

CURRICULUM VITAE
SIEGFRIED SCHAIBLE

PERSONAL

Business Address:
Department of Applied Mathematics
Chung Yuan Christian University
Chung-Li, 32023 Taiwan
886-3-2653101 (Tel.)

Home Address:
1110 Via Pintada
Riverside, CA 92507 U.S.A.

Born: August 18, 1940
Marburg, Germany

Nationality: Canadian
Permanent Resident U.S.A.

Title: Chair Professor
& Professor Emeritus, Step 9
University of California,
Riverside, U.S.A.

Marital Status: Widowed
Three Children, Four Grandchildren

EDUCATION

- 1978 Habilitation in Operations Research, Faculty of Business and Economics, Köln/West Germany
(This degree is required for a professorship at a German university; it involves a thesis after the Ph.D.)
- 1971 Doktor in Mathematics (Ph.D.), Köln/W. Germany
- 1967 Diplom in Mathematics/Physics (M.Sc.), Mainz/W. Germany
- 1962 Vordiplom in Mathematics/Physics, Marburg/W. Germany

I received my education up to the Ph.D. from schools and universities in West Germany. After obtaining the Ph.D., I worked towards an advanced degree (Habilitation). The research was done partially at Stanford University (1974-76). After completing this advanced degree required for a professorship in Germany, I was recommended for a full professorship in Germany. However during my stay at Stanford, I had come to appreciate the advantages of many North American universities over German universities, in particular the greater emphasis of and opportunities for research and the more effective ways of teaching. Therefore, I did not stay in Germany. Instead, I joined the University of Alberta as a (tenured) full professor in 1979. In 1985 I became a Canadian citizen, together with my family.

While in Canada, I cooperated with several American scientists on various research projects. I also taught at Stanford University and Santa Clara University in order to strengthen my ties to American universities. I became increasingly aware of the great research potential of many universities in the US. Therefore, I welcomed the opportunity to teach and do research at the University of California, Riverside, extended to me in 1987.

EMPLOYMENT

- 2008-2011 Chair Professor, Department of Applied Mathematics,
Chung Yuan Christian University, Chung-Li, Taiwan
- 1987-2008 Full Professor (Step IX since 2000), Emeritus, Recall Retiree (2006-2008), The A. Gary
Anderson Graduate School of Management, University of California, Riverside,
California.
- 2007 (June) Visiting Professor, Facolta' di Economia, Universita' Cattolica, Piacenza, Italy.
- 2003,2004, Visiting Professor, Facolta' di Economia, University of Bergamo, Italy (short-term visit)
2005,2006,
2007,2008
- 2002 (July), Visiting Professor, National Center for Theoretical Sciences, National Tsinghua
2006 (Dec.) University, Hsinchu, Taiwan
- 2000 (Nov.), Visiting Professor, Facolta' di Economia e Commercio, Universita' di Pisa, Italy
2006 (June)
- 1997 (June) Visiting Professor, Department of Applied Mathematics, University of Clermont-Ferrand,
France
- 1997 (April) Visiting Professor, Istituto di Metodi Quantitativi, Universita' Bocconi, Milan/Italy.
- 1992 (April) Visiting Professor, Facolta' di Economia e Commercio, Universita' di Pisa, Italy.
- 1990 (summer)
1986 (spring) Visiting Professor, Department of Operations Research, Stanford University, CA.
1983 (summer)
- 1986 (summer) Visiting Professor, Department of Decision and Information Sciences, Leavey School of
Business and Administration, Santa Clara University, California.
- 1979-87 Full Professor, Department of Finance and Management Science, University of Alberta,
Edmonton/Canada.
- 1971-79 Akademischer Rat/Oberrat, Industrieseminar, Universität Köln, W. Germany.
- 1967-71 Wissenschaftlicher Assistant Industrieseminar (Abteilung Operations Research),
Universität Köln, W. Germany.
- 1966 Teaching Assistant, Institut fuer Angewandte Mathematik, Universitaet Mainz/W.
Germany.
- 1964 (fall) Computer Programmer, Zuse Corporation/W. Germany.

SELECTION OF COURSES DEVELOPED AND TAUGHT

Mathematics for Business, Economics, and Social Sciences I, II (2 semester course)

Quantitative Methods for Management (MBA-level)

Quantitative Methods for Economic Analysis (Ph.D.-level)

Operations Research I, II, III (3 semester course)

Introduction to Management Science

Models and Applications of Operations Research in Society

Introduction to Production and Operations Management

Deterministic Models in Management Science

Stochastic Models in Management Science

Advanced Courses in Mathematical Programming (particularly Linear and Nonlinear Programming and its applications).

HONORS

By invitation, in Marquis' "Who's Who in Science and Engineering", 10th edition, 2008-2009.

By invitation, in Marquis' "Who's Who in American Education", 7th, 8th edition, 2006-2008.

By invitation, in Marquis' "Who's Who in America", 58th edition, 2004; 59th edition, 2005; 60th edition, 2006; 61st edition, 2007.

Nominated for "Who's Who in Asia and Pacific Nations", International Biographical Centre, Cambridge/England, 4th edition, 1999, 5th edition, 2003.

By invitation, in "Outstanding People of the 20th Century", International Biographical Centre, Cambridge/England, 2nd edition, 1999.

Elected AAAS-Fellow of the American Association for the Advancement of Science, 1998.

By invitation, in "International Directory of Business and Management Scholars and Research," Harvard Business School Press, 1st edition, 1995, 2nd edition, 1996.

By invitation, in "Dictionary of International Biography," International Biographical Centre, Cambridge/England, 23rd edition, 1994; also in 24th, 25th, 26th and 28th edition.

Nominated for "500 Leaders of Influence," American Biographical Institute, 2nd edition, 1994.

Nominated for “5000 Personalities of the World,” American Biographical Institute, 3rd edition, 1991; also in 4th edition, 1994.

Nominated for “The International Directory of Distinguished Leadership,” American Biographical Institute, 3rd edition, 1991.

Nominated for “Who’s Who in California,” 19th edition, Who’s Who Historical Society, 1989; also in 20th, 25th, and 27th edition.

By invitation, biographical data entered in “International Who’s Who in Education,” International Biographical Centre, Cambridge, England, 3rd edition, 1987.

Nominee of Faculty of Business for University Research Prize of University of Alberta for 1986/87 (highest research award of U of A) (not received).

McCalla Research Professorship, Faculty of Business, University of Alberta, in 1981-82 (first faculty member to receive the award).

RESEARCH

2003, 2004, 2005, 2006, 2007, 2008

Facolta’ di Economia, University of Bergamo, Italy (short term visits).

2002, 2006

National Center for Theoretical Sciences, National Tsinghua University, Hsinchu, Taiwan (short-term visit)

1999, 2004, 2005, 2006, 2007

Department of Applied Mathematics, National Sun Yat-sen University, Kaohsiung, Taiwan (short-term visits).

1998

Faculty of Industrial Engineering and Management, Technion, Haifa, Israel (short-term visit).

1998

Departament d’Economia, Universitat Autònoma de Barcelona, Spain (short-term visit).

1995

Department of Mathematics, University of the Aegean, Samos/Greece (short-term visit).

1994, 1997, 2001, 2004

Institute of Econometrics and Mathematics for Economic Decisions, Catholic University, Milan, Italy (short-term visits).

1993, 1994, 1996, 1997

Department of Applied Mathematics, University of Clermont-Ferrand II/France (short-term visits).

1986 (summer) Department of Decision and Information Sciences, Santa Clara University.

1985, 1987, 1988, 1992, 1994, 2000, 2004, 2006

Facolta di Economia e Commercio, University of Pisa/Italy (short-term visits).

1982 (summer), 1983 (summer), 1986 (spring), 1990 (summer)
Department of Operations Research, Stanford University.

1978 (spring), 1979 (spring) (short-term visits)
Faculty of Industrial Engineering and Management, Technion/Israel;
Faculty of Management, Tel-Aviv University/Israel.

1974 (September) - 1976 (February)
Department of Operations Research, Stanford University.

1973 (fall) Department of Operations Research, Stanford University.

1970 (fall) Institut für Operations Research, Universität Zürich/Switzerland.

MEMBERSHIP

1974- Operations Research Society of America (ORSA), now INFORMS.

1973-85 The Institute of Management Sciences (TIMS), now INFORMS.

1991-96 TIMS College, "Location Analysis," now INFORMS Section.

1995- INFORMS Section, "Optimization".

1975-79 Society for Industrial and Applied Mathematics (SIAM).

1972- Mathematical Programming Society (MPS).

1977-82 Special Interest Group in Mathematical Programming (SIGMAP).

1981-87 Canadian Operational Research Society (CORS).

1972-79 Deutsche Gesellschaft für Operations Research (DGOR) (Germany).

1978-81 Gesellschaft für Mathematik, Oekonomie und Operations Research (Germany).
& 1991-97

1998- Gesellschaft für Operations Research (GOR) (Germany).

1991- Associazione per la Matematica Applicata alle Scienze Economiche e Sociali (AMASES)
(Italy).

1994- Working Group on Generalized Convexity (WGGC).

1998 - American Association for the Advancement of Science (AAAS).

2000 - Pacific Optimization Research Activity Group (POP).

PROFESSIONAL ACTIVITIES

REVIEWER

1979-92 Zentralblatt für Mathematik.
 1975- Mathematical Reviews (MR).
 1972-82 Internationaler betriebswirtschaftlicher Zeitschriftenreport (IbZ).

REFEREE

- 1972- • Operations Research
 • Mathematical Programming (Series A and Series B)
 • Linear Algebra and its Applications
 • Management Science
 • SIAM J. Applied Mathematics
 • J. of Optimization Theory and Applications
 • Canadian J. of Operational Research and Information Processing
 • J. of the Operational Research Society of India
 • Zeitschrift für Operations Research
 • Applied Mathematics and Computing
 • European J. of Operational Research
 • Naval Research Logistics Quarterly
 • Operations Research Spektrum
 • Mathematics of Operations Research
 • Zeitschrift für Angewandte Mathematik und Mechanik (ZAMM)
 • Utilitas Mathematica
 • Numerical Functional Analysis and Optimization
 • SIAM Review
 • SIAM J. Optimization and Control
 • SIAM J. Algebraic and Discrete Methods
 • Decision Science
 • Computing
 • SIAM J. Matrix Analysis and Applications
 • MIT Press
 • National Science Foundation (NSF)
 • Natural Sciences and Engineering Research Council (NSERC)
 • Annals of Operations Research
 • J. of Global Optimization
 • Optimization
 • J. of Mathematical Analysis and Applications
 • J. of Australian Mathematical Society
 • John Wiley & Sons
 • Kluwer Academic Publishers
 • Mathematical Methods of Operations Research
 • Historia Mathematica
 • Japan Journal of Industrial and Applied Mathematics
 • Taiwanese Journal of Mathematics

External Examiner for Ph.D., Department of Statistics, University of California, Riverside, 1996.

External Examiner for Ph.D., Department of Applied Mathematics, University of Clermont-Ferrand II/France, 1994.

External Examiner for Ph.D., Department of Economics, University of Calgary/Canada, 1982.

Assisted in the revision of the chapter on “Nonlinear Programming” for the 4th Edition of “Introduction to Operations Research” by Hillier/Lieberman, 1986 (one of the most widely-used texts).

EDITORIAL WORK

- 2004- Associate Editor of Journal of Industrial and Management Optimization (international journal, out of Hong Kong Polytechnic University).
- 2003- Associate Editor of Optimization (international journal, out of University of Karlsruhe, Germany).
- 2001- Associate Editor of Journal of Nonlinear and Convex Analysis (international journal, out of Tokyo Institute of Technology).
- 2001- Editorial Board of Optimization Research Bridge (ORB), the electronic newsletter of the Pacific Optimization Research Activity Group (POP) (out of Hong Kong Polytechnic University; now Shanghai University).
- 2001- Associate Editor of Nonlinear Analysis Forum (international journal, out of Kyungshung University, Pusan, South Korea).
- 1999- Associate Editor of Journal of Convex Analysis (international journal, out of Université de Montpellier, France).
- 1991- Associate Editor of Journal of Optimization Theory and Applications (international journal, out of Rice University, Houston, TX).
- 1990-2006 Associate Editor of Journal of Global Optimization (international journal, out of University of Florida).
- 1981-99 Associate Editor of Information Systems and Operational Research (INFOR) (Journal of Canadian Operational Research Society).
- 1981-85 Associate Editor of Opsearch (Journal of Operational Research Society of India).
- 1981-83 Advisory Editor of Operations Research Spektrum (Journal of the German Operations Research Society DGOR).
- 1980- Associate Editor of Zeitschrift für Operations Research (Germany); now ZOR-Mathematical Methods of Operations Research (international journal, out of University of Ulm, Germany).
- 1979- Co-editor of book series Mathematical Systems in Economics, Karlsruhe, Germany.

ACTIVITIES AT CONFERENCES

- 1977 Co-Director of Workshop on "Nonlinear Programming," Universität Köln, June 27-28.
- 1980 Co-Director of NATO Advanced Study Institute 80/7 on "Generalized Concavity in Optimization and Economics," University of British Columbia, August 3-15, (Budget: US \$50,000, mostly from NATO, Brussels).
- 1980 Director of Workshop on "Generalized Concavity," University of Alberta, Sept. 26-27.
- 1981 Chairman of Invited Session on "Generalized Convexity in Optimization," CORS/ORSA/TIMS-Meeting, Toronto, May 3-6.
- 1981 Invited chairman of session "Mathematical Programming," 9th International Conference on Operational Research (IFORS), Hamburg, July 20-24.
- 1981 Chairman of invited session on "Nonconvex Programming," ORSA/TIMS, Houston, October 11-14.
- 1981 Chairman of invited session on "Linear and Nonlinear Programming," ORSA/TIMS, Houston, October 11-14.
- 1982 Chairman of session on "Quasi-convexity," 11. Intern. Symposium on Mathematical Programming, Bonn, August 23-27.
- 1982 Chairman of invited sessions on "Nonlinear Programming I, II," ORSA/TIMS, San Diego, October 25-27.
- 1983 Chairman of invited session on "Nonlinear Programming," ORSA/TIMS, Chicago, April 25-27.
- 1983 Chairman of invited sessions on "Nonconvex Programming" and on "Nonlinear Programming," ORSA/TIMS, Orlando, November 7-9.
- 1984 Chairman of invited session on "Nonlinear Programming," ORSA/TIMS, San Francisco, May 14-16.
- 1984 Invited chairman of session on "Nonlinear Optimization," 9th Symposium Über Operations Research, Osnabrück, Germany, August 27-29.
- 1984 Chairman of invited session on "Nonlinear Programming," ORSA/TIMS, Dallas, November 26-28.
- 1986 Invited chairman of session on "Nonlinear Programming," ORSA/TIMS, Los Angeles, April 14-16.
- 1986 Invited chairman of session on "Nonlinear Programming," ORSA/TIMS, Miami Beach, October 27-29.

- 1988 Co-director of International Workshop on “Generalized Concavity, Fractional Programming, and Economic Applications,” University of Pisa/Italy (jointly with A.Cambini, Pisa, E. Castagnoli, Milano, L. Martein, Pisa, P. Mazzoleni, Verona), May 30 - June 1.
- 1988 Invited chairman of session on “Nonlinear Programming,” ORSA/TIMS, Washington, D.C., April 25-27.
- 1989 Invited chairman of session on “Nonlinear Optimization,” 14th Symposium on Operations Research, Ulm/West Germany, September 6-8.
- 1989 Invited chairman of session on “Nonlinear Programming Theory,” CORS/ORSA/TIMS, Vancouver, May 8-10.
- 1989 Co-Director of International Workshop on “Generalized Convexity and Fractional Programming,” Graduate School of Management, UC Riverside, October 9-10.
- 1991 Chairman of session at 16th Symposium on Operations Research, Trier/Germany.
- 1991 Invited chairman of cluster of sessions in “Continuous Optimization” (five invited and contributed sessions), ORSA/TIMS meeting, Anaheim, November 4-6.
- 1992 Chairman of session at 17th Symposium on Operations Research, Hamburg/Germany.
- 1992 Co-director of the “4th International Workshop on Generalized Convexity,” University of Pecs/Hungary (jointly with S. Komlosi, Pecs and T. Rapcsak, Budapest), Aug. 31-Sept. 2.
- 1993 Chairman of session at 18th Symposium on Operations Research, Köln/Germany.
- 1993 Invited chairman of cluster of sessions on “Nonlinear Programming” (twelve invited sessions), ORSA/TIMS meeting, Phoenix, Arizona, November 1-3.
- 1994 Chairman of cluster of sessions on “Generalized Convexity” (nine invited sessions) 15th International Symposium on Mathematical Programming, Ann Arbor, Michigan, August 15-19.
- 1995 Chairman of session at 3rd Workshop of “Mathematiques de l’Optimization et de la Decision (MODE),” Brest/France, March 23-25.
- 1995 Invited chairman of session on “Fractional Programming,” 1st INFORMS meeting (Institute for Operations Research and the Management Sciences), Los Angeles, April 23-26.
- 1995 Invited Chairman of cluster of sessions on “Nonlinear Programming,” 23rd International TIMS meeting, Singapore, June 25-28 (prepared cluster, but unable to attend due to lack of funding).
- 1996 Co-Director of “5th International Symposium on Generalized Convexity,” (jointly with J.P. Crouzeix, Clermont, J.E. Martinez-Legaz, Barcelona, A. Seeger and M. Volle, Avignon), Centre International de Recherches Mathematiques (CIRM), Luminy-Marseille/France, June 17-21. Also chairman of the Program Committee of the “5th International Symposium on Generalized Convexity.”

- 1996 Invited chairman of the cluster of sessions on “Generalized Convexity/Monotonicity” at ISORA ‘96, Second International Symposium on Operations Research and its Applications, Guilin/P.R. China, December 11-13.
- 1997 Invited chairman of session on “Generalized Convexity/Monotonicity,” INFORMS, San Diego, May 4-7.
- 1997 Co-Organizer of Workshop “Scheduling and Heuristic Search”, (jointly with B. Dodin and E. Rolland), Graduate School of Management, University of California, Riverside, May 8.
- 1997 Invited chairman of session at 16th International Symposium on Mathematical Programming, Lausanne, Switzerland, August 25-29.
- 1997 Invited chairman of cluster of sessions on “Nonlinear Programming,” INFORMS, Dallas, October 26-29.
- 1998 Invited cluster chair, INFORMS, Tel Aviv, June 28-July 1.
- 1998 Invited session chair, INFORMS, Seattle, October 25-28.
- 1999 Co-Director of “Summer School on Generalized Convexity/Monotonicity” and “6th International Symposium on Generalized Convexity/Monotonicity,” University of the Aegean, Samos/Greece, August 25 - September 3.
- 1999 Member of the Program Committee of “Global Optimization 1999”, Florence, Italy, September 28-October 3.
- 2000 Invited session chair, INFORMS, Salt Lake City, May 7-10.
- 2000 Invited cluster chair, 5th APORS meeting (Asian-Pacific Operations Research Societies), Singapore, July 5-7.
- 2000 Invited cluster co-chair, First Sino-Japan Optimization Meeting, Hong Kong, October 26-28.
- 2001 Invited cluster co-chair, International Conference on Optimization and Optimal Control, Tainan, Taiwan, June 1-4.
- 2001 Invited cluster chair, 34th Workshop: Optimization and Optimal Control with Applications, International School of Mathematics “G.Stampacchia”, Erice, Italy, July 9-17.
- 2001 Invited cluster chair, Institute for Operations Research and Management Sciences (INFORMS), Miami Beach, FL, Nov. 7-10.
- 2001 Invited cluster co-chair, 5th International Conference on Optimization Techniques and Applications (ICOTA), Hong Kong, December 15-17; also, invited member of the International Programme Committee.
- 2002 Co-Chair of the Program Committee, 7th International Symposium on Generalized Convexity/Monotonicity, Hanoi, Vietnam, August 27-31.

- 2002 Invited cluster co-chair, Second Japan-Sino Optimization Meeting, Kyoto, September 25-27.
- 2002 Invited cluster chair, Institute for Operations Research and Management Sciences (INFORMS), San Jose, CA, November 17-20.
- 2003 Invited cluster co-chair and member of the international program committee, 3rd International Conference on “Nonlinear Analysis and Convex Analysis” (NACA 3), Tokyo Institute of Technology, Japan, August 25-29.
- 2004 Invited cluster co-chair and member of the international program committee, 3rd International Conference on “Optimization and Control with Applications” (OCA 3), Chongqing and Chengdu, P.R. China, July 25-31.
- 2004 Invited cluster co-chair and member of the international program committee, 6th International Conference on Optimization Techniques and Applications (ICOTA 6), Ballarat, Australia, December 9-11.
- 2005 Member, International Scientific Committee, 4th International Conference on Nonlinear Analysis and Convex Analysis, Okinawa/Japan, June 30 –July 4.
- 2005 Program Committee, 8th International Symposium on Generalized Convexity/Monotonicity, Varese, Italy, July 4-8.
- 2005 Member, International Scientific Committee, International Conference on Nonlinear Analysis and Optimization with its Applications, Chung Li/Taiwan, September 30 – October 4.
- 2005 Member, International Scientific Committee, 3rd Sino-Japan Optimization Meeting in the E-Business Era, Singapore, October 31-November 2.
- 2006 Member, International Scientific Committee, INTAS Summer School on “Variational Inequalities and their Applications to Economic Equilibrium Problems”, University of Bergamo, Italy, June 5-9.
- 2008 Chair, Program Committee, 9th International Symposium on Generalized Convexity and Summer School on Generalized Convexity, Kaohsiung, Taiwan, July 21– 25.

POSITION IN PROFESSIONAL ORGANIZATIONS

- 2006-2008 Chair, “Working Group on Generalized Convexity” (WGGC).
- 2002-2003 Interim Chair, international “Working Group on Generalized Convexity” (WGGC).
- 1994-1997 Founding Chair, international “Working Group on Generalized Convexity” (WGGC).
- 1994-2008 Member, Scientific Committee of WGGC.
- 1995-1998 Chair, Subsection “Nonlinear Programming” of INFORMS section “Optimization”.

LECTURES

- 1972 5th Meeting on “Methods of Operations Research,” Oberwolfach/W. Germany.
- 1972 Annual Meeting of the German Society of Operations Research (DGOR), Hamburg/W. Germany.
- 1973 6th Meeting on “Methods of Operation Research,” Oberwolfach/W. Germany.
- 1973 8th International Symposium on Mathematical Programming, Stanford.
- 1975 ORSA/TIMS meeting, Chicago.
- 1976 1st Symposium on Operations Research, Heidelberg/W. Germany.
- 1976 9th International Symposium on Mathematical Programming, Budapest/Hungary.
- 1978 TIMS/ORSA meeting, New York.
- 1979 3rd European Congress on Operations Research, Amsterdam/Netherlands.
- 1980 ORSA/TIMS meeting, Washington, D.C.
- 1984 Canadian Mathematical Society meeting, Edmonton/Canada.
- 1988 Graduate School of Management, University of California, Riverside, California.
- 1988 CORS (Canadian Operational Research Society) meeting, Montreal/Canada.
- 1989 CORS/ORSA/TIMS meeting, Vancouver/Canada.
- 1992 ORSA/TIMS meeting, San Francisco, California.
- 1995 2nd INFORMS meeting, New Orleans, Louisiana.
- 1999 INFORMS meeting, Philadelphia, PA, November 7-10.

INVITED LECTURES

- 1972 Internationales Institut für Management und Verwaltung, West Berlin/W.Germany.
- 1972 Institut für Angewandte Mathematik und Statistik, Universität Bonn/W.Germany.
- 1972 Institut für Oekonometrie und Operations Research, Universität Bonn/W.Germany.
- 1973 Department of Operations Research, Stanford University, California.
- 1974 Fachbereich Wirtschaftswissenschaften, Universität Saarbrücken/W.Germany.
- 1975 Department of Industrial Engineering and Operations Research, Berkeley, California.
- 1976 Center for Cybernetic Studies, University of Texas, Austin, Texas.

- 1976 Department of Industrial Engineering and Department of Management, University of Florida, Gainesville, Florida.
- 1976 Institut für Wirtschaftstheorie und Operations Research, Universität Karlsruhe/W.Germany.
- 1976 8th Meeting on “Methods of Operations Research,” Oberwolfach/W.Germany.
- 1976 1st International Meeting on “General Inequalities,” Oberwolfach/W.Germany.
- 1977 Workshop on “Nonlinear Programming,” Universität Köln/W.Germany.
- 1977 International Symposium on “Extremal Methods and Systems Analysis,” University of Texas, Austin, Texas.
- 1977 Department of Accounting and Management Information Systems, University of Arizona, Tucson, Arizona.
- 1977 Information Sciences, University of California, Santa Cruz, California.
- 1977 Department of Operations Research, Stanford University, California.
- 1977 School of Management and Administration, U. of Texas at Dallas, Texas.
- 1977 Department of System Sciences, University of California, Los Angeles, California.
- 1978 2nd Intern. Symposium on General Inequalities, Oberwolfach/W.Germany.
- 1978 Faculty of Management, Tel-Aviv University, Tel-Aviv/Israel.
- 1978 Faculty of Industrial and Management Engineering, Technion Haifa/Israel.
- 1978 Computer Science Department, Technion, Haifa/Israel.
- 1978 Institut für Wirtschaftstheorie und Operations Research, Universität Karlsruhe/W.Germany.
- 1978 Annual meeting of Israeli Society of Operations Research, Jerusalem/Israel.
- 1978 Department of Mathematics, Southern Illinois University, Carbondale, Illinois.
- 1978 Department of Finance and Management Science, University of Alberta, Edmonton/Canada.
- 1978 Department of Mathematics, Arizona State University, Tempe, Arizona.
- 1978 3rd Symposium über Operations Research, Universität Mannheim/W.Germany.
- 1978 9th Meeting on Methods of Operations Research, Oberwolfach/W.Germany.
- 1979 Workshop on Generalized Convexity, Departement de Mathematiques Appliquees, Universite de Clermont, Clermont-Ferrand/France.

- 1979 Faculty of Management, Tel-Aviv University, Tel-Aviv/Israel.
- 1979 Faculty of Industrial and Management Engineering, Technion/Israel.
- 1979 Institute of Mathematics, Hebrew University, Jerusalem/Israel.
- 1979 Institut für Wirtschaftstheorie und Operations Research, Universität Karlsruhe, Karlsruhe/W.Germany.
- 1979 International Conference on Mathematical Programming, Oberwolfach/W.Germany.
- 1979 10th International Symposium on Mathematical Programming, Montreal/Canada.
- 1979 Faculty of Commerce, University of British Columbia, Vancouver/Canada .
- 1980 Faculty of Management and Department of Economics, University of Calgary, Calgary/Canada.
- 1980 Department of Operations Research, University of Pisa, Pisa/Italy.
- 1980 Optimization and Optimal Control, Oberwolfach/W.Germany.
- 1980 NATO Advanced Study Institute on Generalized Concavity in Optimization and Economics, Vancouver/Canada.
- 1980 2nd International Congress on Perturbation Methods in Mathematical Programming, Washington, D.C.
- 1980 ORSA/TIMS Meeting, Washington, D.C.
- 1980 Annual Meeting of Canadian Mathematical Society, Montreal/Canada.
- 1981 2nd International Conference on Mathematical Programming, Oberwolfach/W.Germany.
- 1981 Optimization Days, Montreal/Canada.
- 1981 Faculty of Commerce, University of British Columbia, Vancouver/Canada.
- 1981 CORS/ORSA/TIMS Meeting, Toronto/Canada.
- 1981 9th Triennial Conference on Operations Research, Hamburg/W.Germany.
- 1981 Department of Industrial and Systems Engineering, University of Florida, Gainesville, Florida.
- 1981 Department of Management Sciences, University of Waterloo, Waterloo/Canada.
- 1981 Institut für Wirtschaftstheorie und Operations Research, Universität Karlsruhe/W.Germany.
- 1982 Department of Industrial Engineering and Operations Research, Virginia Polytechnic Institute and State University, Blacksburg, Virginia.

- 1982 11th International Symposium on Mathematical Programming, Bonn/W.Germany.
- 1982 ORSA/TIMS Meeting, San Diego, California.
- 1983 4th International Symposium on General Inequalities, Oberwolfach/W.Germany.
- 1983 ORSA/TIMS Meeting, Chicago, Illinois.
- 1983 Institute for Economics and Operations Research, University of Karlsruhe/W.Germany.
- 1983 CORS Meeting, Winnipeg/Canada.
- 1983 ORSA/TIMS Meeting, Orlando, Florida.
- 1983 Department of Mathematical Sciences, University of Delaware.
- 1984 ORSA/TIMS Meeting, San Francisco, California.
- 1984 Department of Operations Research, Stanford University, California.
- 1984 9th Symposium on Operations Research, Osnabrück/W.Germany (Keynote Speaker).
- 1984 ORSA/TIMS Meeting, Dallas, Texas.
- 1985 Faculty of Business and Economics, University of Köln/W.Germany.
- 1985 Institute for Economics and Operations Research, University of Karlsruhe/W.Germany.
- 1985 12th International Symposium on Mathematical Programming, Boston, Massachusetts.
- 1985 Graduate School of Management, University of California, Irvine, California.
- 1985 Department of Operations Research, University of Pisa/Italy.
- 1985 Department of Computer Science, University of Pisa/Italy.
- 1985 Department of Economics and Finance, University of Siena/Italy.
- 1985 Department of Economics, University of Venice/Italy.
- 1985 Faculty of Business, University of Verona/Italy.
- 1985 Faculty of Business and Economics, University of Frankfurt/W.Germany.
- 1986 Graduate School of Management, University of California, Irvine, California.
- 1986 International Conference on fractional programming, multiobjective programming, and continuous programming, Canton, New York (Keynote Speaker).
- 1986 ORSA/TIMS Meeting, Miami Beach, Florida.

- 1987 Operations Research, Oberwolfach/W.Germany.
- 1987 Faculty of Business and Economics, University of Pisa/Italy.
- 1987 Department of Management Science, California State University, Fullerton, California.
- 1987 Graduate School of Administration, University of California, Davis, California.
- 1987 Graduate School of Management, University of California, Riverside, California.
- 1988 ORSA/TIMS meeting, Washington, D.C.
- 1988 Department of Mathematics and Computer Science, University of California, Riverside, California.
- 1988 International Workshop on “Generalized Concavity, Fractional Programming and Economic Applications,” Pisa/Italy.
- 1988 Faculty of Business and Economics, University of Karlsruhe/W.Germany.
- 1988 Faculty of Business and Economics, University of Verona/Italy.
- 1988 Institute of Quantitative Methods, Bocconi University, Milan/Italy.
- 1989 Graduate School of Industrial Administration, Carnegie-Mellon University, Pittsburgh, Pennsylvania.
- 1989 14th Symposium on Operations Research, Ulm/W.Germany.
- 1989 Institute of Quantitative Methods, Bocconi University, Milan/Italy.
- 1989 13th Annual conference of A.M.A.S.E.S. (Associazione per la Matematica alle Scienze Economiche e Sociali), Verona/Italy (Keynote Speaker).
- 1989 International Workshop on “Generalized Convexity and Fractional Programming,” Graduate School of Management, University of California, Riverside, October 9-10.
- 1990 ORSA/TIMS meeting, Las Vegas, Nevada.
- 1990 Graduate School of Management, University of California, Riverside, California.
- 1990 International Workshop on Complementarity Problems, Stanford University, California.
- 1990 International Symposium on Locational Decisions, California State University, Fullerton, California.
- 1990 Operations Research 1990, Vienna/Austria.
- 1990 14th Annual Conference of A.M.A.S.E.S., Pescara/Italy.

- 1990 Faculty of Business and Economics, University of Verona/Italy.
- 1990 Faculty of Business and Economics, University of Parma/Italy.
- 1990 Institute of Quantitative Methods, Bocconi University, Milan/Italy.
- 1990 Faculty of Business and Economics, University of Pavia/Italy.
- 1990 Faculty of Business and Economics, University of Karlsruhe/Germany.
- 1990 Faculty of Commerce and Business Administration, University of British Columbia, Vancouver/Canada.
- 1990 Departement d'Informatique et de Recherche Operationelle, Universite de Montreal/Canada.
- 1991 International School of Mathematics "G. Stampacchia," "Nonsmooth Optimization: Methods and Applications," Erice/Italy (Lecturer).
- 1991 Econometric Institute, Erasmus University, Rotterdam/The Netherlands.
- 1991 Department of Mathematics, University of Trier/Germany.
- 1991 16th Symposium on Operations Research, Trier/Germany.
- 1991 Department of Mathematics, University of Bayreuth/Germany.
- 1991 Faculty of Business and Economics, University of Karlsruhe/Germany.
- 1991 Faculty of Business and Economics, University of Verona/Italy.
- 1991 Institute of Quantitative Methods, Bocconi University, Milan/Italy.
- 1991 ORSA/TIMS meeting, Anaheim, California.
- 1992 Department of Systems and Industrial Engineering, University of Arizona, Tuscon.
- 1992 Italian Workshop on "Generalized Convexity," Pisa/Italy (Keynote Speaker).
- 1992 Dipartimento di Matematica e Applicazioni "Renato Caccioppoli," Universita di Napoli/Italy.
- 1992 Dipartimento di Elettronica, Informatica e Sistemistica, Universita della Calabria/Italy.
- 1992 Dipartimento di Matematica Applicata ed Informatica, Universita di Venezia/Italy.
- 1992 17th Symposium on Operations Research , Hamburg/Germany.
- 1992 4th International Workshop on Generalized Convexity, Pecs/ Hungary.
- 1992 Department of Operations Research and Decision Systems, Hungarian Academy of Sciences, Budapest/Hungary.

- 1992 Istituto di Metodi Quantitativi, Universita' Bocconi, Milano/Italy.
- 1992 16th Annual Conference of A.M.A.S.E.S., Treviso/Italy.
- 1993 Department of Statistics, University of California, Riverside, California.
- 1993 18th Symposium on Operations Research, Köln/Germany.
- 1993 Institute of Quantitative Methods, Bocconi University, Milan/Italy.
- 1993 Institute of Economics and Operations Research, University of Karlsruhe/Germany.
- 1993 ORSA/TIMS meeting, Phoenix, Arizona.
- 1994 Institute of Quantitative Methods, University of Milan/Italy.
- 1994 Faculty of Banking, Finance and Insurance, Catholic University of Milan/Italy.
- 1994 Institute of Quantitative Methods, Bocconi University, Milan/Italy.
- 1994 Department of Applied Mathematics and Information Sciences, University of Venice/Italy.
- 1994 Faculty of Business and Economics, University of Verona/Italy.
- 1994 International School of Mathematics "G.Stampacchia," "Variational Inequalities and Network Equilibrium Problems," Erice/Italy, June 19-25 (Lecturer).
- 1994 15th International Symposium on Mathematical Programming, Ann Arbor, Michigan.
- 1995 Department of Mathematics, University of Avignon/France.
- 1995 3rd Workshop of MODE (Mathematiques de l'Optimization et de la Decision), Brest/France.
- 1995 Italian Workshop on Generalized Convexity, Bocconi University, Milan/Italy (Keynote Speaker).
- 1995 Faculty of Banking, Finance and Insurance, Catholic University of Milan/Italy.
- 1995 1st INFORMS meeting (formerly ORSA/TIMS), Los Angeles, California.
- 1995 International Workshop on Nonsmooth Analysis and Applications, Pau/France.
- 1995 2nd Summer School of Nonlinear Analysis, Samos/Greece (Lecturer).
- 1996 Institute of Quantitative Methods, Bocconi University, Milan/Italy.
- 1996 13th International Conference on Mathematical Programming, Matrahaza/Hungary. (Distinguished Speaker).
- 1996 Institute of Economics and Operations Research, University of Karlsruhe/Germany.

- 1996 Department of Economics and Economic History, Universitat Autònoma, Barcelona/Spain.
- 1996 5th International Symposium on Generalized Convexity, Centre International de Recherches Mathématiques, Luminy-Marseille/France.
- 1996 Second International Symposium on Operations Research and Its Applications (ISORA), Guilin/PRC.
- 1996 Department of Management, The Hong Kong Polytechnic University, Kowloon, Hong Kong.
- 1997 Institute of Quantitative Methods, Bocconi University, Milan/Italy.
- 1997 Faculty of Banking, Finance and Insurance, Catholic University of Milan/Italy.
- 1997 INFORMS meeting (formerly ORSA/TIMS), San Diego/CA, (invited tutorial and invited talk).
- 1997 Workshop on Scheduling and Heuristic Search, The A. Gary Anderson Graduate School of Management, University of California, Riverside/CA, May 8.
- 1997 Department of Mathematics, University of Montpellier II/France.
- 1997 16th International Symposium on Mathematical Programming, Lausanne/Switzerland.
- 1998 Workshop on Generalized Convexity and Monotonicity in Economic Modeling, June 4-6, Barcelona/Spain (keynote speaker).
- 1998 INFORMS, Tel Aviv/Israel, June 28-July 1.
- 1998 Faculty of Industrial Engineering and Management, Technion, Haifa/Israel.
- 1998 Faculty of Management, Tel Aviv University, Tel Aviv/Israel.
- 1998 INFORMS, Seattle/WA, October 25-28.
- 1998 International Conference on Nonlinear Programming and Variational Inequalities, Hong Kong/PRC, December 15-18.
- 1999 Department of Mathematics, National Changhua University of Education, Changhua/Taiwan.
- 1999 Department of Applied Mathematics, National Sun Yat-sen University, Kaohsiung/Taiwan
- 1999 “Summer School on Generalized Convexity/Monotonicity”, Samos/Greece, August 25-28.
- 1999 “6th International Symposium on Generalized Convexity/ Monotonicity”, Samos/Greece, August 30-September 3.
- 2000 INFORMS meeting, Salt Lake City/UT, May 7-10.
- 2000 5th APORS meeting (Asian-Pacific Operations Research Societies), Singapore, July 5-7.

- 2000 “17th International Symposium on Mathematical Programming”, Atlanta/GA, August 7-11.
- 2000 Department of Applied Mathematics, Pukyong National University, Pusan, South Korea, October 23.
- 2000 1st Sino-Japan Optimization Meeting, Hong Kong, October 26-28.
- 2001 International Conference on Optimization and Optimal Control, Tainan, Taiwan, June 1-4. (plenary speaker)
- 2001 34th Workshop: Optimization and Optimal Control with Applications, International Summer School of Mathematics “G.Stampacchia”, Erice, Italy, July 9-17 (summer school faculty).
- 2001 Institute for Economic Theory and Operations Research, University of Karlsruhe, Germany, July 19.
- 2001 INFORMS meeting, Miami Beach, FL, November 4-7.
- 2001 5th International Conference on Optimization Techniques and Applications (ICOTA’01), Hong Kong, December 15-17.
- 2002 Department of Statistics, University of California, Riverside, February 19.
- 2002 Third Symposium on Nonlinear Analysis, Optimization Analysis, Methodology and Applications, Academia Sinica, Taipei and Chung Yuan Christian University, Chung-Li, Taiwan, June 28-29.
- 2002 Workshop on Optimization Analysis, National Tsinghua University, Hsinchu, Taiwan, July 1.
- 2002 Department of Mathematics, National Changhua University of Education, Changhua, Taiwan, July 4.
- 2002 7th International Symposium on Generalized Convexity/Monotonicity, Hanoi, Vietnam, August 27-31.
- 2002 Tokyo University of Science, Department of Management Science, Kuki-City, Japan, September 20.
- 2002 Second Japan-Sino Optimization Meeting, Kyoto, Japan, September 25-27.
- 2002 INFORMS meeting, San Jose, CA, November 17-20.
- 2003 Department of Econometrics and Decision Sciences, Catholic University, Milan, Italy, June 11, 16.
- 2003 Institute of Quantitative Methods, Bocconi University, Milan, Italy, June 12.

- 2003 Department of Mathematics, Statistics, Computer Science and Applications, University of Bergamo, Italy, June 20, 23.
- 2003 3rd International Conference on Nonlinear Analysis and Convex Analysis, Tokyo Institute of Technology, Japan, August 25-29 (plenary speaker).
- 2003 Graduate School of Science and Technology, Niigata University, Japan, September 1.
- 2004 Department of Mathematics, Statistics, Computer Science and Applications, University of Bergamo, Italy, March 2, 4.
- 2004 Department of Statistics and Applied Mathematics, University of Pisa, Italy, March 10, 15.
- 2004 Department of Econometrics and Decision Sciences, Catholic University, Milan, Italy, March 18
- 2004 Faculty of Economics, University of Insubria, Varese, Italy, March 19.
- 2004 Department of Management Science and Engineering, Stanford University, April 30.
- 2004 Department of Applied Mathematics, National Sun Yat-Sen University, Taiwan, May 24, 26.
- 2004 International Conference on Analysis and Applications, National Changhua University of Education, Taiwan, May 28-31 (plenary speaker).
- 2004 First Mathematical Programming Society International Conference on Continuous Optimization (ICCOPT 1), Rensselaer Polytechnic Institute, Troy, New York, August 2-4.
- 2004 Department of Mathematics, Royal Melbourne Institute of Technology, Melbourne, Australia, December 7.
- 2004 6th International Conference on Optimization Techniques and Applications (ICOTA 6), University of Ballarat, Australia, December 9-11.
- 2004 School of Applied Mathematics, University of New South Wales, Sydney, Australia, December 14.
- 2005 Department of Applied Mathematics, National Sun Yat-Sen University, Taiwan, March 23&25.
- 2005 Department of Applied Mathematics, Shanghai Normal University, Shanghai/China, May 27.
- 2005 International Workshop on Optimization, Tong Ji University, Shanghai/China, May 28-30. (plenary speaker, first lecture at conference)
- 2005 Department of Mathematics, Shanghai University of Finance and Economics, May 31.
- 2005 Institute of Economic Theory and Operations Research, University of Karlsruhe, Germany, June 14.
- 2005 Department of Mathematics, Statistics, Computer Science and Applications, University of Bergamo, Italy, June 20&27.

- 2005 8th International Symposium on Generalized Convexity/Monotonicity, Varese, Italy, July 4-8.
- 2006 Department of Statistics and Applied Mathematics, University of Pisa, Italy, May 16 & 18.
- 2006 INTAS Summer School on “Variational Inequalities and their Applications to Economic Equilibrium Problems”, University of Bergamo, Italy, June 5 (plenary lecture).
- 2006 Department of Applied Mathematics, Chung Yuan Christian University, Chung-Li, Taiwan, August 25
- 2007 Department of Mathematics, National Changhua University of Education, Taiwan, Oct. 15.
- 2007 Department of Mathematics National Cheng-Kung University, Tainan, Taiwan, Nov. 20.
- 2007 Department of Mathematics, National Chia-Yi University, Chia-Yi, Taiwan, Dec. 5.
- 2008 Department of Mathematics, National Chen-Kung University, Tainan, Taiwan, March 20.
- 2009 INFORMS annual meeting in San Diego, October 11-14 (tutorial).

RESEARCH SUPPORT RECEIVED

- 1970 Deutscher Akademischer Austauschdienst (DAAD): 3 months at University of Zuerich, Switzerland
- 1973 Deutsche Forschungsgemeinschaft (DFG), Verein der Freunde und Förderer der Universität Köln and Stanford University; 3 months in USA
- 1974-1976 Deutsche Forschungsgemeinschaft (DFG): 18 months in USA
- 1977 Deutsche Forschungsgemeinschaft (DFG): 1 month in USA
- 1978 Technion-Israel Institute of Technology, Haifa: 1 month in Israel
- 1979 Deutsche Forschungsgemeinschaft and Technion, Haifa: 1 month in Israel
- 1979 General Research Grant from University of Alberta for 18 months
- 1980 Operating Grant from National Science and Engineering Research Council (NSERC) for one year
- 1980 NATO Research Grant for co-operation with J. A. Ferland, Montreal/Canada and J. P. Crouzeix, Clermont-Ferrand/France for 1 year
- 1981 Operating Grant from Natural Sciences and Engineering Research Council (NSERC) for 1 year
- 1981 J. Muir Research Grant from University of Alberta, 1 year
- 1982 - 1985

Operating Grant from Natural Sciences and Engineering Research Council (NSERC) for 3 years
(Can \$24,000)

1984 J.D. Muir Research Grant from University of Alberta, 1 year

1985-1988

Operating Grant from Natural Sciences and Engineering Research Council (NSERC) for 3 years
(Can \$30,000)

In addition, I received travel support from various institutes and scientific organizations for presenting research seminars and engaging in joint research in Australia, Canada, France, Germany, Greece, Hong Kong, Hungary, Israel, Italy, Japan, P.R. China, South Korea, Spain, Taiwan, The Netherlands, and USA.

RESEARCH INTERESTS

- General:
- Mathematical Programming, in particular Nonlinear Programming
 - Optimization Theory and Applications
 - Variational Inequalities and Equilibrium Problems
- Special:
- Fractional Programming
 - Generalized Convexity
 - Generalized Monotonicity
 - Models in Production, Inventory and Distribution

OTHER ACTIVITIES

Hobbies: Photography, violin, classical music, languages (Latin, Greek, Hebrew), ancient cultures, hiking, biking

Languages: Speak, read, and write German fluently. Read French and Italian.

PUBLICATIONS

A. Theses

1. Schaible, S., 1967, Multiplikation verallgemeinerter Funktionen (Multiplication of generalized functions). Diplom-Arbeit, (Thesis for Master of Science), Mathematisch-Naturwissenschaftliche Fakultät, Universität Mainz/W.Germany.
2. Schaible, S., 1971, Beiträge zur quasikonvexen Programmierung. (Contributions to quasiconvex programming). Doctoral Dissertation, (Ph.D. Dissertation), Mathematisch-Naturwissenschaftliche Fakultät, Universität Köln/W.Germany
3. Schaible, S., 1977, Analyse und Anwendungen von Quotientenprogrammen, Habilitationsschrift. (Thesis required for a professorship at a German university), Wirtschafts-und Sozialwissenschaftliche Fakultät, Universität Köln/W.Germany

B. Books

1. Schaible, S., 1978, Analyse und Anwendungen von Quotientenprogrammen, ein Beitrag zur Planung mit Hilfe der nichtlinearen Programmierung (Analysis and applications of fractional programming - a contribution to planning with nonlinear programming), Hain-Verlag, Meisenheim 1978, 259 pages.
(This is the first book ever published, which is solely devoted to fractional programming.)
 2. Schaible, S. and Ziemba, W.T. (eds.), 1981, Generalized concavity in optimization and economics, Academic Press, New York, 767 pages.
(These are the proceedings of a NATO Advanced Study Institute in Vancouver/Canada on August 4-15, 1980. In retrospect, it is now called Generalized Convexity 1.)
 3. Kreikebaum, H., Liesegang, G., Schaible, S. and Wildemann, H. (eds.), 1985, Industriebetriebslehre in Wissenschaft und Praxis (Theory and practice of managing industrial organizations), Duncker-Humblot Verlag, Berlin/W.Germany, 318 pages.
(This is the Festschrift for Professor Dr. Dr. T. Ellinger on the occasion of his 65th birthday.)
 4. Avriel, M., Diewert, W.E., Schaible, S. and I. Zang, 1988, Generalized concavity, Plenum Publishing Corporation, New York, 332 pages.
(This is the first textbook/monograph solely devoted to generalized convexity.)
 5. Cambini, A., Castagnoli, E., Martein, L., Mazzoleni, P. and Schaible, S. (eds.), 1990, Generalized convexity and fractional programming with economic applications, Lecture Notes in Economics and Mathematical Systems, Vol. 345, Springer-Verlag, Berlin - Heidelberg - New York, 361 pages.
(These are the proceedings of an international symposium in Pisa/Italy on May 30-June 1, 1988, now called Generalized Convexity 3.)
 6. Komlosi, S., Rapcsak, T., and Schaible S. (eds.), 1994, Generalized convexity, Lecture Notes in Economics and Mathematical Systems, Vol. 405, Springer-Verlag, Berlin - Heidelberg - New York, 404 pages.
(These are the proceedings of Generalized Convexity 4, an international symposium in Pecs/Hungary on August 31-September 3, 1992.)
 7. Hadjisavvas, N., Komlosi, S. and S. Schaible (eds.) 2005, Handbook of generalized convexity and generalized monotonicity, Nonconvex Optimization and its Applications, Springer, Berlin-Heidelberg-New York, 691 pages.
(This is the first handbook on generalized convexity and on generalized monotonicity.)
- C. Articles in Journals
(Refereed)**
1. Schaible, S., 1972, "Quasi-convex optimization in general real linear spaces," Zeitschrift für Operations Research, 16, 205-213.
 2. Schaible, S., 1973, "Quasiconcave, strictly quasiconcave and pseudoconcave functions," Methods of Operations Research, 17, 308-316.
 3. Schaible, S., 1973, "Quasiconcavity and pseudoconcavity of cubic functions," Mathematical Programming, 5, 243-247.

4. Schaible, S., 1973, "On factored quadratic functions," Zeitschrift für Operations Research, 17, 179-181.
5. Schaible, S., 1974, "Maximization of quasiconcave quotients and products of finitely many functionals," Cahiers du Centre d'Etudes de Recherche Operationelle, 16, 45-53.
6. Schaible, S., 1974, "Parameter-free convex equivalent and dual programs of fractional programs," Zeitschrift für Operations Research, 18, 187-196.
7. Schaible, S., 1974, "Nonlinear fractional programming," Methods of Operations Research, 19, 109-115.
8. Schaible, S., 1975, "A note on 'Quadratic fractional functionals programming'," by Aggarwal, S.P., Cahiers du Centre d'Etudes de Recherche Operationelle, 17, 95-96.
9. Schaible, S., 1975, "Marginalwerte in der Quotientenprogrammierung (marginal values in fractional programming), Zeitschrift für Betriebswirtschaft, 45, 649-658.
10. Schaible, S., 1976, "Fractional programming, I, Duality," Management Science, 22, 858-867.
11. Schaible, S., 1976, "Fractional programming, II, On Dinkelbach's algorithm," Management Science, 22, 868-873.
12. Schaible, S., 1976, "Duality in fractional programming: a unified approach," Operations Research, 24, 452-461.
13. Schaible, S., 1976, "Minimization of ratios," J. of Optimization Theory and Applications, 19, 347-352.
14. Ellinger, T. and Schaible, S., 1977, "Kombination von Losgrößenansätzen (A unifying lot-size formula)," Zeitschrift für Betriebswirtschaft, 47, 1-18.
15. Schaible, S., 1977, "On the sum of a linear and a linear-fractional function," Naval Research Logistics Quarterly, 24, 691-693.
16. Schaible, S., 1977, "Second order characterizations of pseudoconvex quadratic functions," J. of Optimization Theory and Applications, 21, 15-26.
17. Schaible, S., 1977, "Recent results in fractional programming," Methods of Operations Research, 23, 271-272.
18. Schaible, S., 1977, "Duality in ratio optimization," Methods of Operations Research, 25, 131-132.
19. Avriel, M. and Schaible, S., 1978, "Second order characterizations of pseudoconvex functions," Mathematical Programming, 14, 170-185.
20. Schaible, S., 1978, "Generalized convexity: applications and new characterizations," Methods of Operations Research, 31, 547-550.

21. Schaible, S., 1979, "Pseudoconvex C^2 – functions," Methods of Operations Research, 36, 241-242.
22. Schaible, S., and I. Zang, 1980, "On the convexifiability of pseudoconvex C^2 – functions," Mathematical Programming, 19, 289-299.
23. Schaible, S., 1981, "Fractional Programming: applications and algorithms," European J. of Operations Research, 7, 111-120.
24. Schaible, S., 1981, "Quasiconvex, pseudoconvex, and strictly pseudoconvex quadratic functions," J. of Optimization Theory and Applications, 35, 303-338.
25. Schaible, S., 1982, "Bibliography in fractional programming," Zeitschrift für Operations Research, 26, 211-241.
26. Schaible, S., 1983. "Bicriteria quasiconcave programs," Cahiers du Centre d' Etudes de Recherche Operationelle, 25, 93-101.
27. Schaible, S. and T. Ibaraki, 1983. "Invited review: fractional programming," European J. of Operations Research, 12, 325-338.
28. Schaible, S., 1983. "Fractional programming" (invited paper), Zeitschrift für Operations Research, 27, 39-54.
29. Crouzeix, J.P., Ferland, J.A. and S. Schaible, 1983. "Duality in generalized linear fractional programming," Mathematical Programming, 27, 342-354.
30. Jagannathan, R., and S. Schaible, 1983. "Duality in generalized fractional programming via Farkas' lemma," J. of Optimization Theory and Applications, 41, 417-424.
31. Schaible, S. and T. J. Lowe, 1983. "A note on a material control problem," AIIE Transactions, 15, 177-179.
32. Schaible, S., 1984. "Simultaneous optimization of absolute and relative terms," Zeitschrift für Angewandte Mathematik und Mechanik, 64, 363-364.
33. Crouzeix, J.P., Ferland, J.A., and S. Schaible, 1985. "An algorithm for generalized fractional programming," J. of Optimization Theory and Applications, 47, 35-49.
34. Schaible, S. and W.T. Ziemba, 1985. "Generalized concavity of a function in portfolio theory," Zeitschrift für Operations Research, 29, 161-186.
35. Choo, E.U., Schaible, S., and K.P. Chew 1985. "Connectedness of the efficient set in three criteria quasiconcave programming," Cahiers du Centre d'Etudes de Recherche Operationelle, 27, 213-220.
36. Crouzeix, J.P., Ferland, J.A., and S. Schaible, 1986. "A note on 'An algorithm for generalized fractional programs'," J. of Optimization Theory and Applications, 50, 183-187.

37. Schaible, S., 1989. "Fractional programming - some recent developments" (invited paper), J. of Information and Optimization Sciences, 10, No. 1, 1-14.
38. Cambini, A., Martein, L., and S. Schaible, 1989. "On maximizing a sum of ratios," J. of Information and Optimization Sciences, 10, No. 1, 65-79.
39. Martein, L. and S. Schaible, 1989. "On solving a linear program with one quadratic constraint," Rivista di Matematica per le Scienze Economiche e Sociali, 10, No. 1-2, 75-90.
40. Karamardian, S. and S. Schaible, 1990. "Seven kinds of monotone maps," J. of Optimization Theory and Applications, 66, 37-46.
41. Drezner, Z., Schaible, S. and D. Simchi-Levi, 1990. "Queueing - location problems on the plane," Naval Research Logistics, 37, 929-935.
42. Crouzeix, J.P., Ferland, J.A., and S. Schaible, 1992. "Generalized convexity of functions on affine subspaces with an application to potential functions" Mathematical Programming, 56, 223-232.
43. Markowitz, H.M., Schaible, S., and W.T. Ziemba, 1992. "An algorithm for portfolio selection in a lognormal market," International Review of Financial Analysis, 1, 109-113.
44. Karamardian, S., Schaible, S., and J.P. Crouzeix, 1993. "Characterizations of generalized monotone maps," J. of Optimization Theory and Applications, 76, 399-413.
45. Cambini, A., Schaible, S. and C. Sordini, 1993. "Parametric linear fractional programming for an unbounded feasible region," J. of Global Optimization, 3, 157-169.
46. Hadjisavvas, N. and S. Schaible, 1993. "On strong pseudomonotonicity and (semi) strict quasimonotonicity," J. of Optimization Theory and Applications, 79, 139-155.
47. Pini, R. and S. Schaible, 1994. "Invariance properties of generalized monotonicity," Optimization, 28, 211-222.
48. Hadjisavvas, N. and S. Schaible, 1995. "Errata corrige of 'On strong pseudomonotonicity and (semi) strict quasimonotonicity'," J. of Optimization Theory and Applications, 85, 741-742.
49. Muu, L.D., Tam, B.T., and S. Schaible, 1995. "Efficient algorithms for solving certain nonconvex programs dealing with the product of two affine fractional functions," J. of Global Optimization, 6, 179-191.
50. Schaible, S. and C. Sordini, 1995. "Finite algorithm for generalized linear multiplicative programming," J. of Optimization Theory and Applications, 87, 441-455.
51. Schaible, S. and J.-C. Yao, 1995. "On the equivalence of nonlinear complementarity problems and least-element problems," Mathematical Programming, 70, 191-200.
52. Molho, E. and S. Schaible, 1996. "Invexity of quadratic functions and restricted/local invexity," J. of Information and Optimization Sciences, 17, 127-136.

53. Barros, A.I., Frenk, J.B.G., Schaible, S. and S. Zhang, 1996. "A new algorithm for generalized fractional programs," Mathematical Programming, 72, 147-175.
54. Barros, A.I., Frenk, J.B.G., Schaible, S. and S. Zhang, 1996. "Using duality to solve generalized fractional programming problems," J. of Global Optimization, 8, 139-170.
55. Hadjisavvas, N. and S. Schaible, 1996. "Quasimonotone variational inequalities in Banach spaces," J. of Optimization Theory and Applications, 90, 95-111.
56. Bianchi, M. and S. Schaible, 1996. "Generalized monotone bifunctions and equilibrium problems," J. of Optimization Theory and Applications, 90, 31-43.
57. Luc, D.T. and S. Schaible, 1996. "Generalized monotone nonsmooth maps," J. of Convex Analysis, 3, 195-205.
58. Crouzeix, J.P. and S. Schaible, 1996. "Generalized monotone affine maps," SIAM J. on Matrix Analysis and Applications, 17, 992-997.
59. Freund, R.W., Jarre, F. and S. Schaible, 1996. "On self-concordant barrier functions for conic hulls and fractional programming," Mathematical Programming, 74, 237-246. (A more detailed version is available at URL <http://netlib.att.com/netlib/att/cs/doc/94.>)
60. Bianchi, M., Hadjisavvas, N. and S. Schaible, 1997. "Vector equilibrium problems with generalized monotone bifunctions", Journal of Optimization Theory and Applications, 92, 527-542.
61. Daniilidis, A., Hadjisavvas, N. and S. Schaible, 1997. "Connectedness of the efficient set for three-objective quasiconcave maximization problems", Journal of Optimization Theory and Applications, 93, 517-524
62. Luc, D.T. and S. Schaible, 1997. "Efficiency and generalized concavity", Journal of Optimization Theory and Applications, 94, 147-153.
63. Hadjisavvas, N. and S. Schaible, 1998. "From scalar to vector equilibrium problems in the quasimonotone case", Journal of Optimization Theory and Applications, 96, 297- 309.
64. Jeyakumar, V., Luc, D.T. and S. Schaible, 1998. "Characterizations of generalized monotone nonsmooth continuous maps using approximate Jacobians", Journal of Convex Analysis, 5, 119-132.
65. Ansari, Q.H., Schaible, S. and J.C.Yao, 1999. "Eta-Pseudolinearity", Rivista di Matematica per le Scienze Economiche e Sociali, 5, 31-39.
66. Crouzeix, J.-P., Hassouni, A., Lahlou, A. and S. Schaible, 2000. "Positive sub-definite matrices, generalized monotonicity and linear complementarity problems", SIAM Journal on Matrix Analysis and Applications, 22, 66-85.
67. Bianchi, M. and S. Schaible, 2000. "An extension of pseudolinear functions and variational inequality problems", Journal of Optimization Theory and Applications, 104, 59-71.

68. Konnov, I.V. and S. Schaible, 2000. "Duality for equilibrium problems under generalized monotonicity", Journal of Optimization Theory and Applications, 104, 395-408.
69. Ansari, Q.H., Schaible, S. and J.C.Yao, 2000. "System of vector equilibrium problems and its applications", Journal of Optimization Theory and Applications, 107, 549-559.
70. Schaible, S., 2002. "Fractional programming - a recent survey", Journal of Statistics and Management Systems, 5, 63-86.
71. Ansari, Q.H., Schaible, S. and J.C.Yao, 2002. "The system of generalized vector equilibrium problems with applications", Journal of Global Optimization, 22, 3-16.
HONORARY ISSUE FOR PROF.R.HORST, TRIER, GERMANY ON HIS 60TH BIRTHDAY.
72. Ansari, Q.H., Schaible, S. and J.C. Yao, 2002. "Generalized vector equilibrium problems under generalized pseudomonotonicity with applications", Journal of Nonlinear and Convex Analysis, 3, No.3, 331-344.
73. Bianchi, M., Hadjisavvas, N. and S. Schaible, 2003. "On pseudomonotone maps T for which $-T$ is also pseudomonotone", Journal of Convex Analysis, 10, 149-168.
74. Allevi, E., Gnudi, A., Konnov, I.V. and S. Schaible, 2003. "Noncooperative games with vector payoffs under relative pseudomonotonicity", Journal of Optimization Theory and Applications, 118, No.2, 245-254.
75. Schaible, S. and J. Shi, 2003. "Fractional programming - the sum of ratios case", Optimization Methods and Software, 18, 219-229.
76. Kim, D.S., Lee, W.J. and S. Schaible, 2004. "Symmetric duality for invex multiobjective fractional variational problems", Journal of Mathematical Analysis and Applications, 289, 505-521.
77. Chadli, O., Schaible, S. and J.C. Yao, 2004. "Regularized equilibrium problems with an application to noncoercive hemivariational inequalities", Journal of Optimization Theory and Applications, 121, 571-596.
78. Bianchi, M., Hadjisavvas, N. and S. Schaible, 2004. "Minimal coercivity conditions and exceptional families of elements in quasimonotone variational inequalities", Journal of Optimization Theory and Applications, 122, No.1, 1-17.
79. Kim, D.S. and S. Schaible, 2004. "Optimality and duality for invex nonsmooth multiobjective programming problems", Optimization, 53, No. 2, 165-176.
80. Bianchi, M. and S. Schaible, 2004. "Equilibrium problems under generalized convexity and generalized monotonicity", Journal of Global Optimization, 30, 121-134.
81. Schaible, S., Yao, J.C. and L.C.Zeng, 2004. "On the convergence analysis of an iterative algorithm for generalized set-valued variational inclusions", Journal of Nonlinear and Convex Analysis, 5, 361-368.

82. Martinez-Legaz, J.E., Rubinov, A.M. and S. Schaible, 2005. "Increasing quasiconcave co-radiant functions with applications in mathematical economics", Mathematical Methods of Operations Research, 61, 261-280.
83. Ansari, Q.H., Schaible, S. and J.C. Yao, 2005. "Generalized vector quasi-variational inequality problems over product sets", Journal of Global Optimization, 32, 437-449.
84. Zeng, L.C., Schaible, S. and J.C. Yao, 2005. "Iterative algorithm for generalized set-valued strongly nonlinear mixed variational-like inequalities", Journal of Optimization Theory and Applications, 124, 725-738.
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