

**List of Publications**  
**Gustav Feichtinger**

\* Book or Journal Issue

**1967**

Über die Anzahl aller nichtisomorphen transitiven Automaten von Primzahlordnung. *Elektronische Informationsverarbeitung und Kybernetik* **3**, 275-282.

Beiträge zur Theorie abstrakter Automaten. *Elektronische Datenverarbeitung* **8**, 361-366.

Über isomorphe Unterautomaten in abstrakten Automaten. *Elektronische Datenverarbeitung* **9**, 411-415.

**1968**

Der Quotientenautomat nach einem direkten Faktor einer Automorphismengruppe. *Computing* **3**, 1-8.

Zur Theorie abstrakter stochastischer Automaten. *Zeitschrift für Wahrscheinlichkeitstheorie und verwandte Gebiete* **9**, 341-356.

Automatentheorie und dynamische Programmierung. *Elektronische Informationsverarbeitung und Kybernetik* **4**, 347-352.

Eine automatentheoretische Deutung des einelementigen Lernmodells der Stimulus Sampling Theorie. *Grundlagenstudien aus Kybernetik und Geisteswissenschaft* **9**, 3-19.

Ein automatentheoretischer Zugang zu Lernprozessen. *Kybernetik* **5**, 85-88.

Zur mathematischen Lerntheorie. *Grundlagenstudien aus Kybernetik und Geisteswissenschaft* **9**, 39-47.

**1969**

Stochastische Automaten als Grundlage linearer Lernmodelle. *Statistische Hefte* **10**, 5-21.

Optimale Darbietungen (Lernstrategien) zweier Items in der statistischen Lerntheorie. *Elektronische Informationsverarbeitung und Kybernetik* **5**, 109-125.

Ein Markoffsches Lernmodell für Zwei-Personen-Spiele. *Elektronische Datenverarbeitung* **7**, 322-325.

Anwendungen der Automatentheorie auf Lernprozesse. 2. Internationaler Kongreß *Datenverarbeitung im europäischen Raum*, 17-21.

Endliche stochastische Automaten als Modelle in den Verhaltenswissenschaften. *Seminarbericht 17 des Instituts für Theorie der Automaten und Schaltnetzwerke*, GMD Bonn.

**1970**

\* *Lernprozesse in stochastischen Automaten*. 'Lecture Notes in Operations Research and Mathematical Systems', Vol. **24**, Springer, Berlin.

Einige Resultate aus der Bevölkerungsmathematik. In: R. Henn (Ed.), '*Operations Research Verfahren VIII*'. Hain, Meisenheim, 89-106.

Über ein Entscheidungsproblem in der Erziehungsplanung. *Unternehmensforschung* **14**, 140-151.

Kybernetische Begriffe und Arbeitsweisen in der Lerntheorie. *Zeitschrift für experimentelle und angewandte Psychologie* **17**, 37-51.

Zur Erlernung optimalen Verhaltens in Entscheidungssituationen. *Statistische Hefte* **12**, 14-21.

BAYES-Automaten. *Elektronische Informationsverarbeitung und Kybernetik* **6**, 371-379.

Über Automatenmodelle in der statistischen Lerntheorie. *Kybernetik* **6**, 237-242.

Gekoppelte stochastische Automaten und sequentielle Zwei-Personen-Spiele. *Unternehmensforschung* **14**, 249-258.

Bemerkungen zum Thema Astrologie und Statistik. *Philosophia Naturalis* **12**, 104-115.

### **1971**

\* *Stochastische Modelle demographischer Prozesse*. 'Lecture Notes in Operations Research and Mathematical Systems', Vol. **44**, Springer, Berlin.

"Wahrscheinlichkeitslernen" in der statistischen Lerntheorie. *Metrika* **18**, 35-55.

Zur Erlernung optimalen Verhaltens in Entscheidungssituationen bei Ungewißheit. *Statistische Hefte* **12**, 14-21.

Stochastische Automaten mit stetigem Zeitparameter. *Angewandte Informatik* **4**, 156-164.

Über Lernprozesse mit variabler Transitionsstruktur in Entscheidungssituationen bei Ungewißheit. *Jahrbücher für Nationalökonomie und Statistik* **186**, 14-28.

Absorbing Markov chains in population mathematics. *Proceedings of the 38th Session of the International Statistical Institute*, Washington, D.C.

Markoff-Modelle zur sozialen Mobilität. *Jahrbuch für Sozialwissenschaft* **22**, 300-316.

Automatentheoretische Lernmodelle. *Umschau in Wissenschaft und Technik* **71**, 166.

Bevölkerungswissenschaft vor neuen Problemen. *Umschau in Wissenschaft und Technik* **71**, 596-597.

### **1972**

Über Sinn und Ziel der Kybernetik. In: J. Meurers (Hrsg.), '*Philosophia naturalis 13*'. Hain, Meisenheim, 185-190.

Über die Kovarianzen von Maximum Likelihood-Schätzungen gewisser Parameter bei multiplen Dekrementtafeln. *Mathematische Operationsforschung und Statistik* **3**, 217-226.

Über ein N-elementiges Modell der Reiz-Stichproben-Theorie mit stetigem Zeitparameter und zwei Antwortklassen. *Metrika* **18**, 94-109.

Stochastische Dekrementmodelle der Bevölkerungsstatistik. *Biometrische Zeitschrift* **14**, 106-125.

Zur Bayes-Analyse statistischer Entscheidungsprobleme. *Zeitschrift für Betriebswirtschaft* **7**, 42. Jg.

Neue Entwicklungen der formalen Demographie I. *Mitteilungsblatt der Österreichischen Gesellschaft für Statistik und Informatik* **5**, 23-29.

Neue Entwicklungen der formalen Demographie II. *Mitteilungsblatt der Österreichischen Gesellschaft für Statistik und Informatik* **6**, 53-64.

Stochastische Prozesse im Lichte ihrer Anwendungen. *Angewandte Informatik* **3**, 104-114.

### 1973

\* *Bevölkerungsstatistik*. de Gruyter, Berlin.

Markovian models for some demographic processes. *Statistische Hefte* **4**, 311-334.

Bemerkungen über lineare Modelle der Populationsdynamik. In: R. Henn (Ed.), 'Operations Research-Verfahren XV'. Hain, Meisenheim, 40-62 (with M. Deistler).

On the linear stochastic model in population dynamics. *Proceedings of the 39th Session of the International Statistical Institute* **4**, 301-306 (with M. Deistler).

### 1974

OR-Modelle sozio-demographischer Prozesse. In: P. Gessner et al., 'Proceedings in Operations Research 3'. Physica, Würzburg, 195-229.

Bemerkungen über stochastische Modelle der Straffälligkeit. *Allgemeines Statistisches Archiv* **58**, 198-221.

Einblicke in bevölkerungsmathematische Modelle und deren Anwendungsmöglichkeiten. *Jahrbuch für Sozialwissenschaft* **25**, 86-105.

Stochastische Modelle des Manpower Planning. *Antrittsvorlesung an der TH Wien*, Nr. **42**, TH Wien.

Von der Bevölkerungsstatistik zur demographischen Forschung. *Mitteilungsblatt der Österreichischen Gesellschaft für Statistik und Informatik* **13**, 15-36.

Nullwachstum der Bevölkerung frühestens in 100 Jahre. *Umschau in Wissenschaft und Technik* **74**, 551-552.

The linear model formulation of a multitype branching process applied to population dynamics. *Journal of the American Statistical Association* **69**, 662-664 (with M. Deistler).

Über ein Verzweigungsprozeßmodell zur Trägheit des Bevölkerungswachstums. Paper des Instituts für Ökonometrie und Operations Research, Universität Bonn (with M. Deistler).

### 1975

Bemerkungen über Wahrscheinlichkeitsmodelle für rekurrente demographische Prozesse. *Zeitschrift für Bevölkerungswissenschaft* **3/4**, 57-72.

Weltbevölkerungsjahr, -Konferenz und - Aktionsplan 1974. *Jahrbuch für Sozialwissenschaft* **26**, 123-137.

Die demographische Revolution. *Österreichische Gesellschaft für Familienplanung*, Jahrestagung in Igls.

Nullwachstum der Bevölkerung im linearen populationsdynamischen Modell. *Zeitschrift für Bevölkerungswissenschaft* **2**, 39-53 (with M. Deistler).

### **1976**

Are economically dependent groups likely to become a significant larger proportion of the population as a whole? In: 'Proceedings of the Colloque on the Changing Population Structures in Europe and Rising Social Costs'. Council of Europe, Strasbourg.

Some economic consequences of declining fertility in the Federal Republic of Germany. In: 'Les Methodes d'Analyse en Demographie Economique, Dossiers et recherches **1**'. Institut National d'Etudes Demographiques, Paris.

Stabile Populationsdynamik. In: R. Henn (Ed.), 'Operations Research Verfahren XXV'. Hain, Meisenheim, 434-442.

On the generalization of stable age distributions to Gani-type manpower models. *Advances in Applied Probability* **8**, 433-445.

The recruitment trajectory corresponding to particular stock sequences in Markovian person-flow models. *Mathematics of Operations Research* **1**, 175-184 (with A. Mehlmann).

### **1977**

\* Stationäre und schrumpfende Bevölkerungen. Demographisches Null- und Negativwachstum in Österreich. 'Lecture Notes in Economics and Mathematical Systems', Vol. **149**, Springer, Berlin (Ed.).

Ursachen und Konsequenzen des Geburtenrückganges. In: 'Soziale Probleme der modernen Industriegesellschaft'. Arbeitstagung des Vereins für Socialpolitik in Augsburg 1976. Duncker & Humblot, Berlin, 393-434.

Methodische Probleme der Familienlebenszyklus-Statistik. In: H. Albach, Helmstädter und R. Henn (Ed.), 'Quantitative Wirtschaftsforschung'. Wilhelm Krelle zum 60. Geburtstag, Mohr, Tübingen.

Bevölkerung. In: W. Albers et al. (Ed.), 'Handwörterbuch der Wirtschaftswissenschaft (HdWW)'. G. Fischer, Stuttgart, 610-631.

Bevölkerungsmodelle. *Allgemeines Statistisches Archiv* **4**, 325-348.

Aussichten für das Erwerbspotential und den Anteil wirtschaftlich abhängiger Personen in europäischen Bevölkerungen. *Schriftenreihe des Instituts für Demographie der Österreichischen Akademie der Wissenschaften* **2**.

The impact of mortality on the life cycle of the family in Austria. *Zeitschrift für Bevölkerungswissenschaft* **4**, 51-79 (with H. Hansluwka).

Bevölkerungsschrumpfung in Österreich. Konsequenzen rückläufiger Fruchtbarkeit für die demographische Entwicklung. *Schriftenreihe des Instituts für Demographie der Österreichischen Akademie der Wissenschaften* **3** (with J. Muzicant).

### 1978

Optimales Wachstum stabiler Bevölkerungen in einem neoklassischen Modell. *Zeitschrift für Bevölkerungswissenschaft* **1**, 63-73 (with M. Deistler, M. Luptacik and A. Wörgötter).

Analyse der Fertilitätsentwicklung in Österreich nach Heiratsjahrgängen. *Schriftenreihe des Instituts für Demographie der Österreichischen Akademie der Wissenschaften* **5** (with A. Haslinger).

Pseudostabile Bevölkerungen: Populationsdynamik bei gleichmäßig sinkender Fertilität. *Schriftenreihe des Instituts für Demographie der Österreichischen Akademie der Wissenschaften* **4** (with H. Vogelsang).

Zur demographischen Translation I. Beziehungen zwischen Perioden- und Kohortenmessung demographischer Prozesse. Forschungsbericht **12** des Instituts für Ökonometrie, OR und Systemtheorie, TU Wien (with H. Vogelsang).

Population Dynamics with Declining Fertility. I and II. Forschungsbericht **15** und **16** des Instituts für Ökonometrie, OR und Systemtheorie, TU Wien (with H. Vogelsang).

### 1979

\* *Demographische Analyse und populationsdynamische Modelle: Grundzüge der Bevölkerungsmathematik*. Springer, Wien.

Cohort trends in the timing of the family life cycle in Austria and West-Germany. In: J. Dupâquier et al. (Eds.), *'Historische Demographie'*. Paris.

Optimale intertemporale Allokationen mittels des Maximumprinzips. In: J. Schwarze et al. (Eds.), *'Proceedings in Operations Research* **9'**. Physica, Würzburg, 484-489.

Analyse des Familienzyklus auf demographischer Basis. In: *'Bericht über die Situation der Familie in Österreich'*. Familienbericht **1**, Bundeskanzleramt Wien.

Von sinkender zu steigender Fertilität: Bevölkerungsdynamik bei einer Trendumkehr der Fruchtbarkeit. *Zeitschrift für Bevölkerungswissenschaft* **3**, 327-340.

Zum Begriff "Schwung des Bevölkerungswachstums". *Jahrbücher für Nationalökonomie und Statistik* **194**, 399-400.

Exponentielle Niveau- und Musteränderung der Fertilität. Eine Analyse mittels stabiler Vergleichsbevölkerungen. *Zeitschrift für Bevölkerungswissenschaft* **1**, 31-63 (with H. Vogelsang).

### 1980

Optimale Politiken in kontrolltheoretischen Instandhaltungsmodellen. Forschungsbericht **25** des Instituts für Ökonometrie, OR und Systemtheorie, TU Wien.

### 1981

Optimale Allokation von Ausbildung und Berufsausübung in einem nichtlinearen Kontrollmodell. *Zeitschrift für Operations Research* **25**, 25-34.

Optimierung von Instandhaltungsinvestitionen, Produktionsintensität und Nutzungsdauer maschineller Produktionsanlagen: Anwendungen der Kontrolltheorie in der Instandhaltungs- und Produktionsplanung. In: K. Brockhoff und W. Krelle (Eds.), '*Unternehmensplanung*'. Springer, Berlin, 213-234.

A noncooperative solution of a simple pollution differential game. Forschungsbericht **34** des Instituts für Ökonometrie, OR und Systemtheorie, TU Wien.

Nash-Lösungen zustandsseparabler Nichtnullsummen Differentialspiele. Forschungsbericht **41** des Instituts für Ökonometrie, OR und Systemtheorie, TU Wien.

Ein nichtlineares Kontrollproblem der Instandhaltung. *OR-Spektrum* **3**, 49-58 (with R.F. Hartl).

## **1982**

\* *Optimal Control Theory and Economic Analysis*. First Viennese Workshop on Economic Applications of Control Theory, Vienna, October 28 - 30, 1981, North-Holland, Amsterdam (Ed.).

Saddle-point analysis in a price-advertising model. *Journal of Economic Dynamics and Control* **4**, 319-340.

Optimal repair policy for a machine service problem. *Optimal Control Applications and Methods* **3**, 15-22.

Optimal pricing in a diffusion model with nonlinear price-dependent market potential. *Operations Research Letters* **1**, 236-240.

Anwendungen des Maximumprinzips im Operations Research. Teil 1 und 2. *OR-Spektrum* **4**, 171-190, 195-212.

The Nash solution of a maintenance-production differential game. *European Journal of Operational Research* **10**, 165-172.

Optimal research policies in a noncooperative project undertaken by two firms. In: G. Feichtinger (Hrsg.), '*Optimal Control Theory and Economic Analysis*'. North-Holland, Amsterdam, 373-397.

Optimal bimodal harvest policies in age-specific bioeconomic models. In: G. Feichtinger und P. Kall (Eds.), '*Operations Research in Progress*'. Reidel, Dordrecht, 285-299.

Ein Differentialspiel für den Markteintritt einer Firma. In: B. Fleischmann et al. (Eds.), '*Operations Research Proceedings 1981*'. Springer, Berlin, 636-644.

\* *Operations Research in Progress*. Reidel, Dordrecht (with P. Kall, Eds.).

## **1983**

Optimale dynamische Preispolitik bei drohender Konkurrenz. *Zeitschrift für Betriebswirtschaft* **53**, 155-177.

The Nash solution of an advertising differential game: Generalization of a model by Leitmann and Schmitendorf. *IEEE Transactions on Automatic Control* **AC-28**, 1044-1048.

A differential games solution to a model of competition between a thief and the police. *Management Science* **29**, 686-699.

Pseudostabile Bevölkerungen. In: S. Rupp und K. Schwarz (Eds.), *Beiträge aus der bevölkerungswissenschaftlichen Forschung*. Festschrift für Hermann Schubnell, Schriftenreihe des Bundesinstituts für Bevölkerungsforschung **11**, 535-544.

Differential game models in management science. *European Journal of Operational Research* **14**, 137-155 (with S. Jorgensen).

Eine Fruchtbarkeitstafel auf Paritätsbasis. *Zeitschrift für Bevölkerungswissenschaft* **3**, 363-376 (with W. Lutz).

### **1984**

Optimal employment strategies of profit-maximizing and labour-managed firms. *Optimal Control Applications and Methods* **5**, 235-253.

On the synergistic influence of two control variables on the state of nonlinear optimal control models. *Journal of Operational Research Society* **35**, 907-914.

On optimal control models for the dynamics of the firm. In: R. Henn (Eds.), '*Methods of Operations Research 51*'. Hain, Athenäum.

A note to Jorgensen's logarithmic advertising differential game. *Zeitschrift für Operations Research* **28**, B 133-B 153 (with E.J. Dockner).

Strategic Advertising and Price Management under Dynamic Conditions. Forschungsbericht **76** des Instituts für Ökonometrie, OR und Systemtheorie, TU Wien (with E.J. Dockner).

Hiring/Firing vs Overtime/Short-Time Working in a Dynamic Firm. Forschungsbericht **72** des Instituts für Ökonometrie, OR und Systemtheorie, TU Wien (with R.F. Hartl and M. Luptacik).

Alterstruktureffekt bei der Schätzung schließlicher Paritätsverteilungen. In: C. Höhn et al. (Eds.), '*Demographie in der Bundesrepublik Deutschland*'. Festschrift für Karl Schwarz. Boppard, H. Boldt (with W. Lutz).

Lagerhaltungs- und Beschäftigungsstrategien einer Firma. *OR-Spektrum* **6**, 93-107 (with A. Steindl).

### **1985**

\* *Optimal Control Theory and Economic Analysis 2*. Second Viennese Workshop on Economic Applications of Control Theory, Vienna, May 16 - 18, 1984, North-Holland, Amsterdam (Ed.).

Optimal modification of machine reliability by maintenance and production. *OR-Spektrum* **7**, 43-50.

Optimal pricing in a duopoly: a noncooperative differential games solution. *Journal of Optimization Theory and Applications* **45**, 199-218 (with E.J. Dockner).

Optimal pricing and production in an inventory model. *European Journal of Operational Research* **19**, 45-56 (with R.F. Hartl).

On the use of Hamiltonian and maximized Hamiltonian in non-differentiable control theory. *Journal of Optimization Theory and Applications* **46**, 493-504 (with R.F. Hartl).

Tractable classes of nonzero-sum open-loop Nash differential games: theory and examples. *Journal of Optimization Theory and Applications* **45**, 179-197 (with E.J. Dockner and S. Jorgensen).

Ein dynamisches Mischungsproblem. Forschungsbericht **79** des Instituts für Ökonometrie, OR und Systemtheorie, TU Wien (with G. Sorger).

## **1986**

Production-pollution cycles. Forschungsbericht **95** des Instituts für Ökonometrie, OR und Systemtheorie, TU Wien.

Periodic optimal control: can oscillations be optimal in autonomous economic control models? In: W. Domschke et al. (Eds.), '*Methods of Operations Research* **57**'. Athenäum, Königstein, 349-366.

Dynamic advertising and pricing in an oligopoly: a Nash equilibrium approach. *Journal of Economic Dynamics and Control* **10**, 37-39 (with E.J. Dockner).

On the Value of Information in Dynamic Games of R & D. Forschungsbericht **85** des Instituts für Ökonometrie, OR und Systemtheorie, TU Wien (with E.J. Dockner and A. Mehlmann).

\* *Optimale Kontrolle ökonomischer Prozesse: Anwendungen des Maximumprinzips in den Wirtschaftswissenschaften*. de Gruyter, Berlin (with R.F. Hartl).

The dynamic Averch-Johnson effect revisited. Forschungsbericht **83** des Instituts für Ökonometrie, OR und Systemtheorie, TU Wien (with R.F. Hartl and M. Luptacik).

On the optimality of cyclical employment policies: a numerical investigation. *Journal of Economic Dynamics and Control* **10**, 457-466 (with R.F. Hartl, G. Sorger and A. Steindl).

Planning the unusual: applications of control theory to nonstandard problems. *Acta Applicandae Mathematicae* **7**, 79-102 (with A. Mehlmann).

On the exploitation of curious resources. In: M.J. Beckmann et al. (Eds.), '*Methods in Operations Research* **54**'. Hain, Athenäum, 127-145 (with A. Mehlmann).

Optimal oscillations in control models: how can constant demand lead to cyclical production? *Operations Research Letters* **5**, 277-281 (with G. Sorger).

Optimale Dauer und Verteilung von Arbeitspausen. Forschungsbericht **97** des Instituts für Ökonometrie, OR und Systemtheorie, TU Wien (with G. Sorger and A. Novak).

## **1987**

Limit cycles in economic control models. In: R. Bulirsch et al. (Eds.), '*Optimal Control*'. Proceedings of the Conference on Optimal Control and Variational Calculus Oberwolfach, West-Germany, June 15-21, 1986. Springer, Berlin, 46-55.

Intertemporal optimization of wine consumption at a party: an unusual optimal control model. In: G. Gandolfo and F. Marzano (Eds.), '*Keynesian Theory Planning Models and Quantitative Economics*'. Essays in Memory of Vittorio Marrama, Vol. **II**. Giuffrè, Milano, 777-797.

Zur Anwendung der Kontrolltheorie auf die Optimierung ökonomischer Prozesse. In: Th. Fischer (Ed.), 'Betriebswirtschaftliche Systemforschung und ökonomische Kybernetik'. Duncker & Humblot, Berlin, 271-289.

The statistical measurement of the family life cycle: table methods for analyzing the tempo and structure of the family life cycle. In: J. Bongaarts (Hrsg.), 'Family Demography: Methods and Their Applications'. Clarendon Press, Oxford, 81-101.

A new sufficient condition for most rapid approach paths. *Journal of Optimization Theory and Applications* **54**, 403-411 (with R.F. Hartl).

Optimal production and abatement policies of a firm. *European Journal of Operational Research* **29**, 274-285 (with M. Luptacik).

Optimal employment and wage policies of a monopolistic firm. *Journal of Optimization Theory and Applications* **53**, 59-83 (with M. Luptacik).

Intertemporal sharecropping: a differential game approach. In: G. Bamberg and K. Spremann (Eds.), 'Agency Theory, Information and Incentives'. Springer, Berlin, 415-438 (with G. Sorger).

### 1988

\* *Optimal Control Theory and Economic Analysis* **3**. Third Viennese Workshop on Optimal Control Theory and Economic Analysis, Vienna, May 20 - 22, 1987, North-Holland, Amsterdam (Ed.).

Optimal persistent oscillations and adjustment costs. In: P. Flaschel and M. Krüger (Eds.), 'Recent Approaches to Economic Dynamics'. P. Lang, Frankfurt, 119-131.

Ein dynamisches Modell des Intensitätssplittings. *Zeitschrift für Betriebswirtschaft* **11**, 1242-1258 (with K.-P. Kistner and A. Luhmer).

Optimal price and advertising policy in convenience goods retailing. *Marketing Science* **7**, 187-201 (with A. Luhmer and G. Sorger).

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### 1989

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Noncooperative solutions for a differential game model of fishery. *Journal of Economic Dynamics and Control* **13**, 1-20 (with E.J. Dockner and A. Mehlmann).

Self-generated fertility waves in a non-linear continuous overlapping generations model. *Journal of Population Economics* **2**, 267-280 (with G. Sorger).

### **1990**

Optimal periodic policies in dynamic economic systems. *National Contribution of Austria. IFORS 1990*, Athen. In: H.E. Bradley (Ed.), 'Operational Research '90'. Pergamon Press, Oxford, 771-782.

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Oligopolistisches Preismanagement bei Lerneffekten und Überkapazitäten. *Zeitschrift für Betriebswirtschaft* **1**, 7-19 (with E.J. Dockner).

Interaction of price and advertising under dynamic conditions. In: K.-P. Kistner et al. (Eds.), 'Operations Research Proceedings 1989'. Springer, Berlin, 547-554 (with E.J. Dockner and G. Sorger).

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### **1991**

On the optimality of limit cycles in dynamic economic systems. *Journal of Economics* **53**, 31-50 (with E.J. Dockner).

\* *Methods of Operations Research: OR 1990, International Conference on Operations Research 1990 in Vienna*. Anton Hain, Frankfurt (with R.F. Hartl, W. Janko, W.E. Katzenberger and A. Stepan, Eds.).

Cyclical production and marketing decisions: application of Hopf bifurcation theory. *International Journal of Systems Science* **22**, 1035-1046 (with E.J. Dockner and A. Novak).

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A note on the optimal use of environmental resources by an indebted country. *Journal of Institutional and Theoretical Economics* **147**, 547-555 (with A. Novak).

Politico-economic cycles of regulation and deregulation. *European Journal of Political Economy* **7**, 469-485 (with F. Wirl).

### **1992**

\* *Dynamic Economic Models and Optimal Control*. North-Holland, Amsterdam (Ed.).

Hopf bifurcation in an advertising diffusion model. *Journal of Economic Behavior & Organisation* **17**, 401-411.

Rational addictive cycles ('binges') under a budget constraint. *Optimal Control Applications and Methods* **13**, 95-104.

Optimal control of economic systems. In: S. Tzafestas (Ed.), 'Automatic Control Handbook'. M. Dekker, New York, 1023-1044.

- Limit cycles in dynamic economic systems. In: G. Feichtinger and R.F. Hartl (Eds.), '*Nonlinear Methods in Economic Dynamics and Optimal Control*'. Annals of Operations Research **37**. Baltzer, Basel, 313-344.
- Nonlinear threshold dynamics: Further examples for chaos in social sciences. In: G. Haag, U. Mueller and K.G. Troitzsch (Eds.), '*Economic Evolution and Demographic Change, Formal Models in Social Sciences: Formal Models in Social Sciences*'. Lecture Notes in Economics and Mathematical Systems **395**. Springer, Berlin, 141-154.
- A nonlinear dynamical model on the arms race. Forschungsbericht **145** des Instituts für Ökonometrie, OR und Systemtheorie, TU Wien (with D. Behrens).
- \* *Operations Research Proceedings: Papers of the International Conference on Operations Research 1990*. Springer, Berlin (with W. Bühler, R.F. Hartl, F.J. Radermacher and P. Stähly).
- Does society gain from the actions of environmentalists? Forschungsbericht **143** des Instituts für Ökonometrie, OR und Systemtheorie, TU Wien (with E.J. Dockner).
- \* *Nonlinear Methods in Economic Dynamics and Optimal Control*. Annals of Operations Research **37**, Baltzer, Basel (with R.F. Hartl, Eds.).
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- A note on the optimal exploitation of migratory fish stocks. *Dynamics and Control* **2**, 255-263 (with A. Novak).
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