

Lfd.	Titel	Jahr
1.	E. P. Hofer and B. Tibken; An Iterative Method for the Finite-Time Bilinear-Quadratic Control Problem, Journal of Optimization Theory and Applications, JOTA, Vol. 57, pp. 411-427, 1988. ( <b>CD Nr. 1</b> )	1988
2.	E.P. Hofer and B. Tibken; A Computer Implementation for Optimal Control of Nonlinear Systems, Waseda University (Ed.), Science and Engineering Research Laboratory, Tokyo, Japan, Report, No. 89-1, 1989. - Forschungsbericht ( <b>CD Nr. 5</b> )	1989
3.	B. Tibken and E. P. Hofer; Systematic Observer Design for Bilinear Systems, Proc. IEEE intl. Symposium on Circuits and Systems, Portland, Oregon, USA, Vol. 3, pp. 1611 .1616, 1989. ( <b>CD Nr. 3</b> )	1989
4.	B. Tibken and E.P. Hofer; A Novel Computer Approach to Optimal Feedback Control of Bilinear Systems, in: A. Isidori (Ed.), Selected Papers IFAC Symposium Nonlinear Control Systems Design, Capri, Italy, Pergamon Press, Oxford, pp. 327 .331, 1989. ( <b>CD Nr. 4</b> )	1989
5.	E.P. Hofer and B. Tibken; An Approximation to Optimal Feedback Control of Bilinear Distributed Parameter Processes, in: K. Hirai, E. Shimemura (Eds.), Proc. 4th Japanese-German Seminar on Nonlinear Problems in Dynamical Systems Theory and Applications, Kobe, Japan, pp. 43 .52, 1989. ( <b>CD Nr. 6</b> )	1989
6.	B. Tibken; Rechnergestützter Beobachterentwurf für Bilineare Systeme, Dissertation, Technische Universität Hamburg-Harburg, 1991. ( <b>CD Nr. 10</b> )	1991
7.	E.P. Hofer, B. Tibken and T.M. Fliedner; Modern Control Theory as a Tool to Describe the Biomathematical Model of Granulocytopoiesis, Proc. 4. Ebernburger Gespräch, Bad Münster, 1990, in: D.P.H. Möller, O. Richter (Hrsg.), Analyse dynamischer Systeme in Medizin, Biologie und Ökologie, Informatik-Fachberichte, Vol. 275, Springer-Verlag, Berlin, pp. 33 - 39, 1991. ( <b>CD Nr. 7</b> )	1991
8.	E.P. Hofer, Y. Fan and B. Tibken; Extraction of Rules for Model Based Estimation of Granulocytopoiesis, in: M. Frikl (Ed.), Proc. 5th German-Japanese Seminar on Nonlinear Problems in Dynamical Systems - Theory and Applications -, Daun, Vulkaneifel, Universität Duisburg, Fachbereich Maschinenbau, pp. 58 - 68, 1991. ( <b>CD Nr. 8</b> )	1991
9.	T.M. Fliedner, R. Kodym, B. Tibken, E.P. Hofer, W. Hunstein and M. Körbling; Pathophysiology of Granulocyte Recovery in Patients after Total Body Irradiation with and without Autologous Stem Cell Transfusion, J. Experimental Hematology, Vol. 19, No. 6, p. 489, 1991. ( <b>CD Nr. 9</b> )	1991
10.	E.P. Hofer, B. Tibken und Y. Fan; Extraktion von Regeln für die Modellierung und Simulation der Granulozytopoese, Tagungsband 3. Forschungsgespräch Prä- und intraoperative Bildverarbeitung und Operationssimulation und computergestütztes Operieren, Schloss Reisenburg, Günzburg, 1991, in: Gesellschaft für Biomedizinische Technologien in Ulm e.V. (Hrsg.), Ulm, Bd. 3, 5. 34 - 39, 1992. ( <b>CD Nr. 14</b> )	1992
11.	K. Ruhland, E.P. Hofer and B. Tibken; Exact Linearization for Bilinear Control Processes, Proc. 3rd intl. Conference Advances in Communication and Control Systems COMCON 3, Victoria, B.C., Canada, pp. 273 .284, 1992. ( <b>CD Nr. 13</b> )	1992
12.	T.M. Fliedner, M. Weiss, E.P. Hofer, B. Tibken und Y. Fan; Blutzellveränderungen nach Strahleneinwirkung als Indikatoren für die ärztliche Versorgung von Strahlenunfallpatienten, 9. Gemeinsame Österreichische-Deutsche Strahlenschutztagung, Biologische Dosimetrie - 6 Jahre nach Tschernobyl, Wien, Österreich, 1992, in: F. Holeczke, Chr. Reiners, O. Messerschmidt (Hrsg.), Strahlenexposition bei neuen diagnostischen Verfahren, Strahlenschutz in Forschung und Praxis, Band 34, Gustav Fischer Verlag, Stuttgart, S. 137 - 154, 1993. ( <b>CD Nr. 18</b> )	1993
13.	B. Tibken and E. P. Hofer; A New Simulation Tool for Uncertain Discrete Time Systems, Proc. 2nd European Control Conference ECC '93, Groningen, The Netherlands, pp. 814 .817, 1993. ( <b>CD Nr. 17</b> )	1993
14.	E.P. Hofer and B. Tibken; Simulation of Uncertain Discrete Time Systems with an Application to a Nonlinear Biomathematical Model, Proc. Modeling Techniques for Uncertain Systems, Sopron, Hungary, 1992, in: A.B. Kurzhanski, V.M. Veliov (Eds.), Progress in Systems and Control Theory, Vol. 18, Birkhäuser, Boston, USA, pp. 111 .121, 1994. ( <b>CD Nr. 30</b> )	1994
15.	E.P. Hofer and B. Tibken; A Clinical Decision Support System for the Treatment of Irradiated Persons Based on a Biomathematical Model of Granulocytopoiesis, Proc. 12th Triennial World Congress, intl. Federation of Automatic Control IFAC, Sydney, Australia, 1993, in: G.C. Goodwin, R.J. Evans (Eds.), Automatic Control, Pergamon Press, Elsevier Science Ltd., Oxford, UK, Vol. 3, pp. 303 .306, 1994. ( <b>CD Nr. 28</b> )	1994
16.	B. Tibken and C. Posten; Application of Algebraic Methods to the Calculations of Steady States in Continuous Cultures, Proc. 12th Triennial World Congress, intl. Federation of Automatic Control IFAC, Sydney, Australia, 1993, in: G.C. Goodwin, R. J. Evans (Eds.), Automatic Control, Pergamon Press, Elsevier Science Ltd., Oxford, UK, Vol. 3, pp. 241 - 244, 1994. (fehlt auf CD)	1994

Lfd.	Titel	Jahr
17.	E.P. Hofer, B. Tibken and S. Hofmann; Nonlinear Biomathematical Models with State-Dependent Delays, Proc. 3rd IEEE Conference on Control Applications, Glasgow, Scotland, FM-6-3, 1994. ( <b>CD Nr. 31</b> )	1994
18.	B. Tibken and S. Hofmann; Simulation and Applications of Systems with State-Dependent Time Delays, in: E. Shimeamura (Ed.), Proc. 6 <sup>th</sup> German-Japanese Seminar Nonlinear Problems in Dynamical Systems -Theory and Applications Tateshina, Japan, pp. 191-202, 1994. ( <b>CD Nr. 32</b> )	1994
19.	C. Posten and B. Tibken; Improved Modelling of Continuous Cultivation by Computer Algebra Systems, Proc. 1 <sup>st</sup> Asian Control Conference ASCC, Tokyo, Japan, Vol. 2, pp. 849 .852, 1994. ( <b>CD Nr. 33</b> )	1994
20.	E.P. Hofer, B. Tibken and T.M. Fliedner; Modeling of the Chronically Irradiated Hemopoietic System, Proc. 1 <sup>st</sup> Asian Control Conference ASCC, Tokyo, Japan, Vol. 2, pp. 173 .175, 1994. ( <b>CD Nr. 26</b> )	1994
21.	B. Tibken and E.P. Hofer, Interval Analysis as a Tool for Sensitivity Analysis of a Hemopoietic Model, Proc. 1 <sup>st</sup> Asian Control Conference ASC, Tokyo, Japan, Vol. 2, pp. 189-191, 1994. ( <b>CD Nr. 29</b> )	1994
22.	T.M. Fliedner, W. Nothdurft, B. Tibken, E.P. Hofer, M. Weiss and H. Kindler; Hemopoietic Cell Renewal in Radiation Fields, J. Advances in Space Research, Vol. 14, No. 10, pp. 541 .554, 1994. ( <b>CD Nr. 25</b> )	1994
23.	S. Brücher, B. Tibken und E.P. Hofer; Biomathematisches Modell der Lymphozytopoiese, Tagungsband Workshop Modellierung biologischer Prozesse - das Immunsystem. Bonn, 1994, in: R. Hofestädt, M. Löffler, K. Möller (Hrsg.), Institut für Informatik, Universität Bonn, Nr. 99, S. 50, 1995. ( <b>CD Nr. 48</b> )	1995
24.	B. Tibken and E.P. Hofer; Simulation of Controlled Uncertain Nonlinear Systems, J. Applied Mathematics and Computation, Vol. 70, pp. 329 .338, 1995. ( <b>CD Nr. 53</b> )	1995
25.	C. Posten and B. Tibken; Application of Algebraic Methods to the Calculation of Steady States in Continuous Culture, J. Control Engineering Practice, Vol. 3, No. 7, pp. 985 .991, 1995. ( <b>CD Nr. 55</b> )	1995
26.	B. Tibken and E.P. Hofer; A Biomathematical Model of Granulocytopoiesis for Estimation of Stem Cell Numbers, J. Stem Cells, Vol. 13 (Suppl. 1), pp. 283 .289, 1995. ( <b>CD Nr. 52</b> )	1995
27.	E.P. Hofer, S. Brücher, K. Mehr and B. Tibken; An Approach to a Biomathematical Model of Lymphocytopoiesis, J. Stem Cells Vol. 13 (Suppl. 1), pp. 290 .300, 1995. ( <b>CD Nr. 47</b> )	1995
28.	S. Brücher, E.P. Hofer and B. Tibken; Cell Damage and Nonlinear Feedback Control for a Biomathematical Model of Lymphopoiesis, Proc. 5 <sup>th</sup> Intl. Conference Advances in Communication and Control COMCON 5, Rithymna, Crete, Greece, pp. 841 .852, 1995. ( <b>CD Nr. 49</b> )	1995
29.	T.M. Fliedner, P.-R. Wistermann, S. Brücher, K. Mehr, B. Tibken and E.P. Hofer; Structure and Function of the Immune System Under the Influence of Ionizing Radiation: New Approaches of Biomathematical Modeling, Proc. of the 10th. Intl. Congress of Radiation Research, Würzburg, 1995, in: U. Hagen, D. Harder, H. Jung, C. Streffler (Eds.), Radiation Research 1895 .1995, Universitätsdruckerei H. Stürtz AG, Würzburg, Vol. 2, pp. 700 .704, 1995. ( <b>CD Nr. 51</b> )	1995
30.	S. Brücher, B. Tibken and E.P. Hofer; Nonlinear Feedback Control for a Dynamical Biomathematical Model of Lymphopoiesis, Tagungsband 2nd Interdisciplinary Workshop Immune System: Modelling, Simulation, and Experiment, Leipzig, 1995, Naturwissenschaftlich-Theoretisches Zentrum (Hrsg.), Universität Leipzig, pp. 5 .11, 1995. ( <b>CD Nr. 50</b> )	1995
31.	B. Tibken, E.P. Hofer and C. Demir, Guaranteed Regions of Attraction for Dynamical Polynomial Systems, proc. of the 8 <sup>th</sup> Workshop on Dynamics and Control, pp. 1-9, Sopron, Hungary, 1995. ( <b>CD Nr. 54</b> )	1995
32.	B. Tibken and E.P. Hofer; Constrained Optimization Algorithms and Automatic Differentiation for Parameter Estimation with Applications to Granulocytic Models, Proc. 17th intl. Federation for Information Processing Conference IFIP, Prague, Czech Republic, 1995, in: J. Dolezal, J. Fidler (Eds.), System Modelling and Optimization, Chapman & Hall, London, pp. 115 .119, 1996. ( <b>CD Nr. 70</b> )	1996
33.	B. Tibken; Neue Simulationstechniken für unsichere Systeme, Mitteilungen ASIM - Arbeitskreise Simulation Technischer Systeme, Simulationsssoft- und Hardware, Heft Nr. 52, S. 34, 1996. ( <b>CD Nr. 80</b> )	1996
34.	B. Tibken, E.P. Hofer; Interval Analysis as a Tool for Sensitivity Analysis of a Hemopoietic Model. In: J. Applied Mathematics and Computation 78, pp. 259-267, 1996. ( <b>CD Nr. 71</b> )	1996
35.	B. Tibken, E.P. Hofer and A. Sigmund; The Ellipsoid Method for Systematic Bilinear Observer Design, Preprints of the 13th IFAC World Congress intl. Federation of Automatic Control, San Francisco, California, USA, 1996, in: J.J. Gertler, J.B. Cruz Jr., M. Peshkin (Eds.), Automatic Control, Vol. F, pp. 377 .382, 1996. ( <b>CD Nr. 77</b> )	1996

Lfd.	Titel	Jahr
36.	B. Tibken and E.P. Hofer; Improved Robustness Bounds for Nonlinearly Perturbed Linear Systems, Proc. 7th German-Japanese Seminar Nonlinear Problems in Dynamical Systems - Theory and Applications, Schloss Reisenburg, Günzburg, pp. 15 - 22, 1996.	1996
37.	T.M. Fliedner, B. Tibken, E.P. Hofer and W. Paul; Stem Cell Responses after Radiation Exposure: A Key to the Evaluation and Prediction of Effects, J. Health Physics, Vol. 70, No. 6, pp. 787 - 797, 1996. ( <b>CD Nr. 76</b> )	1996
38.	F. Lehn, B. Tibken and E.P. Hofer; Development of a Simulation Environment for Time Delay Differential Equations, Preprint Schwerpunktprogramm der Deutschen Forschungsgemeinschaft DFG, Echtzeitoptimierung großer Systeme, <a href="http://elib.zib.de:888/echtzeit/publikationen">http://elib.zib.de:888/echtzeit/publikationen</a> Nr. 98-29, 1998.	1998
39.	F. Lehn, B. Tibken and E.P. Hofer; A New Time Delay Model of Human Granulopoiesis, Preprint Schwerpunktprogramm der Deutschen Forschungsgemeinschaft DFG, Echtzeitoptimierung großer Systeme, <a href="http://elib.zib.de:888/echtzeit/publikationen">http://elib.zib.de:888/echtzeit/publikationen</a> Nr. 98-27, pp. 1 - 7, 1998.	1998
40.	F. Lehn, B. Tibken and E.P. Hofer; Development of a Decision Support System for the Treatment of Irradiated Persons - Modeling the Human Granulopoiesis, Preprint Schwerpunktprogramm der Deutschen Forschungsgemeinschaft DFG, Echtzeitoptimierung großer Systeme, <a href="http://elib.zib.de:888/echtzeit/publikationen">http://elib.zib.de:888/echtzeit/publikationen</a> Nr. 98-30, pp. 1 - 16, 1998.	1998
41.	C. Tarin, H. Brugger, B. Tibken und E.P. Hofer; Global asymptotisch stabile Positionsregelung für einen autonomen mobilen Roboter, Tagungsband 14. Fachgespräch Autonome Mobile Systeme, Karlsruhe, 1998, in: H. Wörn, R. Dillmann, D. Henrich (Hrsg.), Springer-Verlag, 1998.	1998
42.	E.P. Hofer, B. Tibken and C. Rembe; Guaranteed Parameter Estimation for Characterization of Microdevices, Proc. 10th Workshop on Dynamics and Control, Lambrecht, Germany, 1998, in: E. Reithmeier, G. Leitmann (Eds.), Complex Dynamical Systems with Incomplete Information, Shaker Verlag, Aachen, pp. 81 - 93, 1999.	1999
43.	B. Tibken; Oberserver Design for Nonlinear Systems using Convex Optimization Techniques, Proceedings of the 8th Japanese-German Seminar on Nonlinear Problems in Dynamical Systems - Theory and Applications, 1999.	1999
44.	E.P. Hofer, B. Tibken, K. Mehr und S. Brücher; Assistance and Decision Support for Radiation Syndrome Treatment via Internet, Proc. intl. Conference Diagnosis and Treatment of Radiation Injury, de Doelen Rotterdam, Netherlands, 1998, in: G. Wagemaker, A. Karaoglu, P. Gourmelon, I. Weiss (Eds.), Diagnosis and Treatment of Radiation Injury, EUR 18553, World Scientific, 1999.	1999
45.	B. Tibken, E.P. Hofer and W. Seibold; Quality Control of Valve Push Rods Using Interval Arithmetic, Proc. 14th Triennial World Congress intl. Federation o fAutomatic Control IFAC, Beijing, P. R. China, Vol. A, pp. 409 - 412, 1999.	1999
46.	B. Tibken, A. Bulach, J. Heeks und E.P. Hofer; Neue Intervallarithmetische Methoden zur Garantierten Parameterschätzung, Statusseminar Nichtlineare Dynamik, Frankfurt, 1999, in: VDI-Technologiezentrum Physikalische Technologien Düsseldorf (Hrsg.), Technische Anwendungen von Erkenntnissen der Nichtlinearen Dynamik, 5. 83-87, 1999.	1999
47.	J. Heeks, A. Bulach, B. Tibken und E.P. Hofer; Garantierte Parameterschätzung für ein Mikrorelais, Statusseminar Nichtlineare Dynamik, Frankfurt, 1999, in: VDI-Technologiezentrum Physikalische Technologien Düsseldorf (Hrsg.), Technische Anwendungen von Erkenntnissen der Nichtlinearen Dynamik, S. 335 - 338, 1999.	1999
48.	B. Tibken, E.P. Hofer and C. Demir; Guaranteed Regions of Attraction for Dynamical Polynomial Systems, Proc. 5th Workshop Dynamics and Control, Sopron, Hungary, 1995, in: G. Leitmann, F.E. Udwadia, A.V. Kryazhimskii (Eds.), Dynamics and Control, Series Stability and Control: Theory, Methods and Applications, Vol. 9, Gordon and Breach Science Publishers, Amsterdam, pp. 119 - 128, 1999.	1999
49.	B. Tibken, F. Lehn und E.P. Hofer; Quadratic Control Lyapunov Functions for Bilinear Systems, Eprint X-Archive University of California at Davis, <a href="http://front.math.ucdavis.edu">http://front.math.ucdavis.edu</a> , math.oc/9906145, pp. 1-9, 1999, Proc. 7th mtl. Conference on Advances in Communication and Control COMCON 7, Athens, Greece, 1999.	1999
50.	P.C. Vincent, L. Rutzen-Loesevitz, B. Tibken, B. Heinze, E.P. Hofer and T.M. Fliedner; Relapse in Chronic Myeloid Leukemia after Bone Marrow Transplantation: Biomathematical Modeling as a New Approach to Understanding Pathogenesis, J. Stem Cells, Vol. 17, pp. 9 - 17, 1999.	1999
51.	B. Tibken, E.P. Hofer und T.M. Fliedner; Ein Biomathematisches Modell für die Chronische Myeloische Leukämie, Festschrift Professor Düchting, Institut für Regelungs- und Steuerungstechnik, Universität GH Siegen, 1999.	1999

Lfd.	Titel	Jahr
52.	F. Lehn, B. Tibken and E.P. Hofer; Diagnosis and Therapy of the Acute Radiation Syndrome, Preprint Schwerpunktprogramm der Deutschen Forschungsgemeinschaft DFG, Echtzeitoptimierung großer Systeme, <a href="http://elib.zib.de:888/echtzeit/publikationen">http://elib.zib.de:888/echtzeit/publikationen</a> Nr. 99-11, pp. 1 -12, 1999.	1999
53.	F. Lehn, B. Tibken and E.P. Hofer; Human Granulopoiesis - A New Time Delay Model, Proc. Of the 5th European Control Conference ECC '99, Karlsruhe, Germany, CP-15, pp. 1-5, 1999.	1999
54.	C. Tarin, H. Brugger, B. Tibken and E.P. Hofer; Nonlinear Control for an Autonomous Mobile Robot, Proc. 2n Seminari de Treball en Automatica, Robotica i Percepcio STAR '99, Barcelona, Spain, pp. 21-28, 1999.	1999
55.	C. Tarin, H. Brugger, B. Tibken and E.P. Hofer; Motion Control Module for an Autonomous Mobile Robot, Proc. 7th IEEE intl. Conference on Emerging Technologies and Factory Automation EFTA '99, Barcelona, Spain, Vol. 1, pp. 505 -511, 1999.	1999
56.	C. Tarin, H. Brugger, B. Tibken and E.P. Hofer; Globally Asymptotically Stable Position Control for an Autonomous Mobile Robot, Proc. of the 5th European Control Conference ECC '99, Karlsruhe, Germany, BM-4, pp. 1-4, 1999.	1999
57.	H. Brugger, C. Tarin, B. Tibken and E.P. Hofer; Path Controller Implementation for an Autonomous Mobile Robot, Proc.of the 5th European Control Conference ECC '99, Karlsruhe, Germany, AP- 11, pp. 1 -4, 1999.	1999
58.	C. Tarin, H. Brugger, B. Tibken and E.P. Hofer; Optimal Control for a Synchronous Driven Unicycle-Like Autonomous Mobile Robot, 15. Fachgespräch Autonome Mobile Systeme AMS '99, München, Germany, 1999, in: G. Schmidt, U. Hanebeck, F. Freyberger (Hrsg.), Autonome Mobile Systeme 1999, Informatik aktuell, Springer-Verlag, Berlin Heidelberg, pp. 313-322, 1999.	1999
59.	C. Tarin, H. Brugger, B. Tibken and E.P. Hofer; Adaptive Self-Tuning Path Control System for an Autonomous Mobile Robot, Proc. 38th IEEE Conference on Decision and Control CDC '99, Phoenix, Arizona, USA, pp. 3886-3887, 1999.	1999
60.	J. Kümpel, J. Sparbert, B. Tibken and E.P. Hofer; Quadtree Decomposition of Configuration Space for Robot Motion Planning, Proc.of the 5th European Control Conference ECC '99, Karlsruhe, Germany, BA-1 1, pp. 1-6, 1999.	1999
61.	C. Tarin, H. Brugger, R. Moscardo, B. Tibken and E.P. Hofer; Low Level Sensor Fusion for Autonomous Mobile Robot Navigation, Proc. 16th IEEE Instrumentation and Measurement Technology Conference IMTC '99, Venice, Italy, Vol. 3, pp. 1377 -1382, 1999.	1999
62.	C. Rembe, E.P. Hofer and B. Tibken; Model Based Identification as a New Tool to Extract Physical Parameters of Microactuators from Measurements with Error Bounds, Proc.of the 2nd intl. Conference Modeling and Simulation of Microsystems MSM '99, San Juan, Puerto Rico, USA, pp. 276 -279, 1999.	1999
63.	F. Lehn, B. Tibken and E.P. Hofer; Diagnosis and Therapy of the Acute Radiation Syndrome, Proc. of the ISCB-GMDS-99 Conference, Heidelberg, Germany, pp. 143-146, 1999.	1999