

## **Curriculum Vitae (with Publications)**

First and last name: Stefano ZAMBELLI  
Date of birth: March 4, 1958  
Place of birth: Alfonsine, Ravenna - Italy  
Citizenship: Italian

Current position Professor, Economics, Department of Economics and Management,  
University of Trento, Italy

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Languages: (Fluent) Italian, English, Danish  
(Reading capacity) French, Norwegian,  
Swedish

## **Education & Training**

10/06/1976 American High School Diploma, Verdugo Hills High School, Los Angeles, USA (AFS – Scholarship)  
21/07/1977 Diploma in Nuclear Energy, Technical Institute Fermo Corni, Modena, Italy.  
11/07/1985 Graduation cum lauda from the University of Modena, Department of Economics, Degree in Economics  
01/01/1986 – 30/04/1989 Researcher – Research Department of the Banca Commerciale Italiana, Milano, Italy – Member of the Macroeconomics and Monetary Policy Research Group cooperating with the Economists of the Bocconi University.  
01/01/1987 – 30/06/1987 Visiting Scholar – Department of Economics, UCLA, Los Angeles, USA.

## Positions & Honours

01/05/1989 – 31/07/1992	Assistant Professor – Department of Economics, Politics and Public Administration, Aalborg University, Denmark.
01/01/1991 – 30/06/1991	Visiting Professor – Center for Computable Economics, Department of Economics, UCLA, Los Angeles, USA
01/03/1992 – 30/06/1992	Visiting Professor – Center for Computable Economics, Department of Economics, UCLA, Los Angeles, USA
01/08/1992 – 31/08/2005	Associate Professor – Department of Economics, Politics and Public Administration, Aalborg University, Denmark.
01/01/1993 – 31/03/1993	Visiting Professor – Department of Statistics, Bologna University, Italy.
01/01/1993 – 01/01/1995	Member of the Economics Study Board, Social Sciences Faculty, Aalborg University.
31/03/1993 – 31/06/1993	Visiting Professor – Department of Economics, Modena University, Italy.
01/01/1996 – 01/02/2008	Elected member of the Governing Board of the Department of Economics, Politics and Public Administration, Aalborg University.
01/02/1997 – 31/12/1997	Member of the Commission for the evaluation of the Danish participation to IIASA – International Institute of Applied Systems Analysis.
01/01/2000 – 31/12/2003	Danish Social Science Research Council. Project on “Economics theory and methods: bounded rationality, heterogeneous agents, computer simulations and experiments”.
01/01/2001 – 31/06/2001	Visiting Professor – Department of Economics, Modena University, Italy.
01/09/2005 – 29/02/2008	Professor of Economics - Department of Economics, Politics and Public Administration, Aalborg University, Denmark.
01/09/2006 – 30/06/2007	Visiting Professor – Department of Economics (CIFREM - Interdepartmental Centre for Research Training in Economics and Management) – University of Trento, Italy.
01/09/2006 – current	Staff member of Economics and Management, PhD Programme, School in Social Sciences, University of Trento, Italy.
01/02/2008 – current	Professor of Political Economy, Department of Economics, University of Trento, Italy.
01/01/2010 – current	(Founding) Member of the Algorithmic Social Sciences Research Unit (ASSRU <a href="http://www.assru.economia.unitn.it">www.assru.economia.unitn.it</a> ), Department of Economics, University of Trento, Italy.
01/11/2010 – 11/04/2011	Head of Department, Department of Economics, University of Trento, Italy.

## Teaching experience

- 01/01/1986 – 30/04/1989 Research Department Banca Commerciale Italiana, responsible of the teaching of Macroeconomics and Monetary Policy to both selected employees of the bank and visiting students coming from Japan and several African nations.
- 01/05/1989 – current date Teaching responsibilities that cover a wide spectrum of a university employee's teaching obligations.  
**Bachelor Level:** Macroeconomics taught at the 5<sup>th</sup> or 6<sup>th</sup> semester (Supervisor for circa 30 Bachelor dissertations).  
**Graduate Level:** Macroeconomic Dynamics, Business Cycle Theories, Growth Theories, Sraffian Economics, Monetary Economics, Advanced Macroeconomics, Keynesian Macroeconomics, Computational and Computable Economics (Supervisor of circa 70 Master Dissertations and 5 PhD dissertations).  
**PhD Level:** Macroeconomics, Computational Economics and Computable Economics.

## Conferences, Workshops: Organizer, Contributor and/or Invited Speaker (From 2004 to 2014).

Conference on *Surrogates, Humbugs and other Pseudo-Production Functions on the 50th Anniversary of 'The Surrogate Production Function'. A Symposium in Honour of Prof. Anwar Shaikh*, ASSRU & Department of Economics, University of Trento, May 23, 2012.

Conference on *Economic Development in South, Southeast and East Asia: A Retrospective and Some Prospects* ASSRU & Department of Economics, University of Trento, May 24-25, 2012.

### Celebrating the 60th Anniversary of MONIAC

(7-8 December, 2010)

Workshop L'ECONOMIA MONDIALE TRA RECESSIONE E CRESCITA I contributi degli economisti laureati a Modena, 9 Novembre 2009.

Invited Speaker: **Infelicities in the foundations of real business cycle theory**

(Organizer with K. Vela Velupillai) **Nonlinearity, Complexity and Randomness**, Department of Economics/CIFREM, University of Trento, 27/28 October, 2009

Speaker-Contribution: ***Forced vs. Coupled Nonlinear Macrodynamics: Endogenous Complexity and Randomness***

(Organizer with K. Vela Velupillai) **Non-equilibrium Monetary Dynamics**, Department of Economics/CIFREM, University of Trento, 28 May, 2009

Speaker-Contribution: *Non-equilibrium Economic Dynamics*

(Organizer with K. Vela Velupillai) **Nonlinear Dynamics in Economics and Finance**, Department of Economics/CIFREM, University of Trento 12- 3 March, 2009

Speaker-Contribution: *Numerical Analysis, Dynamical Systems and Computation In Nonlinear Dynamics*

(Organizer with K. Vela Velupillai) **Agent-based Modelling in Economics and Finance**, Department of Economics/CIFREM, University of Trento, May 19-20, 2008

Speaker-Contribution: *Introductory Talk*

(Organizer with Charlotte Bruun) Artificial Economics. **A Symposium on Agent-Based Computational Methods in Economics and Finance**, Aalborg University, 15-16 September 2006

Invited Lecturer. **NUIG workshop on Computable Macroeconomics**, Department of Economics, University of Galway. 25 November 2005

Main Speaker: *Computable Macroeconomics*

Invited Lectures – One Day Workshop on **Computable Macroeconomics**, Department of Economics/CIFREM, University of Trento, June 1, 2005

*Introduction to Turing Machines*

*Introduction to Endogenous Growth Theory*

*Computable Endogenous Growth Theory*

*Computable or Recursive Macroeconomics?*

Worth mentioning:

June, 1989            Organizer (together with K. Vela Velupillai and Niels Tygensen) International Economic association Conference "Recent Developments in Business Cycles: Theories, Evidence and Analysis", Copenhagen.

August, 1992,        Organizer (together with Helge Brink) First Summer School on Computable Economics, Aalborg University.

## **Editorial Appointments 2004-2014**

Member, Board of Advisory Editors, **Economia Politica**/ Journal of Analytical and institutional Economics, Il Mulino, Bologna, from 2009.

Member, Editorial Board, **Global & Local Economic Review**, Fondazione Pescarabruzzo. from 2009.

Member, Editorial Board, **New Mathematics and Natural Computation**, World Scientific, from 2010.

(Associate) Editor of the Themed Issue on “*Nonlinearity, Complexity and Randomness*”, **Journal of Economic Surveys**, from 2009 to 2011.

Editor, jointly with Stephen Kinsella & K. Vela Velupillai. **The International Library of Critical Writings in Economics: The Elgar Companion to Computable Economics**, from 2009 to 2011.

Series Editor (from 2009 and jointly with K. Vela Velupillai), ***Routledge Series on Computable and Experimental Economics***.

## **List of Publications**

### **Journal Articles**

- S. Zambelli, "**Dynamical Coupling, Nonlinear Accelerator and the Persistence of Business Cycles**" in CAMBRIDGE JOURNAL OF ECONOMICS, 2015 (forthcoming)
- K. Velupillai, V. Ragupathy, S. Zambelli, "**Albert Aftalion and Business Cycle Theory: A Note**" in ECONOMIA POLITICA, 2014 (in print)
- K. Velupillai, S. Zambelli, "**The Epistemology of Simulation, Computation and Dynamics in Economics**" in JOURNAL OF ECONOMIC METHODOLOGY, DOI: 10.1080/1350178X.2015.1004933, 2014 (in print).
- T. Fredholm, S. Zambelli, "**Production functions behaving badly - Reconsidering Fisher and Shaikh**" in GLOBAL & LOCAL ECONOMIC REVIEW, v. 2013, n. 1, pp. 181-198, 2013.
- K. Velupillai, V. Ragupathy, S. Zambelli, "**A Non-Linear Model of the Trade Cycle: Mathematical Reflections on Hugh Hudson's Classic**" in AUSTRALIAN ECONOMIC PAPERS, v. 51, nr. June, pp. 115-125, 2013.
- Y-F. Kao, V. Ragupathy, K. Velupillai, S. Zambelli, "**Noncomputability, Unpredictability, Undecidability, and Unsolvability in Economic and Finance Theories**" in COMPLEXITY, v. 18, nr. 1, pp. 51-55, 2012.
- S. Zambelli, "**Computable Economics: Reconstructing the Nonconstructive**" in NEW MATHEMATICS AND NATURAL COMPUTATION, v. 8, nr. 1, pp.113-122, 2012.
- S. Zambelli, "**Flexible Accelerator Economic Systems and Coupled Oscillators**" in JOURNAL OF ECONOMIC SURVEYS, v. 25, nr. 3, pp. 608-63, 2011.
- S. Zambelli, "**Introduction to the Joes Special issue on Non Linearity, Randomness and complexity**", in JOURNAL OF ECONOMIC SURVEYS, pp.395-400, v. 25, nr. 3, 2011.
- S. Zambelli, "**Coupled Dynamics in a Phillips Machine Model of a Macroeconomy**" in ECONOMIA POLITICA, pp.171-186, 2011.

- S. Zambelli, M. Degasperi, "**Technological Progress in Italian Regions: Some Comparisons**", in GLOBAL & LOCAL ECONOMIC REVIEW, pp. 3-23, v.14, n. 2, 2010.
- S. Zambelli, "**A Comment on Phillip Mirowski. Markets Come to Bits: Evolution, Computation and Markomata in Economic Science**" in JOURNAL OF ECONOMIC BEHAVIOR & ORGANIZATION, v. 63, nr. 1, pp. 354-358, 2007.
- S. Zambelli, "**The Rocking Horse That Never Rocked: Frisch's "Propagation and Impulse Problem"**" in HISTORY OF POLITICAL ECONOMY, v. 39, n. 1, pp. 145-166, 2007.
- S. Zambelli, "**Production of Ideas by Means of Ideas**" in METROECONOMICA, v. 55, n. 2-3, pp. 155-179, 2004.
- S. Zambelli, "**The 40% Neoclassical Aggregate Theory of Production. Results of a Simulation Investigation**" in CAMBRIDGE JOURNAL OF ECONOMICS, v. 2004, n. 28, pp. 99-120, 2004.
- S. Zambelli, "**Logica della calcolabilità ed applicazioni economiche**" in NOTE ECONOMICHE, v. XXV, n. 1 (1995), p. 191-216
- S. Zambelli, "**Neural Networks and Fuzzy Systems (Review)**" in JOURNAL OF ECONOMIC DYNAMICS & CONTROL, v. 17, n. 2 (1993), p. 191-216

### Edited Books

- D. George, S. Zambelli, (eds.), "**Nonlinearity, Complexity and Randomness in Economics: Towards Algorithmic Foundations for Economics**", Wiley-Blackwell Publishing, Oxford, 2012.
- K. Velupillai, S. Zambelli, S. Kinsella (eds.), "**The Elgar Companion on Computable Economics**", Edward Elgar Publishing, 2011.
- S. Zambelli (editor), "**Computable, Constructive and Behavioural Economic Dynamics Essays in Honour of Kumaraswamy (Vela) Velupillai**". Contributors: S. Zambelli, R. W. Clower, P. Samuelson, R. Solow, A. Leijonhufvud, G. Chaitin, A.N. C. da Costa, F. A. Doria, J. Rissanen, D. Foley, J. McCall, B. Rosser, R. Day, H. J. Holm, K. Prasad, T. Lawson, C. Heyn-johnsen, T. A. Boylan, P. F. O'gorman, B. Thalberg, G.C. Harcourt, P. Kerr, G. Chiodi, S. Sordi, J. L. Mccauley, S.-H. Chen, Ya-chi Huang, Jen-fu Wang, R. Abraham, T. Feldman, D. Friedman, F. Luna, C. Bruun, E. De Antoni, C. Lee, V. Velupillai, Oxon; New York: Routledge, 2010, 533 p. - (Routledge Frontiers of Political Economy; 126). - ISBN: 978-0-415-49263-8. - URL: <http://www.routledgeeconomics.com/books/Computable-Constructive-and-Behavioural-Economic-Dynamics-isbn9780415492638>
- K. Velupillai, N. Thygesen, S. Zambelli (eds.), "**Recent Developments in Business Cycles: Theories, Evidence and Analysis**", Contributors: R. Abraham, F. Capie, B. Eichengreen, R. Entov, C. Feinstein, C. Fershtman, J-P. Fitoussi, J. Goldstein, R. Goodwin, C. Kindelberger, F. Kydland, J. Lafargue, M. Lippi, H-W. Lorenz, P. Malgrange, J. McCall, M. Paldam, V. Poletayev, E. Prescott, P. Rasmussen, L. Reichling, N. Thygesen, K. Velupillai, S. Zambelli, London ; New York, N.Y.: MacMillan, 1991, 449 p. - (Proceedings of the 8th International Economic Association). - ISBN: 0-333-52449-7. - Rungsted Kyst 7-11 June 1989

### Book Essays

- K. Velupillai, S. Zambelli, "**Computability and Algorithmic Complexity in Economics**", in H. Zenil, A Computable Universe, World Scientific, Singapore, 2012 (In print).
- S. Zambelli, "**Flexible accelerator economic systems as coupled oscillators**", in D. George. S. Zambelli (eds), "**Nonlinearity, Complexity and Randomness in Economics: Towards Algorithmic Foundations for Economics**", pp.211-236, 2012.

- S. Zambelli, **“Introduction”**, in G. Donald, S. Zambelli (eds), **“Nonlinearity, Complexity and Randomness in Economics: Towards Algorithmic Foundations for Economics”**, pp.1-7, 2012.
- K. Velupillai, S. Zambelli, **“Computing in Economics”** in W. Hands, D. Bryan, **The Elgar Companion to Recent Economic Methodology**, Edward Elgar Publishing, pp. 259-295, 2011.
- S. Zambelli, **“Production of Ideas by Means of Ideas”** in K. Velupillai, S. Zambelli, S. Kinsella (eds.), **The Elgar Companion on Computable Economics**, Edward Elgar Publishing, pp. 497-521, 2011.
- S. Zambelli, **“Computable and Constructive Economics, Undecidable Dynamics and Algorithmic Rationality: An Essay in Honour of Kumaraswamy (Vela) Velupillai”** in S. Zambelli (ed.), **Computable, Constructive and Behavioural Economic Dynamics: Essays in Honour of Kumaraswamy (Vela) Velupillai**, Oxun; New York: Routledge, pp. 13-45, 2010.
- S. Zambelli, **“Introduction”** in S. Zambelli (editor), **Computable, Constructive and Behavioural Economic Dynamics: Essays in Honour of Kumaraswamy (Vela) Velupillai**, Oxon; New York: Routledge, pp. 1-12, 2010.
- S. Zambelli, **“Computable Knowledge and Undecidability: A Turing Machine Metaphor applied to Endogenous Growth Theory”** in K. Velupillai (editor), **Computability, Complexity and Constructivity in Economic Analysis**, Oxford [etc.]: Blackwell, pp. 233-263, 2005.
- S. Zambelli, **“Macroeconomic Dynamics and Frequency Locking”** in R. Conte, R. Hegselmann, P. Terna (eds), **Simulating Social Phenomena**, Berlin: Springer, pp. 295-302, 1997.
- S. Zambelli, **“A Test of Rational Expectation and the Permanent Income Hypothesis Using Swedish Data: 1963-87 (Discussion)”** in K. Velupillai (editor), **Nonlinearities, Disequilibria and Simulations. Proceedings of the Arne Ryde symposium on quantitative methods in the stabilization of macrodynamic systems. Essays in honour of Björn Thalberg**, London: Macmillan, pp. 185-193, 1992.
- S. Zambelli, **“The Wooden Horse that Wouldn't Rock: Reconsidering Frisch”** in K. Velupillai (editor), **Nonlinearity, Disequilibrium and Simulations: London. Proceedings of the Arne Ryde symposium on quantitative methods in the stabilization of macrodynamic systems. Essays in honour of Björn Thalberg**, Macmillan, pp. 27-54, 1992.

### Monographs

- T. Fredholm, S. Zambelli, **Measuring Structural and Technological Change from Technically Autarkic Subsystems A Study of Danish Industries 1966-2005**, Aalborg: Department of Economics, Politics and Public Administration, 2009, 80 p. - ISBN: 978-87-92174-83-3
- T. Fredholm, S. Zambelli, **The Technological Frontier An International an Inter-industrial Empirical Investigation of Efficiency, Technological Change and Convergence**, Aalborg: Department of Economics, Politics and Public Administration, 2009, 46 p. - ISBN: 978-87-92174-84-0

### Other Publications

- S. Zambelli, **“Production Functions are NOT Neoclassical”**, 55<sup>th</sup> Conference of the Italian Economic Association, Trento, October 24<sup>th</sup>, 2014.
- K. Vela Velupillai, R. Venkatachalam, S. Zambelli, **“Albert Aftalion and Business Cycle Theory: A Note”**, Discussion Papers 2014/I, nr.9, Algorithmic Social Sciences Research Unit (ASSRU), 2014.
- S. Zambelli, **“Aggregate Production Functions and Neoclassical Properties: An Empirical Verification”**, Discussion Papers 2014/I, nr.5, Algorithmic Social Sciences Research Unit (ASSRU), 2014.

- N. Dharmaraj, S.Zambelli, “ ‘**Carry – on – Activity**’ and **Process innovation**” - ASSRU Discussion Paper Series; 3, 2013, 26 p. - URL:
- T. Fredholm, R. Venkatachalam S.Zambelli, “**Robust Measurement of National Technological Progress**”, Discussion Papers 2014/I, nr.4, Algorithmic Social Sciences Research Unit (ASSRU), 2014.
- Y-F. Kao, V. Ragupathy, K. Vela Velupillai & S.Zambelli, “**Noncomputability, Unpredictability, Undecidability and Unsolvability in Economic & Finance Theories**”, Discussion Papers, 2012/II, nr.1, Algorithmic Social Sciences Research Unit (ASSRU), 2012.
- K. Vela Velupillai, S. Zambelli, “**Computability and Algorithmic Complexity in Economics**”, Discussion Papers 2012/I, nr.2, Algorithmic Social Sciences Research Unit (ASSRU), 2012.
- K. Vela Velupillai & Stefano Zambelli, “**Continuity, Discontinuity and Dynamics in Mathematics & Economics - Reconsidering Rosser's Visions**”, Discussion Papers 2011/I, nr.11, Algorithmic Social Sciences Research Unit (ASSRU), 2011.
- S.Zambelli, T. Fredholm, **An Algorithmic Contribution to a Sraffian Measurement of Technological Progress**, 52<sup>nd</sup> Conference of the Italian Economic Association, Rome, October 15<sup>th</sup>, 2011..
- K. Vela Velupillai & S. Zambelli, “**The Epistemology of Simulation, Computation and Dynamics in Economics Ennobling Synergies, Enfeebling 'Perfection'**”, Discussion Papers 2010, nr.2, Algorithmic Social Sciences Research Unit (ASSRU), 2010.
- S. Zambelli, “**Flexible Accelerator Economic Systems as Coupled Oscillators**”, Discussion Papers 2010, nr.4, Algorithmic Social Sciences Research Unit (ASSRU), 2010.
- T. Fredholm, S. Zambelli, “**An Algorithmic Measurement of Technical Progress**”, Discussion Papers 2010, nr.6, Algorithmic Social Sciences Research Unit (ASSRU), 2010.
- S. Zambelli, M. Degasperri, “**Technological Progress in Italian Regions: Some Comparisons**”, Discussion Papers 2010, nr.7, Algorithmic Social Sciences Research Unit (ASSRU), 2010.
- C. Heyn-Johnsen, S. Zambelli, " **Velfærdskommissionen udtaler sig ikke om velfærd. Af Carsten Heyn-Johnsen og Stefano Zambelli (Kritisk Debat, 15. sept. 2006)** ", 2006, 8 p. - URL: <http://www.tidsskriftcentret.dk/index.php?id=466>
- S. Zambelli, "**On Some Serious Methodological Problems Concerning the Analysis of the Danish Welfare Commission and the Use of the Dream Model**", Working Papers, Department of Economics, Politics and Public Administration, Aalborg University, 2006:1.
- S. Zambelli, "**Shapley-Shubik Power Index Values Applied to the Italian Parliament**", 2001, Discussion Paper, Aalborg University.
- M. Hjortlund, S. Zambelli, "**Borda Counts : is more information better than less?**", 1998, 9
- M. Hjortlund, S. Zambelli, "**On The Constitutional Choice of A Democratic Voting Rule**", Working Papers, Department of Economics, Politics and Public Administration, Aalborg University, 1998:7.
- S. Zambelli, "**Transition Dynamics, Macroeconomic Interdependence and Frequency Locking**", Working Papers, Department of Economics, Politics and Public Administration, Aalborg University, 1998:7, 1995:1.
- S. Zambelli, "**Computability and Economic Applications: The Research Program Computable Economics**", Working Papers, Department of Economics, Politics and Public Administration, Aalborg University, 1994.
- S. Zambelli, "**Mandater og parlamentariske magtpositioner i folketinget 1971-1994**", Working Papers, Department of Economics, Politics and Public Administration, Aalborg University, 1994.
- S. Zambelli, "**The Wooden Horse that Wouldn't Rock: Reconsidering Frisch**", Working Paper, Department of Economics, University of California, Los Angeles (UCLA), 1991. <http://www.econ.ucla.edu/workingpapers/wp623.pdf>

[Publications anterior to 1990 are not reported]

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