

Hans Kremers

Dr. Hans Kremers, 1963, ist seit dem 1. Juli 2009 als wissenschaftlicher Mitarbeiter im Forschungsbereich Umwelt- und Ressourcenökonomik, Umweltmanagement des Zentrums für Wirtschaftsforschung (ZEW) Mannheim beschäftigt. Er studierte Mathematische Ökonomik am Fachbereich Ökonometrie der Universität Tilburg, Niederlande. Nach seiner Promotion an diesem Fachbereich war er u.a. als Fellow der „Japan Society for the Promotion of Sciences“ (JSPS) an den Universitäten von Tsukuba und Osaka (Japan), als „Human Capital and Mobility“ (HCM) Fellow an der Universität Genua (Italien) und als NWO Postdoktorand „Environment and Economy“ an der Freien Universität in Amsterdam beschäftigt. Hans Kremers wissenschaftliches Interesse liegt in der Allgemeinen Gleichgewichtsmodellierung und deren Anwendung im Bereich Umwelt- und Transportpolitik.

Zuvor war Hans Kremers beim DIW Berlin beschäftigt und arbeitete an einem Projekt, das die Folgen des Klimawandels für den Obstbau in Deutschland untersuchte, regionale Differenzen in der potentiellen Vulnerabilität herausarbeitete, um hierauf basierend nachhaltige, praxisorientierte und ökonomisch vertretbare Anpassungsstrategien zu entwickeln. Zur Berechnung wurden ökologische und ökonomische Modelle verwendet. Innerhalb dieses Projektes, simulierte er Klima-induzierte Bodenverwendungsanpassungen im GTAP-E Model. Davor arbeitete er am ECOBICE Projekt. Dieses Projekt hatte das Ziel ein integriertes Bewertungsmodell aus einem ökonomischen Modell, einem ökologischen Modell und einem Klimamodell zu konstruieren, in dem die Konsequenzen von Klimaänderung auf die globale Wirtschaft untersucht werden. An der Freien Universität Amsterdam war er Mitarbeiter eines Teams unter der Führung von IVM Amsterdam, die ein Modell des, in Purdue, USA, angesiedelte Global Trade Analysis Project (GTAP) ausgearbeitet und angewandt hat, um damit die Folgen der im Kyoto Protokoll vorgeschlagene Klimapolitik zu analysieren.

- 1970 - 1982** Gymnasium (VWO)
- 1982 – 1983** Angewandte Mathematik, Technische Universität Eindhoven
- 1983 – 1988** Mathematische Ökonomie, Universität Tilburg
- 1988 – 1992** Ph.D., Fachbereich Ökonometrie, Universität Tilburg

Erfahrung:

- 1992 – 1994** Assistant Professor in Operations Research at the Department of Econometrics of Tilburg University, Tilburg
- 1994 – 1995** “Japan Society for the Promotion of Sciences” Fellow at the Institute of Socioeconomic Planning of Tsukuba University, Tsukuba
- 1995 – 1998** EU “Human Capital and Mobility” Fellow at the Instituto di Finanza of the University of Genoa, Genova
- 1998 - 2001** NWO Priority Program “Environment and Economy” Fellow at the Department of Spatial Economics, Free University, Amsterdam,
- 2001 - 2002** Wissenschaftlicher Mitarbeiter at the Institut für Volkswirtschaftslehre of the Christian-Albrecht-Universität-zu-Kiel, Kiel

- 2002 - 2004** Senior Researcher at the Scientific Pool of Environmental Economic Disciplines (SPEED) of the University of Oldenburg, Oldenburg
- 2004 - 2009** Senior Researcher at the Department of Energy, Transportation, Environment of the DIW Berlin, Berlin
- From 2009** Senior Researcher at the Department of Environmental and Resource Economics, Environmental Management of the ZEW in Mannheim.

Wissenschaftliche Veröffentlichungen (chronologisch):

1. H. Houba and J.A.W.M. Kremers (2009a), 'Bargaining for an efficient allocation of emission permits to developing countries', Mimeo, DIW Berlin.
2. H. Houba and J.A.W.M. Kremers (2009b), 'Environmental damage and price taking behaviour by firms and consumers', *DIW Discussion Paper* 878, DIW Berlin, and *Tinbergen Institute Working Paper* TI 09-029/1, Tinbergen Institute, Amsterdam, The Netherlands (submitted for publication in *Environmental and Resource Economics*).
3. D. Kalinowska and H. Kremers (2009), 'Fitting passenger travel into a CGE model', Mimeo, DIW Berlin (to be submitted to *Transport Policy*).
4. C. Kemfert and J.A.W.M. Kremers (2009), 'The cost of climate change to the German Fruit vegetation sector', *DIW Discussion Paper* Nr. 857, DIW Berlin (to be submitted to *Environmental Impact Assessment Review*).
5. C. Kemfert, H. Kremers, and T. Truong (2009), "Europe's twenties - A study using the WIATEC model", Mimeo, DIW Berlin (submitted for publication in the *Energy Journal*).
6. Siliverstovs, S., R. Ötsch, C. Kemfert, A. Haas, C. Jaeger, and H. Kremers (2009), "Climate change and modelling of extreme temperatures in Switzerland", *Stochastic Environmental Research and Risk Assessment* DOI 10.1007/s00477-009-0321-3.
7. A. van den Elzen and J.A.W.M. Kremers (2006), 'An adjustment process for non-convex production economies', *Journal of Mathematical Economics* 42, pp. 1-13.
8. C. Kemfert, J.A.W.M. Kremers, and T. Truong (2005), 'The effectivity of technological innovation on mitigating the costs of climate change policies', Mimeo, DIW Berlin.
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10. C. Kemfert, J.A.W.M. Kremers, and T. Truong (2004), 'A computable general equilibrium assessment of Clean Development Projects', *Proceedings of ECOMOD 2004*, Paris, published as C. Kemfert, H. Kremers, and T. Truong (2006), Valutazione dei progetti di Clean Development: un approccio CGE, in: B. Cavalletti and A. Fossati, *Temi di finanza pubblica. Analisi di politiche per lo sviluppo dell'economia*, Edizione FrancoAngeli.
11. J. Hawellek, C. Kemfert, and J.A.W.M. Kremers (2003), 'Uncertainties of the costs of the Kyoto Protocol – A meta-analysis', *Working Paper*, University of Oldenburg, Oldenburg, Germany (submitted for publication in *Environmental Sciences and Policy*).

12. C. Kemfert and J.A.W.M. Kremers (2003), 'A computable general equilibrium assessment of a developing country joining an Annex B emission permit market', *DIW Discussion Paper* 454, DIW Berlin, and *Working Paper* 881, University of Oldenburg (2009: accepted for publication in *Environment and Development Economics*).
13. J.A.W.M. Kremers (2002), 'A study of EU-USA integrated policies to face the consequences of social change on the sustainability of transport', in: William R. Black and Peter Nijkamp (eds.), *Social Change and Sustainable Transport*, IN: Indiana University Press.
14. J.A.W.M. Kremers, P. Nijkamp, and P. Rietveld (2002), 'The scope of meta-analysis for transport impact policy analysis in environmental economics', in: R. Florax, P. Nijkamp, and K. Willis (eds.), *Comparative Environmental Economic Assessment*, London, Edward Elgar, London.
15. J.A.W.M. Kremers, P. Nijkamp, and P. Rietveld (2002), 'A meta-analysis of price-elasticities of transport demand in a general equilibrium framework', *Economic Modelling* 19, pp. 463-485.
16. J.A.W.M. Kremers, P. Nijkamp, and S. Wang (2002), 'A comparison of Computable General Equilibrium models for analysing climate change policies', *Journal of Environmental Systems* 28(3), pp. 41-65.
17. J.A.W.M. Kremers, P. Nijkamp, and S. Wang (2000), 'Modelling issues on climate change policies. A discussion of the GTAP-E model', *Tinbergen Institute Discussion Paper*, TI 2000-099/3, Tinbergen Institute, Amsterdam, The Netherlands.
18. J.A.W.M. Kremers, P. Nijkamp, and P. Rietveld (1999), 'Spatial equilibrium analysis for comparing models on transport and the environment', *Rivista Geografica Italiana* 106, pp. 429-444.
19. J.A.W.M. Kremers (1998), 'The consequences of technological innovation on employment in the European Union using an AGE approach', in: Amadeo Fossati and John Hutton (eds.), *Policy Simulations in the European Union*, Routledge New International Studies in Economic Modelling, Routledge, London, pp. 193-211.
20. J.A.W.M. Kremers (1998), 'The computation of an equilibrium in general equilibrium theory and game theory', *Interuniversity Centre for Game Theory and Applications (CITG), Papers on Game Theory* Nr. 32, Genova, Italy.
21. J.A.W.M. Kremers and A.J.J. Talman (1994), 'A new algorithm for the linear complementarity problem allowing for an arbitrary starting point', *Mathematical Programming* 63, pp. 235 - 252.
22. G. van der Laan and H. Kremers (1993), 'On the existence and computation of an equilibrium in an economy with nonlinear constant returns to scale production', *Annals of Operations Research* 44, pp. 143-160.
23. H. Houba and J.A.W.M. Kremers (1991), 'Correction of the material balance equation in dynamic input-output models', *European Economic Review* 35, pp. 1103-1108.
24. J.A.W.M. Kremers (1991), *Pivoting Algorithms for Complementarity Problems in Economics*, Ph.D. thesis, Tilburg University, Tilburg, The Netherlands.

25. J.A.W.M. Kremers and A.J.J. Talman (1991), 'An SLSPP-algorithm to compute an equilibrium in an economy with linear production technologies', *Discussion Paper FEW 496*, Department of Econometrics, Tilburg University, Tilburg, The Netherlands.
26. J.A.W.M. Kremers and A.J.J. Talman (1990), 'Solving the nonlinear complementarity problem with lower and upper bounds', *Methods of Operations Research* 60, pp. 407-417.
27. J.A.W.M. Kremers and A.J.J. Talman (1990), 'Solving the nonlinear complementarity problem', *Methods of Operations Research* 62, pp. 91-103.