financial frictions can be accounted for in macroeconomic models built to study monetary policy and macroprudential regulation Since the global financial crisis there has been a renewed effort to emphasize financial frictions in designing closed and open economy macroeconomic models for monetary and macroprudential policy analysis Drawing on the extensive literature of the past decade as well as his own contributions in this book Pierre Richard Ag nor provides a unified set of theoretical and quantitative macroeconomic models with financial frictions to explore issues that have emerged in the wake of the crisis These include the need to understand better how the financial system amplifies and propagates shocks originating elsewhere in the economy how it can itself be a source of aggregate fluctuations the extent to which central banks should account for financial stability considerations in the conduct of monetary policy whether national central banks and regulators should coordinate their policies to promote macroeconomic and financial stability and how much countercyclical macroprudential policies should be coordinated at the international level to mitigate financial spillovers across countries Ag nor focuses on upper middle income countries which differ from advanced economies in terms of both their structural features which include a financial sector dominated by banks weak supervisory capacity and a high degree of vulnerability to external shocks and their long standing policy challenges such as managing volatile capital flows Some of the analytical insights and broad policy lessons that can be drawn from the book will be of relevance to advanced economies as well

*Finance India* ,2007

**Efficient Perturbation Methods for Solving Regime-switching DSGE Models** Maih, Junior, 2015

*Economie & prévision* ,2008

[Solving DSGE Models with a Nonlinear Moving Average](#) Hong Lan, Alexander Meyer-Gohde, 2011 We introduce a nonlinear infinite moving average as an alternative to the standard state space policy function for solving nonlinear DSGE models Perturbation of the nonlinear moving average policy function provides a direct mapping from a history of innovations to endogenous variables decomposes the contributions from individual orders of uncertainty and nonlinearity and enables familiar impulse response analysis in nonlinear settings When the linear approximation is saddle stable and free of unit roots higher order terms are likewise saddle stable and first order corrections for uncertainty are zero We derive the third order approximation explicitly and examine the accuracy of the method using Euler equation tests Perturbation nonlinear impulse response DSGE solution methods

*A Comparison of Numerical Methods for the Solution of Continuous-time DSGE Models* Juan Carlos Parra-Alvarez, 2013

**On**

**approximating DSGE models by series expansions** Giovanni Lombardo,2010      **A General and Efficient Method for Solving Regime-Switching DSGE Models** Julien Albertini,Stephane Moyen,2022 This paper provides a general representation of endogenous and threshold based regime switching models and develops an efficient numerical solution method The regime switching is triggered endogenously when some variables cross threshold conditions that can themselves be regime dependent We illustrate our approach using a RBC model with state dependent government spending policies It is shown that regime switching models involve strong non linearities and discontinuities in the dynamics of the model However our numerical solution based on simulation and projection methods with regime dependent policy rules is accurate and fast enough to efficiently take into account all of these challenging aspects Several alternative specifications to the model and the method are studied      *Pruning in Perturbation DSGE Models* Hong Lan,Alexander Meyer-Gohde,2013      **Solving Second and Third-order Approximations to DSGE Models** Andrew Binning,2013      Solving Linear DSGE Models with Newton Methods Alexander Meyer-Gohde,Johanna Saecker,2022      Existence and Uniqueness of Perturbation Solutions to DSGE Models Hong Lan,Alexander Meyer-Gohde,2012      Solving DSGE Models Without a Grid Oren Levintal,2013 This paper presents a global solution method to DSGE models which does not depend on a grid and hence does not suffer from the curse of dimensionality The method enables to approximate the Taylor series of the policy function at any arbitrary point of the state space Once the Taylor series is approximated at a given point the constant term of the series provides the model solution at that point Since the solution is not based on a grid the computational costs are significantly lower compared to grid based methods because the model is solved only at points of interests e g along a simulation path Accuracy is high compared to other methods and it improves significantly by discretizing time into short periods      *Fifth-Order Perturbation Solution to DSGE Models* Oren Levintal,2017 This paper derives a fifth order perturbation solution to DSGE models The paper develops a new notation that reduces the notational complexity of high order solutions and yields a faster code The new notation consists of new matrix forms of high order multivariate chain rules and a new representation of the model as a function of one vector variable The algorithm that implements the new notation is between 3 to 55 times faster than Dynare depending on model size and solution order      A Framework for Solving Non-Linear DSGE Models Ricardo Masini,2019 We propose a framework to solve non linear DSGE models combining approximation and estimation techniques Instead of relying on a fixed grid we use Monte Carlo methods to draw samples from the state space which are used to estimate an approximation for the value or policy functions of interest By using estimators from high dimensional statistics we can attenuate the curse of dimensionality while maintaining flexibility theoretical guarantees for convergence and upper bound for the errors In particular we propose two different methods a regularized projection and a support vector machine algorithm To illustrate these solution procedures we apply the first algorithm to solve a standard growth model which has a known linear solution and show that it achieves good accuracy correctly shrinking the coefficients of a polynomial basis

Moreover we use the support vector machine algorithm to solve a New Keynesian model with a Zero Lower Bound ZLB and compare our results with the ones from the Smolyak Method which is widely used in the literature We show that the latter overestimate the impact of the ZLB in the economy achieving a lower accuracy than the one from our solution

**Perturbation Methods for First and Second Order Ordinary Differential Equations** Wan Khadijah Wan Sulaiman,2011      **Essays on Higher Order Approximation Solution Mmethods for DSGE Models** ,2015

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