

# Publications & Conferences ao.Univ.-Prof. Dr. Marion Rauner



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## A. Authored Books

- A.1. Rauner, M.S. (1999) *Strategisches Management von Praeventivprogrammen: Ein umfassendes Entscheidungsunterstuetzungssystem fuer die AIDS-Epidemie*, Peter Lang, Frankfurt am Main/Berlin/Bern/New York/Paris/Vienna, Germany.

## B. Edited Books

- B.1. Rauner, M.S., Heidenberger, K. (2003) *Quantitative Approaches in Health Care Management: Proceedings of the 27<sup>th</sup> Meeting of the European Working Group on Operational Research Applied to Health Services (ORAHS), Vienna, Austria, July 30 - August 4, 2001*, Peter Lang, Frankfurt am Main/Berlin/Bern/New York/Paris/Vienna, Germany.

## C. Guest Editor for Journals

- C.10. *Operations Research for Health Care* (Elsevier), "Operational research applied to health services: Finding better health-care decisions in new oceans of health data", Mallor, F., Brailsford, S., Rauner, M., Azcarate, C. (Eds.), 2018, Vol. 17, No. 3.
- C.9. *Central European Journal of Operations Research* (Springer), Bomze, I., Special Issue on "Emerging and innovative OR applications: a special issue in honor of Walter J. Gutjahr", Dörner, K. F., Hartl, R. F., Leopold-Wildburger, U., Pflug, G., Rauner, M., Stummer, C., Tragler, G. Wakolbinger, T. (Eds.), 2018, Vol. 26, No. 2 (VHB-JOURQUAL 3: C; SSCI, JCR)
- C.8. *EURO Journal on Decision Processes* (Springer), Special Issue on Healthcare, Morton, A., Rauner, M., Zaric, G. (Eds), 2016, Vol. 4, No. 3 (VHB-JOURQUAL 3: k.r)
- C.7. *Central European Journal of Operations Research* (Springer), Special Issue on "Recent advances in computational biology, bioinformatics, medicine, and healthcare by modern OR", Weber, G.W., Blazewicz, J., Rauner, M.S., Türkay, M. (Eds.), 2014, Vol. 22, No. 3 (VHB-JOURQUAL 3: C; SSCI, JCR)
- C.6. *Flexible Services and Manufacturing Journal* (Springer), Special Issue on "Health Care Management", Brailsford, S., Kozan, E., Rauner, M.S. (Eds.), 2012, Vol. 24, No. 4 (VHB-JOURQUAL 3: B; SSCI, JCR)
- C.5. *Central European Journal of Operations Research* (Springer), Special Issue on "In honor of Gustav Feichtinger", Hartl, R., Leopold-Wildburger, U., Rauner, M.S., Sorger, G., Tragler, G., Veliov, V. (Eds.), 2010, Vol. 18, No. 4. (VHB-JOURQUAL 3: C; SSCI, JCR)
- C.4. *Annals of Operational Research* (Springer), Operational Research Applied to Health Services: A Special Volume Dedicated to the International Conference ORAHS2007, Xie, X., Gallivan, S., Guinet, A., Rauner, M.S. (Eds.), 2010, Vol. 178, No. 1. (VHB-JOURQUAL 2.1: B; SSCI, JCR)
- C.3. *Central European Journal of Operations Research* (Springer), Special Issue on "Innovative Approaches for Decision Analysis in Energy, Health, and Life Sciences", Dlouhy, M., Pickl, S., Leopold-Wildburger, U., Rauner M.S. (Eds.), 2009, Vol. 17, No. 3. (VHB-JOURQUAL 3: C; SSCI, JCR)
- C.2. *Central European Journal of Operations Research* (Physika Verlag), Special Issue on "Quantitative Decision Support for Health Services", Rauner, M.S., Behrens, D., Wild, C. (Eds.), 2005, Vol. 13, No. 4. (VHB-JOURQUAL 3: C; SSCI, JCR)
- C.1. *European Journal of Operational Research* (Elsevier Science), Feature Issue on "OR Applied to Health Services: Planning for the Future with Scarce Resources", Rauner, M.S., Vissers, J.M.H. (Eds.), 2003, Vol. 150, No. 1. (VHB-JOURQUAL 3: A; SSCI, JCR)

## D. Journal Articles

- D.36. Rauner, M., Schaffhauser-Linzatti, M., Bauerstätter, J., Schwarz, B., Harper, P., Wittig, K., Mayer, B. (in print) A Decision Support System for Prevention and Costing of Occupational Injuries, *International Journal of Decision Support Systems*. (VHB-JOURQUAL 3: B; SSCI, JCR)
- D.35. Rauner, M.S., Niessner, H., Steen, O., Pope, A., Neville, K., O'Riordan, S., Sasse, L., Tomic, K. (2018) An Advanced Decision Support System for European Disaster Management: The Feature of the Skills Taxonomy, *Central European Journal of Operations Research*, Vol. 26, No. 2, pp. 485-530. (VHB-JOURQUAL 3: C; SSCI, JCR)
- D.34. Niessner, H., Rauner, M. S., & Gutjahr, W. J. (2018) A dynamic simulation-optimization approach for managing mass casualty incidents, *Operations Research for Health Care*, Vol. 17, No. 3, pp. 82-100. (Scopus)
- D.33. Rauner, M.S., Niessner, H., Leopold-Wildburger, U., Peric, N., Herdlicka, T. (2016) A policy management game for mass casualty incidents: an experimental study, *Flexible Services and Manufacturing Journal*, Vol. 28, No. 1-2, pp. 336-365. (VHB-JOURQUAL 3: B; SSCI, JCR)
- D.32. Neville, K., O'Riordan, S., Pope, A., Rauner, M., Rochford, M., Madden, M., Sweeney, J., Nussbaumer, A., McCarthy, N., O'Brien, C. (2016) Towards the development of a decision support system for multi-agency decision-making during cross-border emergencies, *Journal of Decision Systems*, Vol. 25(Sup. 1), pp. 381-396. (VHB-JOURQUAL 3: B; SSCI, JCR)
- D.31. Sommersguter-Reichmann, M., Rauner, M.S. (2015) Benchmarking rescue departments of the Austrian Red Cross using Data Envelopment Analysis and Fractional Regression Models, *International Journal of Production Research*, Vol. 53, No. 24, 7271-7285. (VHB-JOURQUAL 3: B; SSCI, JCR)
- D.30. Rauner, M.S., Mayer, B., Schaffhauser-Linzatti, M.M. (2015) Prävention von Arbeitsunfällen die Hände betreffend: Arbeitsunfallfolgekostenberechnung bei der Allgemeinen Unfallversicherungsanstalt (AUVA), *Handchirurgie Mikrochirurgie Plastische Chirurgie*, Vol. 47, No.4, 228-234. (SCI; Medline)
- D.29. Rauner, M.S., Schaffhauser-Linzatti, M.M., Bauerstätter, J. (2015) Decision support system for social occupational injury insurance institutions: cost analysis and targeted resource allocation, *Central European Journal of Operations Research*, Vol. 23, No. 1, 1-29 (VHB-JOURQUAL 3: C; SSCI, JCR)
- D.28. Rauner, M.S., Schaffhauser-Linzatti, M.M., Bauerstätter, J., Wittig, K., Mayer, B. (2014) Consequential costs of occupational accidents from an economic and managerial perspective: empirical results from Austria, *International Advances in Economic Research*, Vol. 20, No. 1, 351-352.
- D.27. Rauner, M.S., Schaffhauser-Linzatti M.M., Niessner, H. (2012) Resource planning for ambulance services in mass casualty incidents: A DES-based policy model, *Health Care Management Science*, Vol. 15, No. 2, 254-269 (VHB-JOURQUAL 3: A; SSCI, JCR)
- D.26. Rauner, M.S., Heidenberger, K., Hermessec, D., Mokic, A., Zsifkovits, M. (2011) Scope and role of strategic technology management in Austrian hospitals: A decade later, *International Journal of Healthcare Technology and Management*, Vol. 12, No. 3/4, pp. 250-279.
- D.25. Dawid, H., Dockner, E., Hartl, R.F., Haunschmied, J., Leopold-Wildburger, U., Luptacik, M., Mehlmann, A., Prskawetz, A., Rauner, M.S., Sorger, G., Tragler, G., Veliov, V.M., Wirl, F. (2010) Gustav Feichtinger Celebrates his 70-th Birthday, *Central European Journal of Operations Research*, Vol. 18, No. 4, 437-451 (VHB-JOURQUAL 3: C; SSCI, JCR)
- D.24. Kraus, M., Rauner, M.S., Schwarz S. (2010) Operations research and management games with a special focus on health care games, *Central European Journal of Operations Research*, Vol. 18, No. 4, 567-591 (VHB-JOURQUAL 3: C; SSCI, JCR)
- D.23. Rauner, M.S., Gutjahr, W., Heidenberger, K., Wagner, J., Pasia, J. (2010) Dynamic policy modeling for chronic diseases: metaheuristic-based identification of pareto-optimal screening strategies, *Operations Research*, Vol: 58, No. 5, 1269-1286 (VHB-JOURQUAL 3: A+; SSCI, JCR)

- D.22. Schaffhauser-Linzatti, M.M., Zeileis, A., Rauner, M.S. (2009) Effects of the Austrian performance-oriented inpatient reimbursement system on treatment patterns: illustrated on cases with knee-joint problems, *Central European Journal of Operations Research*, Vol. 17, No. 3, 293-314 (VHB-JOURQUAL 3: C; SSCI; JCR)
- D.21. O'Neill, L., Rauner, M.S., Heidenberger, K., Kraus, M. (2008) A cross-national comparison and taxonomy of hospital efficiency studies using data envelopment analysis, *Socio-Economic Planning Sciences*, Vol. 42, No. 3, 158-189 (SSCI, JCR)
- D.20. Rauner, M.S., Schwarz, S., Kraus, M. (2008) Competition under different reimbursement systems: The concept of an internet-based hospital management game, *European Journal of Operational Research*, Vol. 185, No. 3, 948-963. (VHB-JOURQUAL 3: A; SSCI, JCR)
- D.19. Behrens, D., Rauner, M.S., Caulkins, J.P. (2008) Modelling the spread of hepatitis C via tattoo parlours: Implications for public health interventions, *OR Spectrum*, Vol. 30, No. 2, 269-288 (VHB-JOURQUAL 3: A; SSCI, JCR)
- D.18. Brailsford, S.C., Gutjahr, W., Rauner, M.S., Zeppelzauer, W. (2007) Optimal screening policies for diabetic retinopathy using a new combined discrete-event simulation and ant colony optimization approach, *Computational Management Science*, Vol. 4, No. 2, 59-83. (VHB-JOURQUAL 3: listed, k.r.)
- D.17. Gutjahr, W.J., Rauner, M.S. (2007) An ACO algorithm for a dynamic regional nurse-scheduling problem in Austria, *Computers & Operations Research*, Vol. 41, No. 3, 642-666. (VHB-JOURQUAL 3: B; SSCI, JCR)
- D.16. Rauner, M.S., Harper, P., Schwarz, B. (2005) Economic impact of occupational accidents: Resource allocation for prevention program, *Central European Journal of Operations Research*, Vol. 13, No. 4, 393-424. (VHB-JOURQUAL 3: C; SSCI, JCR)
- D.15. Rauner, M.S., Schneider, G., Heidenberger, K. (2005) The effect of reimbursement systems and quality of care on regional inpatient allocation: A non-linear optimisation model, *IMA - Journal of Management Mathematics*, Vol. 16, No. 3, 217-237.
- D.14. Rauner, M.S., Brailsford, S.C., Flessa, S. (2005) The use of discrete-event simulation to evaluate strategies for the prevention of mother-to-child transmission of HIV in developing countries, *Journal of the Operational Research Society*, Vol. 56, No. 2, 222-233. (VHB-JOURQUAL 3: B; SSCI, JCR)
- D.13. Rauner, M.S., Heidenberger, K., Pesendorfer, E.-M. (2005) Using monte carlo simulation to evaluate diabetic foot prevention strategies in Austria, *Health Care Management Science*, Vol. 8, No. 4, 253-265. (VHB-JOURQUAL 3: A; SSCI, JCR)
- D.12. Rauner, M.S., Zeileis, A., Schaffhauser-Linzatti, M.-M., Hornik, K. (2003) Modelling the effects of the Austrian inpatient reimbursement system on length-of-stay distributions, *OR-Spectrum*, Vol. 25, No. 2, 183-206. (VHB-JOURQUAL 3: A; SSCI, JCR)
- D.11. Rauner, M.S., Bajmoczy, N. (2003) How many AEDs in which region? An economic decision model for the Austrian Red Cross, *European Journal of Operational Research*, Vol. 150, No. 1, 3-18 (VHB-JOURQUAL 3: A; SSCI, JCR)
- D.10. Leonard, K.J., Rauner, M.S., Schaffhauser-Linzatti, M.-M., Yap, R. (2003) The effect of funding policy on day of week admissions and separations in hospitals: the cases of Canada and Austria, *Health Policy*, Vol. 63, No. 3, 239-257. (JOURQUAL 2.1: B; SSCI, JCR)
- D.9. Rauner, M.S., Schaffhauser-Linzatti, M.-M. (2002) Impact of international in-patient payment strategies on health technology management: a system-dynamics-model for Austria, *Socio-Economic Planning Sciences*, Vol. 36, No. 3, 133-154. (SSCI, JCR)

- D.8. Rauner, M.S., Heidenberger, K. (2002) Scope and role of strategic technology management in hospitals: the case of Vienna, Austria, *International Journal of Healthcare Technology and Management*, Vol. 4, Nos. 3/4, 239-258.
- D.7. Rauner, M.S. (2002) Resource allocation for HIV/AIDS control programs: a model-based policy analysis, *OR-Spectrum*, Vol. 24, No. 1, 99-124. (VHB-JOURQUAL 3: A; SSCI, JCR)
- D.6. Rauner, M.S. (2002) Using simulation for AIDS policy modeling: benefits for HIV/AIDS prevention policy makers in Vienna, Austria, *Health Care Management Science*, Vol. 5, No. 2, 121-134. (VHB-JOURQUAL 3: A, SSCI, JCR)
- D.5. Rauner, M.S., Schaffhauser-Linzatti, M.-M. (2001) Interplay between in-patient reimbursement systems and healthcare technology management: the Austrian case, *International Journal of Healthcare Technology and Management*, Vol. 3, No. 1, 1-23.
- D.4. Rauner, M.S., Brandeau M.L. (2001) AIDS policy modeling for the 21st Century: an overview of key issues, *Health Care Management Science*, Vol. 4, No. 3, 165-180. (VHB-JOURQUAL 3: A; SSCI, JCR)
- D.3. Rauner, M.S. (1999) A note on "A disaggregation model of a flexible nurse scheduling support system" by Irem Ozkarahan, *Socio-Economic Planning Sciences* 25 (1991) 9-26, *Socio-Economic Planning Sciences*, Vol. 33, No. 2, 173-177. (SSCI, JCR)
- D.2. Heidenberger, K., Roth, M.S. (1998) Taxonomies in the strategic management of health technology: the case of multiperiod compartmental HIV/AIDS policy models, *International Journal of Technology Management, Special Issue on Management of Technology in Health Care*, Vol. 15, No. 3/4/5, 336-358. (VHB-JOURQUAL 3: C; SSCI, JCR)
- D.1. Heidenberger, K., Roth, M.S. (1998) Entscheidungsunterstützung fuer die Auswahl von HIV/AIDS-Programmen: ein umfassendes, mehrperiodiges Mehrcompartmentmodell, *Zeitschrift fuer oeffentliche und gemeinwirtschaftliche Unternehmen*, Vol. 21, No. 2, 203-211. (VHB-JOURQUAL 3: C)

## E. Contributions to Books/Conference Proceedings

- E.23. Rauner, M., Schaffhauser-Linzatti, M., Kaufmann, S. M., & Blaschke, S. (2017) Fluktuation von Pflegepersonal in Krankenanstalten, in: Theuvsen, L., Andessner, R., Gmuer, M., Greiling, D. (Eds.) *Non-profit-Organisationen und Nachhaltigkeit*, Springer Gabler, Wiesbaden, 401-410.
- E.22. Rauner, M., Pope, A., Niessner, H., Neville, K., Sasse, L., Tomic, K., O'Riordan, S. (2016) *Decision Support for Strategic Disaster Management: First Release of a Wiki*, in: Dawid, H., Doerner, K., Feichtinger, G., Kort, P.M. (eds.) *Dynamic Perspectives on Managerial Decision Making – Essays in Honor of Richard F. Hartl*. Springer, Heidelberg, Germany, 413-439.
- E.21. Steen, O., Pope, A., Rauner, M., Holmberg, N., Woodworth, S., O'Riordan, S., Niessner, N., Neville, K. (in print) *A Comprehensive Decision Support System for Enhanced Emergency Decision Management and Training*, Proceedings of the First IFIP Conference on Information Technology in Disaster Risk Reduction (ITDRR 2016)
- E.20. Schaffhauser-Linzatti, M., Rauner, M., Blaschke, S., Eder, N., Kolesnik, M. (2015) Strategisches Controlling in Krankenanstalten: Eine statistische Analyse am Beispiel Wiens, in: Andessner, R., Greiling, D., Gmuer, M., Theuvsen, L. (Eds.) *Ressourcenmobilisierung durch Nonprofit-Organisationen, Theoretische Grundlagen, empirische Ergebnisse und Anwendungsbeispiele*, Trauner Verlag, Linz, pp. 325-335.
- E.19. Rauner, M.S., Schaffhauser-Linzatti, M.M., Bauerstaetter, J., Schwarz, B., Harper, P., Wittig, K., Mayer, B. (2014) Praevention von Arbeitsunfaellen: Einsatz und Potenzial von Entscheidungsunterstützungssystemen zur Berechnung von Arbeitsunfallfolgekosten bei der Allgemeinen Unfallversicherungsanstalt (AUVA) in den Jahren 2001 bis 2011, Krczal, A., Krczal, E. (Eds.) *Aktuelle Fragen des Gesundheitsmanagement II, Festschrift Josef Deszy zum 75. Geburtstag*, Maudrich (Facultas), Vienna, Austria, 155-179.

- E.18. Rauner, M.S., Schaffhauser-Linzatti, M.M. (2013) Impact of Inpatients Reimbursement Systems on Hospital Performance: the Austrian Case-Based Payment Strategy, in: Zaric, G.S. (Ed.) *Operations Research and Health Care Policy, International Series in Operations Research & Management Science*, Volume 190, Springer-Verlag, New York/Heidelberg/Dordrecht/London, Germany, 129-153.
- E.17. Rauner, M.S., Haunschmied, J. (2010), Austrian Society of Operations Research (Oesterreichische Gesellschaft fuer Operations Research, OEGOR), *Wiley Encyclopedia of Operations Research and Management Science*
- E.16. Rauner, M.S., Kraus, M. (2009) Operations research and management games with a special focus on health care games, *Proceedings of the 10th International Symposium on Operations Research in Slovenia, Nova Gorica, Slovenia, September 23-25, 25-31*
- E.15. Schaffhauser-Linzatti, M.-M., Rauner, M.S. (2008) Quo vadis Leistungsorientierte Krankenhausfinanzierung? Österreichische Erfahrungen und Perspektiven, in: Schauer, R., Helmig, B., Purtschert, R., Wirt, D. (Eds.) *Steuerung und Kontrolle in Nonprofit-Organisationen, 8. Colloquium der NPO-Forscher im deutschsprachigen Raum, Johannes Kepler Universität Linz, 17.-18. April 2008, 335-364.*
- E.14. Rauner M.S. (2007) Ein Rueckblick auf die Leistungsorientierte Krankenhausfinanzierung in Oesterreich von 1997-2006 unter besonderer Beruecksichtigung der Anreizwirkungen auf Krankenhaeuser, in Braeuning, D., Greiling, D. (Eds.) *Stand und Perspektiven der oeffentlichen Betriebswirtschaftslehre, Festschrift fuer Professor Dr. Peter Eichhorn*, Berliner Wissenschafts-Verlag, Berlin, Germany.
- E.13. Rauner, M.S., Gutjahr, W., Brailsford, S.C., Zeppelzauer, W. (2005) Optimal screening policies for diabetic retinopathy using a combined Discrete-Event Simulation and Ant Colony Optimization Approach, in: Anderson, J.G., Katzper, M. (Eds.), *Proceedings of the International Conference on Health Sciences Simulation, 2005 Western MultiConference 2005, New Orleans, Louisiana, January 23-27, 2005*, The Society of Computer Simulation International, San Diego, USA, 147-152.
- E.12 Rauner, M.S., Heidenberger, K., Pesendorfer, E.-M. (2004) Using a Markov model to evaluate the cost-effectiveness of diabetic foot prevention strategies in Austria, Western Multiconference, in: Anderson, J.G., Katzper, M. (Eds.), *Proceedings of the International Conference on Health Sciences Simulation, 2004 Western MultiConference, San Diego, California, USA, January 28-22, 2004*, The Society of Computer Simulation International, San Diego, USA, 63-68.
- E.11. Rauner, M.S., Brailsford, S.C., Flessa, S. (2003) Using discrete event simulation to select affordable intervention programs for vertical HIV transmission in developing countries, in: Anderson, J.G., Katzper, M. (Eds.), *Proceedings of the International Conference on Health Sciences Simulation, 2003 Western MultiConference, Orlando, Florida, January 19-23, 2003*, The Society of Computer Simulation International, San Diego, USA, 59-64.
- E.10. Rauner, M.S., Heidenberger, K. (2001) Scope and role of strategic technology management in hospitals: the case of Vienna, Austria, *CD-Rom Conference Proceedings, 1st International Conference on Management of Healthcare and Medical Technology, The Hospital of the Future*, Enschede, The Netherlands, April 22-24.
- E.9. Rauner, M.S., Leonard, K.J., Schaffhauser-Linzatti, M.-M., Green, B. (2000), *Does funding policy impact on day of week admissions and separations of inpatients? An Austrian-Canadian comparison*, in: Riley, J. (Eds.), *Planning for the Future Health Service Quality and Emergency Accessibility*, Proceedings of the 26th meeting of the European Working Group on Operational Research Applied to Health Services, Glasgow, Scotland, July 31 – August 4, 2000, Glasgow Caledonian University, Glasgow, Great Britain, 153-167.
- E.8. Leonard, K.J., Rauner, M.S., Schaffhauser-Linzatti, M.-M. (2000) The effect of funding policy on day of week admissions and separations in hospitals: the cases of Canada and Austria, *On-Line/CD-Rom Conference Proceedings of Extended Abstracts of the INFORMS/KORMS International Meeting, Seoul, Korea, June 18-21.*

- E.7. Rauner, M.S. (2000) A comment on the primary health care reform in Latvia from an Austrian point of view, in: Mikitis, E. (Eds.), *Information, Management, and Planning of Health Services*, Proceedings of the 25th meeting of the European Working Group on Operational Research Applied to Health Services, Valmiera, Latvia, July 18-23, 1999, Health Statistics and Medical Technology Agency, Riga, Latvia, 231-232.
- E.6. Rauner, M.S. (2000) Managing the AIDS epidemic in Vienna, Austria: prevention strategies for the 21st century, in: Mikitis, E. (Eds.), *Information, Management, and Planning of Health Services*, Proceedings of the 25th meeting of the European Working Group on Operational Research Applied to Health Services, Valmiera, Latvia, July 18-23, 1999, Health Statistics and Medical Technology Agency, Riga, Latvia, 101-114.
- E.5. Rauner, M.S. (2000) Using simulation to analyze the effects of prevention programs on the HIV epidemic in Vienna, Austria, in: Anderson, J.G., Katzper, M. (Eds.), *Proceedings of the International Conference on Health Sciences Simulation, 2000 Western MultiConference, San Diego, California, January 23-27, 2000*, The Society of Computer Simulation International, San Diego, USA, 41-46.
- E.4. Rauner, M.S., Schaffhauser-Linzatti, M.-M. (1999) Evaluation of the new Austrian inpatient reimbursement system, in: De Angelis, V., Ricciardi, N., Storchi, G. (Eds.), *Monitoring, Evaluating, Planning Health Services, Proceedings of the 24th Meeting of the European Working Group on Operational Research Applied to Health Services, Rom, Italy, July 19-24, 1998*, World Scientific Publishing Co. Pte. Ltd., Singapore, 221-233.
- E.3. Rauner, M.S. (1998) The AIDS epidemic in Vienna - a challenge for prevention, in: Schmidl, H., Svoboda, T., Huebel, U. (Eds.), *Planning Health for Cities, Strategies, Concepts and Experiences, Book of Abstracts, Wien Vital, International Congress, Planning Health For The City - Strategies, Concepts, and Experience, organized by WHO Project "Vienna - Healthy City"*, Vienna, Austria, October 8-9.
- E.2. Roth, M.S., Heidenberger, K. (1998) Strategic investment in HIV/AIDS control programmes: a system-dynamics-based economic evaluation, in Kischka, P., Lorenz, H.-W., Derigs, U., Domschke, W., Kleinschmidt, P., Moehring, R. (Eds.), *Operations Research Proceedings 1997, Selected Papers of the Symposium on Operations Research (SOR 97)*, Springer-Verlag, Berlin/Heidelberg/New York, Germany, 575-580
- E.1. Gronalt, M., Guenther, H.-O., Roth, M.S. (1993) Simulationsuntersuchungen zur Abstimmung von Produktions- und Transportlosgrößen in der Serienfertigung, in: Hansmann, K.-W., Bachem, A., Jarke, M., Katzenberger, W.E., Marusev, A. (Eds.), *Operations Research Proceedings 1992, DGOR, Vorträge der 21. Jahrestagung*, Springer-Verlag, Berlin/Heidelberg/New York, Germany, 152.

## F. Magazine Articles

- F.3. Rauner, M.S., Schaffhauser-Linzatti, M.M., Bauerstätter, J., Wittig, K., Mayer, B. (2012) Unfallfolgekosten – Die wirtschaftlichen Auswirkungen von Arbeitsunfällen, *Sichere Arbeit*, 11-15.
- F.2. Rauner, M.S., Schaffhauser-Linzatti, M.M., Niessner, H. (2011) Ein Managementplanspiel von Großschadenseinsätzen für Rettungsdienste, *Das österreichische Gesundheitswesen – ÖKZ*, Vol. 52, No. 7, 8-11.
- F.1. Rauner, M.S., Pesendorfer, E.-M. (2006) Kosten-Wirksamkeit von Präventionsmaßnahmen fuer das Diabetische Fußsyndrom, *Klinik*, Vol. 16, No. 3, 12-13.

## G. Submitted Articles

## H. Working Papers

## I. Miscellaneous

- I.5. Rauner, M.S. (2002) *Quantitative Models for Strategic Decision Support in Health Care Management*, Cumulative Habilitation, Department of Innovation and Technology Management, University of Vienna, Austria.
- I.4. Rauner, M.S., Schaffhauser-Linzatti, M.-M. (2001) *Strategische Analysen zur leistungsorientierten Krankenhausfinanzierung in Oesterreich*, 10 Jahre BetriebsWirtschaftsZentrum der Universitaet Wien, University of Vienna, Austria, 31.
- I.3. Rauner, M.S. (2000) *Additional Data Set for the Paper "Resource Allocation for HIV/AIDS Control Programs: a Model-based Policy Analysis,"* Department of Innovation and Technology Management, University of Vienna, Austria.
- I.2. Roth, M.S. (1997) *Strategisches Management von Gesundheitstechnologien am Beispiel mehrperiodiger HIV/AIDS-Mehrcompartment-Modelle*, Doctoral Dissertation, Institute of Business Administration, Department of Innovation and Technology Management, University of Vienna, Austria.
- I.1. Roth, M.S. (1992) *Simulationsuntersuchung zur Abstimmung von Produktions- und Transportlosen in der Serienfertigung mit Hilfe von Xcell+*, Thesis, Department of Production and Logistics, Institute of Business Administration, University of Vienna, Austria.

## J. Media

- J.10. Bauer, K. (2018) Der Standard, 9 Jun 2018, <https://derstandard.at/2000081161678/Bewerbung-Guter-Charakter-schlaegt-gute-Noten>, *Bewerbung: Guter Charakter schlägt gute Noten.*
- J.9. Engelhardt-Krajanek, M. (2017) ORF Ö1 Sendereihe Radiokolleg, Oct (to appear), *Thema: Prävention und Gesundheit*
- J.8. Dirl, T. (2017) Universität Wien Medienportal, 28 Apr 2017, <https://medienportal.univie.ac.at/uniview/wissenschaft-gesellschaft/detailansicht/artikel/oekonomisch-nicht-anders-moeglich/> *SEMESTERFRAGE 2017: Gesundheit aus dem Labor – was ist möglich?, Ökonomisch nicht anders möglich.*
- J.7. Peter, S. (2016) Ärzte Krone, 1 Aug 2016, [http://www.medmedia.at/aerztekrone\\_ausgabe/aek201614/](http://www.medmedia.at/aerztekrone_ausgabe/aek201614/), *Wer Großes will, erreicht auch viel! - ANLÄSSLICH DER FESTVERANSTALTUNG „Dr. Karl Landsteiner – vor 100 Jahren Prosektor im Wilhelminenspital“ wurde auf das Lebenswerk und Erbe des Entdeckers der Blutgruppen zurückgeblickt und auch ein Ausblick auf die Zukunft der Transfusionsmedizin gegeben.*
- J.6. Kötritsch, M. (2013) Die Presse, 27 Sep 2013, [http://karrierenews.diepresse.com/home/karrieretrends/1457881/Im-Trockendock\\_Spielend-lernen#](http://karrierenews.diepresse.com/home/karrieretrends/1457881/Im-Trockendock_Spielend-lernen#), *Im Trockendock: Spielend lernen, Wo Emotionen im Spiel sind, ist der Lerneffekt enorm. Daher sind wirtschaftliche und organisatorische Zusammenhänge auf dem Spielbrett und in Onlinesimulationen einfach zu verstehen.*
- J.5. Weiser, U. (2007) Presse, 25 Mai 2007, <http://diepresse.com/home/panorama/oesterreich/306638/print.do>, *Der Preis des Überflusses: 1,37 Mrd. Euro, WAS KOSTET ÜBERGEWICHT? Zu dick sein ist teuer für die Allgemeinheit – und für den Einzelnen. Vor allem weil es meistens sozial Schwache trifft.*
- J.4. Martin Rümmele, M. (2003) Wirtschaftsblatt, 12 Mär 2003, <http://wirtschaftsblatt.at/home/834592/index>, *Wirtschaft lehnt Regierungspläne zur Aufspaltung der Unfallversicherung ab; Arbeitsunfälle: Folgekosten von 1,7 Milliarden; Eine neue Studie der Unfallversicherung beziffert erstmals die langfristigen Folgekosten von Arbeitsunfällen für Unternehmen, Kassen und die Volkswirtschaft.*
- J.3. FWF (2002) Mathematische Gesundheit, Computermodelle als "virtuelle Entscheidungshilfe", Univer-sum, 1 Jan 2002, <http://www.universum.co.at/>, *Mathematische Gesundheit, Computermodelle als "virtuelle Entscheidungshilfe"*



- J.2. Fonds Gesundes Österreich (2001) Gesundes Österreich, Magazin für Gesundheitsförderung und Vorsorge, 1 Dez 2001, *Wenn die Mittel knapp werden*.
- J.1. Anonymous (2001) Science.orf.at, 1 Sep 2001, <http://sciencev1.orf.at/science/news/20429>, *Gesundheit mathematisch modelliert*.

## K. Evaluation of the Publications by Journal Rankings

My research interests pertain to the areas of strategic, tactical, and operations management as well as health economics. A special focus is given to optimal resource allocation using combined quantitative & qualitative methodologies and decision support systems for policy makers in health care and disaster management. My main topics include: 1) disease/injury prevention programmes, 2) investigation of hospital re-imburement systems, 3) health care/disaster management games, and 4) health care delivery. I have published more than 50 international articles (27 SSCI) as a result of international, national, and local inter-disciplinary co-operations with both researchers and practitioners (see *publication list*). For example, I have collaborated with researchers from Stanford University, Carnegie Mellon University, University of Toronto, University of Southampton, Erasmus University Rotterdam, University of Greifswald, Vienna University of Economics and Business Administration, and Technical University of Vienna. I have presented my research at more than 120 international conferences and institutions including many invited talks and keynotes (see *publication list*).

### Evaluation of the Publications by Journal Rankings

- **VHB-JOURQUAL 2.1:** Ranking of the Association of Business Administration Professors:  
<http://vhbonline.org/service/jourqual/vhb-jourqual-21-2011/>
- **SSCI:** Social-Science Citation Index: Ranking of the ISI Web of Knowledge  
<http://www.thomsonscientific.com/cgi-bin/jrnst/jloptions.cgi?PC=J>
- **JCR:** Journal Citation Report: Ranking of the ISI Web of Knowledge  
<http://scientific.thomson.com/support/recorded-training/jcr/>

### 37 International Peer-Reviewed Journal Publications & 10 Editorials by Marion S. Rauner (1998 – 2018)

Journal	Year	VHB-JOURQUAL 3	SCI/SSCI/JCR-Ranking
Annals of Operations Research	2010 (Eds.)	B	X
Central European Journal of Operations Research	2005 & 2005 (Eds.) 2009 2009 (Eds.) 2 x 2010 & 2010 (Eds.) 2014 (Eds.) 2015 2018 & 2018 (Eds.)	C	X
Computational Management Science	2007		
Computers & Operations Research	2007	B	X
EURO Journal on Decision Processes	2016		
European Journal of Operational Research	2003 & 2003 (Eds.) 2008	A	X
Flexible Services and Manufacturing Journal	2012 (Eds.) 2016	B	X
Handchirurgie Mikročirurgie Plastische Chirurgie	2015		X [SCI plus Medline]
Health Care Management Science	2001 2002 2005 2012	A	X
Health Policy	2003	B	X
International Journal of Decision Support Systems	<b>forthcoming</b>		
International Journal of Production Research	2015	B	X
International Journal of Healthcare Technology and Management	2001 2002 2011		
International Advances In Economic Research	2014		
International Journal of Technology Management	1998	C	X
IMA – Journal of Management Mathematics	2005		
Journal of Decision Systems	2016	B	X
Journal of the Operational Research Society	2005	B	X
<b>Operations Research</b>	<b>2010</b>	<b>A+</b>	<b>X</b>
Operations Research for Health Care	2018 & 2018 (Eds.)		
OR Spectrum	2002 2003 2008	A	X
Socio-Economic Planning Sciences	1999 2002 2008		X
Zeitschrift fuer oeffentliche und gemeinwirtschaftliche Unternehmungen	1998	C	
<b>Summary</b>		<b>A+: 1</b> <b>A: 9; 1 editorial</b> <b>B: 6; 2 editorial</b> <b>C: 8; 6 editorials</b>	<b>27 contributions</b> <b>8 editorials</b>

Betriebswirte-Ranking 2009 (Ranking of Professors of Management): Top 100 – Researchers under 40 years: rank 27

<http://www.handelsblatt.com/bwl-u40/>

Betriebswirte-Ranking 2012 (Ranking of Professors of Management): Top 250 – Researchers' lifework – rank 304 with 3.31 points (rank 250 would be 3.48 points) : <http://tool.handelsblatt.com/tabelle/index.php?id=110&so=1a&pc=250&po=0>

## L. Scientific Talks

- K.128 Rauner, M., Simeon Beile, Niessner Helmut (2018) *A Simulation Optimizer for Mass Casualty Incidents: Improved Management Strategies for Different Disaster Scenarios*, Third EURO Hope mini-conference, Catholic University of Leuven, Belgium, September 13-14.
- K.127 Schosser, A., Affenzeller, A., Senft, B., Rauner, M. (2018) *Ambulant psychiatric rehabilitation in Vienna, Austria: A cost-effectiveness analysis*, annual meeting of the EURO Working Group on ORAHS, Oslo Science Park Oslo, Norway, July 29 – August 4.
- K.126 Staribacher, D., Niessner, H., Rauner, M. (2018) *Hospital resource planning for mass casualty events: a DES-based case study of a major Viennese hospital*, EURO 2018, Valencia, Spain, July 8 - 11.
- K.125 Bauer, K., Leimüller, G., Schuch, K., Rauner, M. (2018) *Innovation – Wie entsteht Neues im Arbeitskontext?*, Podium Discussion/Round Table, UNI Success 2018, University of Vienna, Austria, June 5.
- K.124 Schosser, A., Affenzeller, A., Senft, B., Rauner, M. (2018) *A cost-effectiveness analysis for an ambulant psychiatric rehabilitation programme in Vienna, Austria*, NOEG annual meeting, Vienna, Austria, Norway, May 11 – 12.
- K.123 Rauner, M. (2018) *Innovation & Technology Management in Sport*, Te(a)chIn Sport (Erasmus+ Programme of the EU), Universität Wien, Zentrums für Sportwissenschaft und Universitätsport, Vienna, Austria, April 18 – 20.
- K.122 Rauner, M. (2017) *Schülertag: Faszination Wirtschaftswissenschaften; Workshop: Simulation von Katastrophen/Planspiel für Rettungsorganisationen*, Jahrestagung des Vereins für Socialpolitik, Vienna, Austria, September 4-6.
- K.121 Rauner, M., Niessner, H., Neville, K., Pope, A., Woodworth, S., Steen, O., Holmberg, N. (2017) *Improving Interoperability of Major Disasters: Main Tasks, Materials, Equipment, EU Civil Protection Modules and Responders - A Decision Support System*, 43th annual meeting of the EURO Working Group on ORAHS, Bath, United Kingdom, July 30 – August 4.
- K.120 Rauner, M., Niessner, H., Neville, K., Pope, A., Woodworth, S., Steen, O., Holmberg, N. (2017) *Decision Support for Improving Interoperability of Major Disasters: Main Tasks, Materials, Equipment, EU Civil Protection Modules and Responders*, Informs Healthcare 2017, Rotterdam, The Netherlands, July 26-28.
- K.119 Rauner, M.S., Niessner, H., Gutjahr, W. (2017) *A Dynamic Simulation-Optimization Approach for Managing Casualty Incidents: Potential for the current European Refugee Crisis*, Second EURO Hope mini-conference, Vienna, Austria, June 29-30.
- K.118 Rauner, M.S., Niessner, H., Gutjahr, W. (2016) *A Management Policy Game for Mass Casualty Incidents: Simulation-Optimization Approaches Beat Human Players*, 42nd annual meeting of the EURO Working Group on ORAHS, Pamplona, Spain, July 24-29.
- K.117 Rauner, M.S. (2016) *Gefahrenpotenzial von Epidemien*, *Special Celebration Meeting of the Karl Landsteiner Society “Karl Landsteiner –Prosecutor at the Wilhelminen Hospital 100 years ago”*, Karl Landsteiner Society”, Vienna, Austria, Invited Talk, June 7.
- K.116 Rauner, M.S. (2016) *Organizing Evacuation Management for Major Disasters: Main Tasks, Materials, Equipment, EU Civil Protection Modules and Responders*, Seminar Series of Research Institute for Supply Chain Management, Vienna University of Economics and Business, Austria, Invited Seminar Talk, April 25.
- K.115 Schaffhauser-Linzatti, M., Rauner, M., Kaufmann, S. M., Blaschke, S. (2016) *Fluktuation von Pflegepersonal in Krankenanstalten*, 12. International NPO-Colloquium, University of Göttingen, April 21-22.

- K.114 Rauner, M.S., Niessner, H., Sasse, L., Tomic, C. (2016) *Organizing emergency shelter for major disasters: main tasks, materials, equipment, EU Civil Protection Modules, and responders involved*, First EURO Hope mini-conference, Hamburg, Germany, March 4-5.
- K.113 Rauner, M.S., Mayer, B. (2015) *Unfallbereich – Konzepte, Epidemiologie, Best Practice: Prävention von Arbeitsunfällen die Hände betreffend: Arbeitsunfallfolgekostenberechnung bei der AUVA*, Sigmund-Freud-University, B4-7 Akut- und Notfallmedizin, Vienna, Austria, October 8.
- K.112 Rauner, M.S., Niessner, H., Sasse, L., Tomic, K. (2015) *Decision support for health care emergency management: interlinking interventions, responders, and equipment/materials*, OR2015, International Conference on Operations Research, Vienna, Austria, Sept 1-4.
- K.111 Schaffhauser-Linzatti, M.-M., Rauner, M.S., Mayer, B. (2015) *The application of a decision support system to calculate consequential costs of hand injuries*, OR2015, International Conference on Operations Research, Vienna, Austria, Sept 1-4.
- K.110 Rauner, M.S., Niessner, H., Sasse, L., Tomic, K. (2015) *A taxonomy for health care emergency management: interlinking emergency interventions, responders, and equipment/materials*, 41st annual meeting of the EURO Working Group on ORAHS, Montreal, Canada, July 19-24.
- K.109 Rauner, M.S. (2015) *Flüchtlingssituation aus medizinischer Sicht: Epidemiologische Aspekte und Ressourcenplanung*, Sigmund-Freud-University, B4-7 Akut- und Notfallmedizin, Vienna, Austria, October 9.
- K.108 Rauner, M.S., Niessner, H., Sasse, L., Tomic, K. (2015) *Decision support for health care emergency management: interlinking emergency interventions, responders, and equipment/materials*, OEGOR working Group and Austrian Health Economics Association (ATHEA) meeting 'Operations Research in Health Care', Vienna, Austria, May 22.
- K.107 Rauner, M.S., Schaffhauser-Linzatti, M.M., Bauerstätter, J., Wittig, K., Mayer, B. (2014) *Prevention of occupational Hand injuries and subsequent cost prediction at the Austrian Compensation Board (AUVA)*, 3rd European Hand Injury Congress, Vienna, Austria, October 20-21.
- K.106 Rauner, M.S., Sommersguter-Reichmann, M. (2014) *Benchmarking Rescue Departments of the Austrian Red Cross Using Data Envelopment Analysis and Fractional Regression Models*, 40th annual meeting of the EURO Working Group on ORAHS, July 20-25.
- K.105 Rauner, M.S., Sommersguter-Reichmann, M. (2014) *Impact of Environmental Conditions on Efficiency of Austrian Red Cross Departments: Data Envelopment Analysis (DEA)*, 20th Conference of the IFORS & EURO, Barcelona, Spain, July 13-18.
- K.104 Rauner, M.S., Sommersguter-Reichmann, M. (2014) *Benchmarking Rescue Departments of the Austrian Red Cross Using Data Envelopment Analysis and Fractional Regression Models*, University of Graz, Invited Seminar Talk, Austria, May 27.
- K.103 Rauner, M.S., Niessner, H., Leopold-Wildburger, U., Peric, N., Herdlicka, T. (2014) *Disaster Management Game (SanHist)*, Institute for Applied Studies, Invited Seminar Talk, Vienna, Austria, May 19.
- K.102 Schaffhauser-Linzatti, M.M., Rauner, M.S., Blaschke, S., Eder, N., Kolesnik, M. (2014) *Strategisches Controlling in Krankenanstalten: Eine statistische Analyse am Beispiel Wiens*, 11. International NPO-Colloquium, University of Linz, April 3-4.
- K.101 Rauner, M.S., Niessner, H., Leopold-Wildburger, U., Peric, N., Herdlicka, T. (2013) *Online Scheduling of Ambulance Services at Disaster Sites Using a Policy Simulator: Experimental Analysis of Players' Strategies and Success*, University of Pamplona, Invited Seminar Talk, Spain, December 10.
- K.100 Rauner, M.S., Schaffhauser-Linzatti, M.M., Bauerstaetter, Schwarz, B., Harper, P., Wittig, K., Mayer, B. (2013) *Prevention of occupational injuries at the General Accident Insurance Institution (AUVA)*:

*design and application of decision support systems for predicting subsequent costs from 2001 to 2011*, EURO Mini-Conference, Graz, Austria, October 17-19.

- K.99. Rauner, M.S., Lauss, D., Sommersguter-Reichmann, M. (2013) *Efficiency of Rescue Departments of the Austrian Red Cross: A Data Envelopment Analysis Benchmarking Study*, 39th meeting of the European Working Group on OR Applied to Health Services, Istanbul, Turkey, July 7-12.
- K.98. Rauner, M.S., Lauss, D., Sommersguter-Reichmann, M. (2013) *Benchmarking Rescue Departments of the Austrian Red Cross Using Data Envelopment Analysis*, EURO/INFORMS international meeting, Rome, Italy, July 1-4.
- K.97. Lauss, D., Rauner, M.S., Sommersguter-Reichmann, M. (2013) *Benchmarking von ausgewählten Dienststellen des Österreichischen Roten Kreuzes anhand einer Data Envelopment Analysis*, meeting of the Austrian Working Group on Operations Research in Health Care, Vienna, Austria, May 13.
- K.96. Rauner, M.S., Bauerstätter, J., Schaffhauser-Linzatti, M.M., Wittig, K., Mayer, B. (2013) *Consequential costs of occupational accidents from an economic and managerial perspective*, International Atlantic Economic Conference, Vienna, Austria, April 3-6.
- K.95. Rauner, M.S., Schaffhauser-Linzatti, M.M., Bauerstätter, J. (2012) *Prevention programs for occupational injuries: cost analysis and targeted resource allocation*, 38th meeting of the European Working Group on OR Applied to Health Services, Enschede, The Netherlands, July 15-20.
- K.94. Niessner, H., Rauner, M.S. (2012) *Online Scheduling of Ambulance Services at Disaster Sites*, meeting of the Austrian Working Group on Operations Research in Health Care, Vienna, Austria, April 23.
- K.93. Niessner, H., Rauner, M.S., Leopold-Wildburger, U., Peric, N., Herdlicka, T. (2012) *Online scheduling of ambulance services at disaster sites using a policy simulator: experimental analysis of players' strategies and success*, Conference MUC12 of GOR-Working Group "Simulation and optimization of complex systems" - "Fuzzy systems, neuronale networks und artificial intelligence" together with Siemens AG, Corporate Technology, Germany, Munich, February 23-24.
- K.92. Rauner, M.S., Niessner, H., Leopold-Wildburger, U., Peric, N., Herdlicka, T. (2011) *How do best manage ambulance services at a disaster site? Experimental analysis of players strategies and success*, 37th meeting of the European Working Group on OR Applied to Health Services, Cardiff, Great Britain, July 24-29.
- K.91. Rauner, M.S., Niessner, H., Leopold-Wildburger, U., Peric, N., Herdlicka, T. (2011) *A disaster planning management game for ambulance services: experimental analysis of players strategies and success*, OR 2011, International Conference on Operations Research, Zurich, Switzerland, August, 30 - September 2.
- K.90. Schaffhauser-Linzatti, M.-M., Rauner, M.S., Blaschke, S., Eder, N., Kolesnik, M. (2011) *Strategic controlling in Viennese hospitals: a statistical analysis*, OR 2011, International Conference on Operations Research, Zurich, Switzerland, August, 30 - September 2.
- K.89. Rauner, M.S. (2010) *Das Gesundheitswesen: Balanceakt zwischen Wirtschaftlichkeit und Menschlichkeit*, 1.MTD-Forum, Vienna, Austria, November 5.
- K.88. Rauner, M.S., Niessner, H., Schaffhauser-Linzatti, M.M. (2010) *A DES-based decision support system for disaster planning of ambulance services*, Operations Research 2010, International Scientific Annual Conference, Munich, Germany, September 1-3.
- K.87. Rauner, M.S., Niessner, H. (2010) *Disaster planning for ambulance services: a DES-based decision support system*, EURO international meeting, Lisbon, Portugal, July 11-14.
- K.86. Niessner, H., Rauner, M.S. (2010) *Simulation einer Sanitaetshilfsstelle bei einem Massenanfall von Verletzten*, meeting of the Austrian Working Group on Operations Research in Health Care, Vienna, Austria, June 9.

- K.85. Rauner, M.S. (2010) *Gesundheitstechnologiebewertung (Health Technology Assessment) im Pharmabereich*, Market Access, Vienna, Austria, May 25.
- K.84. Rauner, M.S. (2010) *Ausblick: Wie geht's weiter? Fusionen und Schließungen von Krankenhaeusern in Oesterreich aus gesundheitsoekonomischer Sicht*, Die Spital 2010, Vienna, Austria, May 4.
- K.83. Rauner, M.S. (2010) *Benchmarking im Gesundheitswesen - Wie Effizienz von Spitaelern am Besten miteinander verglichen werden kann & Vernuenftige Vergleichsstudien kennen und interpretieren lernen*, Die Spital 2010, Vienna, Austria, May 4.
- K.82. Rauner, M.S., Kraus, M. (2009) *Operations research and management games with a special focus on health care games*, 10th International Symposium on Operations Research in Slovenia, Nova Gorica, Slovenia, September 23-25.
- K.81. Rauner, M.S., Kraus, M., Gesselbauer, J., Schwarz, S., Panosch, B. (2009) *The potential of health care games for teaching and policy desicion making*, 35th meeting of the European Working Group on OR Applied to Health Services, Leuven, Belgium, July 12-15.
- K.80. Rauner, M.S., Kraus, M., Schwarz, S., Gesselbauer, J., Panosch, B. (2009) *The role of health care management games for teaching and policy decision making*, EURO international meeting, Bonn, Germany, July 5-8.
- K.79. Rauner, M.S., Gutjahr, W., Heidenberger, K., Wagner, J., Pasia, J. (2008) *Optimizing screening strategies for chronic disease from a dynamic angle*, INFORMS annual meeting, Washington, USA, October 12-15.
- K.78. Rauner, M.S., Schaffhauser-Linzatti, M.-M., Zeileis, A. (2008) *Incentives of the Austrian performance-oriented reimbursement system on the treatment of patients with knee-joint problems*, Operations Research 2008, International Scientific Annual Conference, Augsburg, Germany, September 3– 5.
- K.77. Rauner, M.S., Schaffhauser-Linzatti, M.-M., Zeileis, A. (2008) *Incentives of the Autrian performance-oriented reimbursement system on the treatment of patients with knee-joint problems*, 34th meeting of the European Working Group on OR Applied to Health Services, Toronto, Canada, July 28 – August 1.
- K.76. Rauner, M.S. (2008) *Empowerment of performance assessment and quality by using hospital games, An internet-based multiple hospital game for policy making and teaching*, 2nd International WHO Conference on the Performance Assessment Tool for Quality Improvement in Hospitals, Vienna, Austria, July 3-4.
- K.75. Rauner, M.S., Schaffhauser-Linzatti, M.-M. (2008) *Steuerung und Kontrolle mittels neuer Instrumente der Krankenhausfinanzierung*, 8. Internationales NPO-Forschungscolloquium, Linz, Austria, April 17-18 (sponsored talk, invited by Prof. Dr. Reinbert Schauer)
- K.74. Rauner, M.S., Schaffhauser-Linzatti, M.-M., Zeileis, A. (2008) *Anreizwirkungen der Österreichischen Leistungsorientierten Krankenhausfinanzierung auf die Behandlung von stationären Patienten mit Binnenschädigungen des Kniegelenks*, Arbeitsgruppentreffen der Deutschen Arbeitsgruppe "Health Care Management", Frankfurt, Germany, February 29.
- K.73. Rauner, M.S. (2008) *Operations Research Applied to Health Services: Challenges for the 21st Century*, OR Seminar, Koc University, Istanbul, Turkey, January 11. (sponsored talk, invited by Prof. Evrim Gunes)
- K.72. Rauner, M.S. (2007) *Operations Research Applied to Health Services: Challenges for the 21st Century*, "OR in Healthcare" Conference, University of Twente, Enschede, The Netherlands, November 19-20. (sponsored talk, invited by Prof. Dr. Erwin Hans)
- K.71. Rauner, M.S., Gutjahr, W., Heidenberger, K., Wagner, J., Pasia, J. (2007) *Chronic disease policy modeling: Metaheuristic-based identification of pareto-optimal screening strategies*, Operations Research 2007, International Scientific Annual Conference, Saarbruecken, Germany, September 5-7.

- K.70. Rauner, M.S., Kraus, M., Gesselbauer, J., Schwarz, S. (2007) *Challenges for operations research applied to health services*, Assoziatione Italiana di Ricerca Operativa "Optimization and Decision Sciences" Conference 2007, Genova, Italy, September 5-8. (sponsored talk, invited by Professor Dr. Anna Sciomachen/Professor Dr. Angela Testi)
- K.69. Rauner, M.S., Kraus, M., Gesselbauer, J., Schwarz, S. (2007) *Using operations research techniques for internet-based hospital games*, 33rd meeting of the European Working Group on OR Applied to Health Services, St. Etienne, France, 15-20.
- K.68. Rauner, M.S., Gutjahr, W., Heidenberger, K., Wagner, J., Pasia, J. (2007) *Dynamic policy modeling for chronic diseases: Metaheuristic-based identification of pareto-optimal screening strategies*, EURO international meeting, Prague, Czech Republic, July 8-11.
- K.67. Kraus, M., Gesselbauer, J., Rauner, M.S., Schwarz, S. (2007) *An internet-based hospital game to improve resource allocation*, EURO international meeting, Prague, Czech Republic, July 8-11.
- K.66. Rauner, M.S., Kraus, M., Gesselbauer, J., Schwarz, S. (2007) *The challenge of internet-based hospital management games for teaching and research*, Internationale MUC01-Konferenz, Entscheidungsunterstützung und Optimierung in komplexen Situationen und vernetzten Systemen, University of the Armed Forces, Munich-Neubiberg, Germany, March 5-7.
- K.65. Rauner, M.S. (2007) *Dynamische Dienstzuteilung von Pool-Krankenschwestern mit Hilfe von Ant Colony Optimization*, Albert-Ludwigs-University Freiburg, Business Administration Seminar Department II, Lecture, Freiburg, Germany, January 30. (sponsored talk, invited by Professor Dr. Dieter Tscheulin)
- K.64. Rauner, M.S., Kraus, M., Gesselbauer, J., Schwarz, S. (2006) *The role of hospital games: Implications for teaching, research, and policy making*, Biennial Beta Conference 2006, Management of Service Operations, Eindhoven, The Netherlands, September 14-15. (sponsored talk, invited by Professor Dr. Erwin Hans)
- K.63. Rauner, M.S., Gutjahr, W.J. (2006) *Using an ACO algorithm to solve a dynamic regional nurse-scheduling problem in Austria*, Operations Research 2006, International Scientific Annual Conference, Karlsruhe, Germany, September 6-8.
- K.62. Kraus, M., Gesselbauer, J., Rauner, M.S., Schwarz, S. (2006) *The "COREmain hospital" game: implications for teaching, research, and policy making*, INFORMS international meeting, Hong Kong, China, June 25-28.
- K.61. Rauner, M.S., Behrens, D., Caulkins, J.P. (2006) *Modelling the spread of HCV via tattoo parlours: implications for public health interventions*, INFORMS international meeting, Hong Kong, China, June 25-28.
- K.60. Rauner, M.S., Heidenberger, K., Pesendorfer, E.-M. (2006) *Kosten-Wirksamkeit von Praeventionsmaßnahmen fuer den diabetischen Fuß*, Round-table Discussion, 8th annual meeting of the Austrian Society for Wound Treatment, Vienna, Austria, April 21-22.
- K.59. Rauner, M.S., Behrens, D., Caulkins, J.P. (2006) *War die Regulierung von Tattooshops eine kostenwirksame Maßnahme um die Ausbreitung von Hepatitis C in Wien einzudaemmen?*, meeting of the German Working Group on Operations Research in Health Care, Muenster, Germany, February 24.
- K.58. Rauner, M.S. (2006) *Vogelgrippe - Influenza-Pandemie - Mathematische Ausbreitungsmodelle*, Plattform for Health Economics, Vienna, Austria, January 12.
- K.57. Rauner, M.S., Gutjahr, W., Brailsford, S.C., Zeppelzauer, W. (2005) *A combined discrete-event simulation and ant colony optimisation approach for selecting optimal screening policies for diabetic retinopathy*, Operations Research 2005, International Scientific Annual Conference, Bremen, Germany, September 7-9.

- K.56. Rauner, M.S., Behrens, D., Caulkins, J.P. (2005) *Modelling the spread of hepatitis C via tattoo parlours: Implications for public health interventions*, Operations Research 2005, International Scientific Annual Conference, Bremen, Germany, September 7-9.
- K.55. Rauner, M.S., Gutjahr, W., Brailsford, S.C., Zeppelzauer, W. (2005) *A combined discrete-event simulation and ant colony optimisation approach for selecting optimal screening policies for diabetic retinopathy*, 31st meeting of the European Working Group on OR Applied to Health Services, Southampton, Great Britain, July 31 – August 5.
- K.54. Rauner, M.S. Schwarz, S., Kraus, M. (2005) *Competition under reimbursement systems: a management game via internet for hospitals (COREmain Hospital)*, Joint Workshop on DSS, Experimental Economics & e-Participation Graz, Austria, June 5-7.
- K.53. Rauner, M.S., Schwarz, S., Kraus, M. (2005) *Internet-basiertes Planspiel fuer Krankenhaeuser in Konkurrenzsituation (COREmain Hospital)*, Verein fuer Socialpolitik, Social Science Committee, Graz, Austria, April 28-30.
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- K.45. Rauner, M.S. (2004) *The principles of cost-effectiveness analysis and cost-benefit analysis*, 1st International HCTM PhD Workshop "Health Care Technology Assessment," Vienna, Austria, August 30-31.
- K.44. Gutjahr, W.J., Rauner, M.S. (2004) *An ACO algorithm for a dynamic regional nurse-scheduling problem in Austria*, 30th meeting of the European Working Group on OR Applied to Health Services, Stockholm, Sweden, June 27 - July 3.
- K.43. Rauner, M.S. (2004) *The principles of cost-effectiveness analysis and cost-benefit analysis*, Seminar Operations Research, Institute for Business Mathematics, Research Group Operations Research and Nonlinear Dynamic Systems, Technical University of Vienna, Austria, November 8.
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- K.32. Rauner, M.S., Bajmoczy, N. (2002) *How Many AEDs in Which Region? An economic decision model for the Austrian Red Cross*, 2nd international conference on the management of healthcare and medical technology on: the hospital of the future, bringing together technology, healthcare, and management, Stuart Graduate School of Business, Chicago, USA, July 28-30.
- K.31. Rauner, M.S., Brailsford, S.C., Flessa, S. (2002) *Using simulation to select affordable HIV/AIDS intervention programmes for developing countries*, 16th triennial conference of the International Federation of Operational Research Societies (IFORS), Edinburgh, Great Britain, July 8-12.
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- K.24. Rauner, M.S., Schaffhauser-Linzatti, M.-M., Leonard, K.J., Green, B. (2001), *Does funding policy impact on day of week admissions and separations of inpatients? A Austrian-Canadian comparison*, meeting of the German Working Group on Operations Research in Health Care, Trier, Germany, March 2.
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- K.20. Rauner, M.S., Brandeau, M.L. (2000) *AIDS policy modeling for the 21st century: an overview of key issues*, Medical Modeling Workshop, Stanford University, Stanford, USA, May 17.
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- K.15. Rauner, M.S. (1999) *Managing the AIDS epidemic in Vienna, Austria for the 21st century: the role of more costly advanced suppressors*, poster, Northern California Epidemiology Network, Inaugural Conference, San Francisco, USA, November 19.
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- K.10. Rauner, M.S. (1998) *The AIDS epidemic in Vienna - a challenge for prevention*, Wien Vital, international congress, planning health for the city - strategies, concepts, and experience, organized by WHO Project "Vienna - Healthy City," Vienna, Austria, October 8-9.
- K.9. Rauner, M.S., Linzatti, M.-M. (1998) *Evaluation of the new Austrian in-patient reimbursement system*, 24th meeting of the European Working Group on OR Applied to Health Services, Rome, Italy, July 19-24.
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- K.1. Gronalt, M., Guenther, H.-O., Roth, M. S. (1992) *Simulationsuntersuchungen zur Abstimmung von Produktions- und Transportlosgrößen in der Serienfertigung*, DGOR/OEGOR, joint annual meeting, Aachen, Germany, September 9-11.

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## N. Abbreviations

AIDS	Acquired Immunodeficiency Syndrome
AUVA	General Occupational Insurance Association
JCR	Journal Citation Report
CORS	Canadian Operational Research Society
DGOR	Deutsche Gesellschaft fuer Operations Research
EURO	Association for European Operational Research within IFORS
GMOEOR	Gesellschaft fuer Mathematik, Oekonomie und Operations Research
GOR	Gesellschaft fuer Operations Research
HIV	Human Immunodeficiency Virus
IFORS	International Federation of Operational Research Societies
KORMS	Korean Operations Research and Management Science Society
IMA	Institute of Mathematics and its Applications
INFORMS	Institute for Operations Research and the Management Sciences
ISI	Institute for Scientific Information
LKF	Leistungsorientierte Krankenhausfinanzierung
MHT	Management of Healthcare Technology
OEGOR	Oesterreichische Gesellschaft fuer Operations Research
ORAHs	Operations Research Applied to Health Services
SSCI	Social Science Citation Index
USA	United States of America
VHB-JOURQUAL 3	Verband der Hochschullehrer fuer Betriebswirtschaft – Journal-Qualitätsranking
WHO	World Health Organization