



# Curriculum Vitae

O.Univ.Prof. Dipl.-Ing. Dr.techn.

**Richard F. Hartl**

Chair of Production and Operations Management

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<http://prolog.univie.ac.at>

## Business Address and Phone

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## Personal data

Date of birth: September 15, 1956  
Place of birth: Vienna, Austria  
Citizenship: Austrian

## Education and Academic Degrees

1962-1966: *primary school* in Vienna  
1966-1974: *high school (Naturwissenschaftliches Realgymnasium)* in Vienna  
1974 - 1980: *studies of Technical Mathematics (Business Mathematics)* at the Vienna University of Technology  
1979: Masters degree (*Diplomingenieur*, Vienna University of Technology)  
1980: PhD (*Doktor der technischen Wissenschaften*, Vienna University of Technology)  
1987: Habilitation in the area of *Operations Research* (Vienna University of Technology)

## Academic data & Professional Experience

- 1980: IBM Austria: Trainee (*system engineer*)
- 1981: *Research Assistant* at the Institute for Operations Research (Prof. Feichtinger), Vienna University of Technology
- 1982: *Post doctoral fellow* at the Faculty of Management Studies (Prof. Sethi), University of Toronto, Canada
- 1983 - 1988: *Assistant Professor* at the Institute for Econometrics and Operations Research (Prof. Feichtinger), Vienna University of Technology
- 1989 - 3/1993: *Associate Professor (Tenure)* at the Institute for Econometrics, Operations Research and Systems Theory, Vienna University of Technology
- 4/1993 - 3/1995: *Full Professor* (Gründungsprofessur, C4) for *Betriebswirtschaftslehre*, Chair of Production and Investment, Faculty of Economics and Management, Otto-von-Guericke University of Magdeburg, Germany
- 10/1993 - 3/1995: *Vice Dean*, Faculty of Economics and Management, Otto-von-Guericke University, Magdeburg
- since 4/1995: *Full Professor* (O.Univ.Prof.) for *Betriebswirtschaftslehre*, Chair of Production and Operations Management, University of Vienna
- 12/2005 - 9/2008: *Head of Department* of Business Administration, University of Vienna, since 2008 *Vice Head of Department*
- 2009-2010 *Member of the "Curricularkommission"* of the University of Vienna; currently substitute member
- *Since 2010 Member of the Doctoral Advisory Boards of the PhD programs "Logistics and Operations Management" and "Management"*, University of Vienna
  
- various consulting projects

## Memberships in Scientific Societies

- ÖGOR (Österreichische Gesellschaft für Operations Research) Treasurer 1983-1988, President 1999-2003, advisory board since 2004
- GOR (Deutsche) Gesellschaft für Operations Research), member
- EU/ME (the European chapter on metaheuristics), board member
- VHB (Verband der Hochschullehrer für Betriebswirtschaft e.V.), member, member of executive board 2011-2012
- INFORMS, member
- IFORS, member of the Administrative Committee and treasurer from 2015

## Research Interests

- quantitative methods in production and operations management
- quantitative methods in transportation
- dynamics of the firm
- optimal control
- ant colony optimization
- logistics and SCM
- operations research methods and applications

## External Referee

- **Referee for various scientific journals** e.g.:  
*Management Science, Transportation Science, Marketing Science, Operations Research, Journal of Economics, Annals of Operations Research, European Journal of Operational Research, OR Spectrum, Operations Research Letters, Journal of Economic Dynamics & Control, International Journal of Production Research, International Journal of Production Economics, Informa Journal on Computing, Naval Research Logistics, Journal of Heuristics, Journal of Scheduling, Computers & Operations Research, Networks, Omega, Journal of Optimization Theory and Applications, Journal of Global Optimization, International Journal of Operations Research, Central European Journal of Operational Research, Transportation Research B, C and E, IEEE Transactions on Evolutionary Computation, Journal of Environmental Economics and Management, Journal of Mathematical Analysis & Applications, Journal of Mathematical Economics, Optimal Control Applications & Methods, Automatica, Applied Mathematics & Computation, Business Research, Journal für Betriebswirtschaft, ZfB, EURO Journal on Computational Optimization, Flexible Services and Manufacturing,*
- **Referee for the following organizations**  
*NSF - National Science Foundation*  
*NSERC - Natural Sciences and Engineering Research Council of Canada*  
*FWO - Member of expert panel G&M2 - Belgium*  
*FNRS - Fonds National de la Recherche Scientifique - Belgium*  
*DFG - German Research Foundation*  
*Rijkswaterstaat/Waterdienst - Netherlands*  
*EURO - EURO excellence in practice award - Committee member 2012*  
*EURO - EURO doctoral dissertation award - Committee member 2015*  
*EURO - EURO doctoral dissertation award - Committee member 2016*  
*EURO - EURO doctoral dissertation award - Chair 2018*  
*INFORMS - TSL Lifetime Award - Committee 2013*  
*ÖAD - Austrian agency for international mobility*  
*Jubiläumsfonds der ÖNB - Austria*

- **Referee for the following universities** (other than for PhD theses)  
*University of Hamburg, Mainz University, University of Bielefeld (Germany),  
Hasselt Hamburg, KU Leuven, University of Antwerp (Belgium),  
AUEB - Athens University of Economics and Business (Greece)  
Queen Mary and Westfield College, London (England)  
WU Wien, TU Wien, Johannes Kepler Universität Linz (Austria)  
Sabanci University (Turkey),  
United Arab Emirates University (UAE),  
Loyola University Chicago (US)*
- **External Referee for PhD theses at the following universities**  
*Tilburg University, Maastricht University (Netherlands)  
OvG University Magdeburg (Germany)  
Johannes Kepler Universität Linz, TU Wien (Austria)  
Università della Svizzera italiana in Lugano (Switzerland)*

## Recent Research Grants

- Project Coordinator of Initiative F01005 on "Artificial Factory" of the special research project (SFB 10) "Adaptive Information Systems and Modelling in Economics and Management Science" financed by FWF. (1997-2003)
- Coordinator of project 8630 on "Ressourcenmanagement im Transport" financed by Jubiläumsfonds der Österreichischen Nationalbank (ÖNB) (2001-2003)
- Coordinator of project GL2-15 on "Optimierung der Blutkonservenlogistik für das österreichische Rote Kreuz" within the program „green logistics“ financed by BMVIT (2003-2004)
- Coordinator of project "04-PS-compsci-726-23" on "Automated system for optimal management of technogene resources and environmental protection in ore-mining-processing industry" financed by Armenian National Science and Education Fund (ANSEF) 2004.
- Coordinator of project "WIGEODIRECT" financed by WiGeoGIS Wien (2004-2005)
- Coordinator of project 11187 on "Inventory Routing" "Jubiläumsfonds der ÖNB" (2005-2007)
- Coordinator of project AL0028611/21 on "Ambulance Routing - Emergency Service and Dial-a-Ride" financed by FWF (2006-2008)
- Coworker of project "Disaster Relief" financed by FWF Translational Research (since 2006)
- Coworker of project "Vehicle Routing Problems with Loading Constrains" financed by Jubiläumsfonds der ÖNB (2006-2008)
- Coworker of project 814299 on "TPA - Tourenplanung für Außendienstmitarbeiter" financed by FFG Brigde (2007-2008) - coordinator of project part Univ Vienna
- Coworker of project L362\_N15 on "Disaster Relief Operations Planning - Location Routing Problems under Uncertainty" financed by FFG Translational Reseach (since 2007)
- Coworker of project P20342\_N13 on "Matheuristics" financed by FWF (since 2008)
- Coordinator of project part UniVie of project 814323 on "VPR - Vorausschauende Produktionsregelung in Walzwerken" financed by FFG Brigde (since 2008)

- Coordinator of project part UniVie of project 813760 on "Nachhaltige Produktionsregelung" financed by FFG (since 2008)
- Coordinator of project L510\_N13 on "Tageszeitabhängige Reisezeiten in Standort und Tourenplanung" financed by FWF (since 2008)
- Coordinator of project part UniVie of project 820708 on "ServicePLAN – Optimierungsverfahren für die robuste Tourenplanung in der Service-Industrie" financed by FFG IV2Splus (since 2008)
- Coordinator of project part UniVie of project 818059 on "TFB - Tourenplanung für Fertigbeton-Fahrmischer" - financed by FFG BRIGDE (since 2008)
- Coordinator of project part UniVie of project L628N15 on "RACE: Tuning for Metaheuristics in Vehicle Routing" financed by FWF Translational
- Coordinator of project 818058 on „MOP: Müllentsorgungsoptimierung – Rahmentourenplanung für die Müllentsorgung bei Sammelstellen“, financed by FFG Basis
- Coordinator of project part UniVie of project L510N13 on "FCD-Route: Integrating Floating Car Data and Time-dependent Travel Times " financed by FWF-Translational
- Coordinator of project part UniVie of project 834868 "VECEPT: All Purpose Cost Efficient Plug-In Electric (Hybridized) Vehicle " financed by FFG / Klimafonds, 2012-2016
- Collaborator within project P 27858-G27 on " FEAT: Fair and Efficient Allocation of Transportation" financed by FWF, 2015-2017

## Program Committee Memberships

List of recent conferences:

- ANTS 2004: Fourth International Workshop on Ant Colony Optimization and Swarm Intelligence, Bussels
- PPSN 2004: Parallel Problem Solving From Nature, Birmingham
- GECCO 2005: Genetic and Evolutionary Computation Conference, Washington D.C.
- MIC 2005: 6th Metaheuristics International Conference, Vienna
- ANTS 2006: Fifth International Workshop on Ant Colony Optimization and Swarm Intelligence, Bussels
- EvoCOP 2006: Evolutionary Computation in Combinatorial Optimization, Budapest
- GECCO 2006: Genetic and Evolutionary Computation Conference 2006, Seattle
- PPSN 2006: Parallel Problem Solving From Nature, Reykjavik
- EvoCOP 2007: Evolutionary Computation in Combinatorial Optimization, Valencia
- GECCO 2007, Genetic and Evolutionary Computation Conference 2007 London.
- LMN 2007: Logistics and Manufacturing Networks, Seoul, Korea (international advisory board)
- MIC 2007: 7th Metaheuristics International Conference, Montreal
- SLS 2007: Engineering Stochastic Local Search Algorithms, Brussels
- SNLM 2007: Supply Network and Logistics Management, St.Leon-Rot
- ANTS 2008: Sixth International Conference on Ant Colony Optimization and Swarm Intelligence, Brussels
- EvoCOP 2008: Evolutionary Computation in Combinatorial Optimization, Napoli
- IT-based Planning and Control of Seaport Container Terminals and Freight Transportation Systems, Bremen, 2008
- Matheuristics 2008, Bertinoro, Italy.
- EvoCOP 2009: Ninth European Conference on Evolutionary Computation in Combinatorial Optimization, Tübingen, Germany
- GECCO 2009, Genetic and Evolutionary Computation Conference 2009 Montreal.
- HICSS-42: Hawaii International Conference On System Sciences, January 2009, Hawaii.
- LION 3: Learning and Intelligent Optimization 2009, Trento, Italy

- LM 2009: Logistik Management, Hamburg
  - MIC 2009: 8th Metaheuristics International Conference, Hamburg
  - SLS 2009: Engineering Stochastic Local Search Algorithms, Brussels
  - VVW 2009: Viennese Vintage Workshop, Vienna
  - WI 2009: 9. Internationale Tagung Wirtschaftsinformatik, co-chair of stream „Service-, System- und Prozessmanagement in Transport und Logistik“, Vienna
  - 2<sup>nd</sup> Workshop on IT-based Planning and Control of Container Terminals and Transportation Systems, Busan, Korea, 2010
  - ANTS 2010: Seventh International Conference on Ant Colony Optimization and Swarm Intelligence; Brussels
  - EvoCOP 2010: Evolutionary Computation in Combinatorial Optimization, Istanbul
  - GECCO 2010: Genetic and Evolutionary Computation Conference; Portland
  - HICSS-43, 2010; Hawaii International Conference on System Sciences, Hawaii
  - ICOTA 8: 8th International Conference on Optimization: Techniques and Applications, Shanghai, 2010
  - LION 4, Learning and Intelligent Optimization 2010, Venice
  - Matheuristics 2010, Vienna
  - MKWI 2010, Multikonferenz Wirtschaftsinformatik, Göttingen
  - TRISTAN VII (2010) Triennial Symposium on Transportation Analysis; Tromsø
  - LION 5, Learning and Intelligent Optimization 2011, Rome
  - EURO 2012 Vilnius
  - 12-th Viennese Workshop on Optimal Control, Dynamic Games and Nonlinear Dynamics, Vienna
  - International Conference on Logistics and Maritime Systems (LOGMS), Bremen, Germany, August 22-24, 2012
  - Matheuristics 2012, Angra dos Reis, Brazil
  - 2nd International Conference on Variable Neighborhood Search Metaheuristic 2012, Herceg Novi, Montenegro
  - EvoCOP 2012: Evolutionary Computation in Combinatorial Optimization, Malaga
  - ICOTA-9: 9th International Conference on Optimization: Techniques and Applications, Taipei, Taiwan, 2013
  - CIPLS 2013: 2013 IEEE Symposium on Computational Intelligence in Production and Logistics Systems, 2013, Singapore
  - 10th Metaheuristics International Conference (MIC2013) will take place in Singapore, from August 5 to 8, 2013
  - LION 7: Learning and Intelligent Optimization Conference, Catania - Italy, 2013
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- IWSPE: 18th International Working Seminar on Production Economics, Innsbruck, 2014
  - European Conference on Information Systems (ECIS 2014), AE of track "Business Analytics, Big Data and Decision Support"
  - META'2014: 5th International Conference on Metaheuristics and Nature Inspired Computing, META'2014, Marrakech, Morocco, October 2014
  - 3<sup>rd</sup> International Conference on Variable Neighborhood Search, VNS, Djerba, October 2014.
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- 9<sup>th</sup> Workshop on Logistics and Supply Chain Management, Berkeley, California, October 5 – 7, 2015
  - INFORMS-TSL Workshop 2015, Berlin, Germany, July 2015
  - MIC 2015: 11th Metaheuristics International Conference, Agadir, Morocco, June 2015.
  - ICCL 2015: 6th International Conference on Computational Logistics, Delft, Netherlands, September 2015
  - INCOM 2015: IFAC Symposium on Information Control in Manufacturing, Ottawa, Canada, May 2015



- Odysseus 2015: international, triennial workshop on Freight Transportation and Logistics, Ajaccio, France, June 2015
- EvoCOP 2015: 15th European Conference on Evolutionary Computation in Combinatorial Optimisation, Copenhagen, Denmark, April 2015
- MOD 2016: Second International Workshop on Machine Learning, Optimization and Big Data, Volterra, Italy, August 2016
- ICCL 2016: 7th International Conference on Computational Logistics, Lisbon, Portugal, September 2016
- IFAC MIM 2016, June 2016, Coorganizer of Invited Session "Control approaches to supply chain analytics, scheduling, and discrete systems"
- IWSPE: 19th International Working Seminar on Production Economics, Innsbruck, February 2016
- EvoCOP 2016: Evolutionary Computation in Combinatorial Optimization, Porto, Portugal, March 2016
- Multikonferenz Wirtschaftsinformatik MKWI, Ilmenau, Germany, März 2016
- 4<sup>th</sup> International Conference on Variable Neighborhood Search, VNS, Malaga, October 2016.
- EURO Poznan, July 2016, Stream Organizer "Matheuristics"

## Conferences Organized

- Verolog 2015: fourth meeting of the EURO Working Group on Vehicle Routing and Logistics Optimization, Vienna, June 2015.
- Matheuristics 2010, Vienna, June 28–30, 2010
- >MIC2005«Vienna<  
6th Metaheuristics International Conference, Vienna, August 22-26, 2005
- Eighth Viennese Workshop on Optimal Control, Dynamic Games and Nonlinear Dynamics, Vienna , May 14-16, 2003
- Seventh Viennese Workshop on Optimal Control, Dynamic Games and Nonlinear Dynamics, Vienna , May 24-26, 2000
- Sixth Viennese Workshop on Optimal Control, Dynamic Games, Nonlinear Dynamics and Adaptive Systems, Vienna, May 21-23, 1997

## Conference Presentations & Invited Talks

- More than 80 Conference Presentations and Invited Talks at various institutions; see:  
<http://prolog.univie.ac.at/research/presentations/hartl.html>

## Journal Editorship

- *Transportation Science*  
Associate Editor since 2012/07  
<http://www.informs.org/Pubs/TranSci>
- *EURO Journal on Transportation and Logistics*  
Editorial board since 2011  
<http://www.springer.com/13676>
- *OR Perspectives*  
Associate Editor since 2013  
<http://www.journals.elsevier.com/operations-research-perspectives>
- *BuR - Business Research*  
Editorial board since 2007  
<http://www.business-research.org/>
- *Central European Journal of Operations Research*  
Member of Editorial Board  
<http://www.springer.com/business/operations+research/journal/10100>
- *Swarm Intelligence*  
Editorial board since 2007  
<http://www.springer.com/computer/artificial/journal/11721?detailsPage=editorialBoard>

Past:

- *Journal of Economic Dynamics and Control*  
Associate Editor 2008-2015, Outstanding referee award 2008  
<http://www.jedc.com/aes.html>
- *OR-Spektrum*  
Editorial Board from 1997 – 2002, Advisory Board 2003 - 2012  
<http://www.springer.com/business/operations+research/journal/291?detailsPage=editorialBoard>
- *Optimal Control, Applications and Methods*  
Subject Editor 2005 - 2007, Editorial Board 2008 - 2009  
<http://www3.interscience.wiley.com/cgi-bin/jabout/2133/EditorialBoard.html>
- *Journal of Industrial and Management Optimization*  
Associate Editor 2007-2010  
<http://aimsciences.org/journals/jimo/>

## Publications

- 1 monograph, 15 edited volumes or special issues of international scientific journals
- More than 200 papers in refereed international scientific journals such as *Management Science*, *Transportation Science*, *SIAM Review*, *Journal of Economic Theory*, *Journal of Economics*, *Annals of Operations Research*, *European Journal of Operational Research*, *OR Spectrum*, *Journal of Economic Dynamics & Control*, *International Journal of Production Research*, *International Journal of Production Economics*, *Production and Operations Management*, *Journal of Heuristics*, *Journal of Optimization Theory and Applications*, *Computers & Operations Research*, *Networks*, *Omega*, *Journal of Environmental Economics and Management*, *Journal of Mathematical Analysis & Applications*, *Journal of Mathematical Economics*, *Optimal Control Applications & Methods*, *Mathematical Social Sciences*, and others  
see <http://prolog.univie.ac.at/research/publications/hartl.html>



### **Citations as of August 3, 2016:**

- Citations according to [Scopus](#):
  - Harzing's h-index is 26
  - Total number of citations is 3509
- Citations based on Google Scholar ([Harzing's publish or perish](#)):
  - Harzing's h-index is 44.
  - Total number of citations is 10400

### **Erdős number: 3;**

see <http://prolog.univie.ac.at/hp/hartl/Hartl-Erdos.htm>

## Prices, Awards, Honours

- Senior Extramural Fellow of the Center for Economic Research (CentER), University of Tilburg  
<http://center.uvt.nl/about/posextra.html>
- According to the 2012 German [Handelsblatt](#) (based on international top publications) he is ranked #7 among all 2100 German, Austrian and Swiss Professors in Business Administration  
In the previous ranking in 2009 he was ranked #5  
He is ranked #1 among all Professors in Production, Transportation and Operations Research
- 2009 and 2011: best lecturer award of the Faculty of Business, Economics and Statistics (best undergraduate course)
- [UNIVIE Teaching Award 2014](#) for best undergraduate course
- Member of [Mensa Austria](#) (3 standard deviations above average)

## Alphabetic Coverage of Coauthors

see: <http://prolog.univie.ac.at/hp/hartl/CoautHa.pdf>

## Selected Placing Achievements (Former PhD-Students & Post-Docs)

- Prof. Dr. Christian Almeder, **Full Professor**, Frankfurt/Oder, Germany
- Dr. Bernd Bullheimer, **CEO** la Cour Holding GmbH, Germany
- Prof.Dr. Herbert Dawid, **Full Professor** "Economic Policy", Department of Economics, University of Bielefeld, Germany
- Univ.Prof. Dr. Karl Dörner, **Full Professor**, Universität Wien, Austria
- Dr. Günther Füllerer, Strabag, Austria
- Univ.Prof. Dr. Manfred Gronalt, **Full Professor**, Universität für Bodenkultur, Vienna, Austria
- Dr. Günter Kiechle, **CEO** (Geschäftsführer), CAPLAS GmbH
- Dr. Alexander Ostertag, **CEO** (Geschäftsführer), Kühr GmbH
- Univ.Prof. Dr. Sophie Parragh, **Full Professor**, Johannes Kepler Universität Linz
- Dr. Franz Piller, former CEO, BOC Information Technologies Consulting GmbH, now **Professor at FH Krems**
- Dr. Rapeepan Pitakaso, **Assoc. Prof.**, Ubonratchathani University
- Dr. Michael Polacek, **CEO**, Jager & Polacek Data Services
- Univ.Prof.Dr. Marc Reimann, **Full Professor**, Karl Franzens University, Graz, Austria
- Prof. Dr. Stefan Wielenberg, **Full Professor**, Leibniz University Hannover, Germany

## Public Relations

- 19.4.2010: interview for science.ORF.at: FAQs zur Vulkanaschewolke
- 25.02.2010: interview in Handelsblatt: Woran arbeiten Sie denn gerade, Herr Hartl?
- 01.2010: interview in "tomorrow today 02-2010": Verbesserungsmodelle in der Tourenplanung; im Zusammenhang mit Projekt „HealthLog“
- 27.3.1998: Modern Times *ORF2* (Austrian Public TV): Optimierung durch Ameisen
- 29.9.-1.10.1998: *LOG-NET: Internationale Fachmesse & Kongreß für ganzheitliche Logistik, Verkehr und Transport* (Messegelände Wien), Organisation der Koje der Uni Wien am Stand der Bundesvereinigung Logistik: Ausbildung
- 18.-22.6.1989: *Internationale Wissenschaftsmesse "World-Tech-Vienna"* (Austria Center Vienna) Exhibit Nr. 3225 on: "Heuristische Verfahren in der kombinatorischen Optimierung - insbesondere Kraftwerkseinsatzplanung"
- 1.11.1989: *Wissen Aktuell ORF FS2: Mathematik der Vampire* (presented by A. Mehlmann on the basis of joint publications)



# Teaching Experience

Courses taught on various topics at the following institutions:

<i>University</i>	<i>Year</i>	<i>Courses</i>
Vienna University of Technology, Austria	1982 to 1993	Operations Research, allgemeine Betriebswirtschaftslehre (Business Economics), Stochastic Models, Non-Differentiable Optimization, Cutting and Packing,
University of Economics in Vienna, Austria	1991 to 1993	Neural Networks and Heuristics
University of Vienna, Austria	1992 to 1993 and since 1995	Operations Research, Introduction to Production and Operations Management, Production and Operations Management II, Advanced Topics in Production and Operations Management I, II and III, Case Studies, Heuristics in Production and Operations Management, Factory Physics, Assembly Line Balancing, Efficient Consumer Response (ECR), Supply Chain Management, Warehousing, Metaheuristics, Operations Management, Transportation Logistics, Harbor Logistics, DEA, Cutting and Packing, Arc Routing Problems, Production management, Scheduling, Intermodal Transportation, SCM, PhD Course on Optimal Control, Layout & design
Otto-von-Guericke University in Magdeburg, Germany	1993 to 1995	Business Economics for Engineers II, Introduction to Production, Production I and II, Dynamic Models (optimal control), Cutting and Packing, Non-Linear Optimization, MCDM, NLDS and Chaos, Case Studies, Neural Networks
Russian-German High School of Administration, hosted by the Academy of National Economy, Moscow	1994 to 1997	Production I, Logistics
Lauder Business School — Vienna International College	2005/2006	EBM 301: Production and Operations Management

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