

Presentation List

Invited Plenary Talks at International Conferences

- Reasoning and Learning in Probabilistic Networks, 8th European Conference on Machine Learning, ECML'95, Heraklion, 1995.
- Wissensbasierte Systeme: Wie geht man mit unvollkommenem Wissen um? Congress Wissenschaft als Zukunftskultur, 250th Anniversary of the TU Braunschweig, 1995.
- Learning Probabilistic and Possibilistic Networks, 7. International Fuzzy Systems, Association World Congress, IFSA'97, Prag, 1997.
- Data Mining with Graphical Models, KI'98/UI'98, Bremen, 1998.
- Data Mining – Status and Perspectives, EUFIT'99, Aachen, Germany, 1999.
- Fuzzy Data Analysis: Challenges and Perspectives, FUZZ-IEEE'99, Seoul, Korea, 1999.
- Information Mining with Fuzzy Methods, SOFSEM'2000, Milovy, Slovakia, 2000.
- Data Mining with Graphical Models, 13th Int. Conf. on Algorithmic Learning Theory / 5th Conference on Discovery Science ALT/DS 2002, Lübeck, Germany, 2002.
- Information Mining with Fuzzy Methods: Trends and Current Challenges, MMAR'02, Stettin, Poland, 2002.
- Graphical Models in Complex Industrial Applications, eingeladener Vortrag, 5th International Conference on Recent Advances in Soft Computing, RASC 2004, Nottingham, UK, 2004.
- Practical Implications of “Soft Computing” and Statistics in Consulting, Second International Conference on Soft Methods, SMPS'2004, Oviedo, Spain, 2004.
- Probabilistic Graphical Models in Complex Industrial Applications, 5th International Conference on Hybrid Intelligent Systems, HIS 2005, Rio de Janeiro, Brasilien, 2005.
- Knowledge-Based Operations for Graphical Models in Planning, 8th European Conference, ECSQARU 2005, Barcelona, Spain, 2005.
- Graphical Models in Complex Applications, EVIC 2006, Santiago, Chile, 2006.

- Item Planning with Graphical Models, Plenary talk, COGIS 2006, Paris, Frankreich, 2006.
- Probabilistic Graphical Models for Data Mining and Planning in Automotive Industry, IEEE Int. Conf. on Tools with Artificial Intelligence, ECTAI'07, Patras, Griechenland, 2007.
- The Role of Soft Computing in Intelligent Data Analysis FUZZIEEE'07, London, UK, 2007.
- Temporal Data Mining auf der 7th IEEE International Conference on Signals and Electronic Systems (ICSES 2010), Gliwice, Poland, 2010.
- Data Mining Applications in the Automotive Industry, 4th International Workshop on Reliable Engineering Computing, REC2010, Singapur, 2010.
- Mining Temporal Data auf der Second International Conference of Soft Computing and Pattern Recognition, SoCPaR 2010, Paris, France, 2010.
- Temporal Aspects in Data Mining, IEEE World Congress on Computational Intelligence, WCCI'2010, Barcelona, Spain, 2010.
- Exploratory Data Analysis in Dynamic Environments, 3rd International Conference on Autonomous and Intelligent Systems (AIS 2012), Aveiro, Portugal, 2012.
- Item Planning with Markov Networks, IEEE Intelligent Systems, Warsaw, Poland, 2014.
- Decomposable Models: On Learning, Fusion, and Revision, World Conference on Soft Computing in Berkeley, USA, 2016
- Modeling Self-Explanatory Big Data Applications, INNS Conference on Big Data, Thessaloniki, Plenary Talk, Greece, 2016
- Decomposable Graphical Models in Industrial Applications: On Learning and Revision, International Conference on Artificial Intelligence and Soft Computing, Zakopane, 2017

Scientific Presentations

1. Unscharfe Maße, Math. Kolloquium, Erlangen, 07.12.1980.
2. Statistik mit unscharfen Daten, Informatik Kolloquium, Hildesheim, 05.06.1983.

3. On a Language and an Interpreter for Calculation and Statistics on Linguistic Data, 1. IFSA Congress, Palma de Mallorca, 03.07.1985.
4. Statistik mit linguistischen Daten, Informatik Kolloquium, Braunschweig, 11.11.1985.
5. Statistik unscharfer Daten, Math. Kolloquium, Ulm, 28.01.1986.
6. Statistics with Fuzzy Data, NAFIPS, New Orleans, 02.06.1986.
7. Ein Programmsystem für statistische Untersuchungen mit unscharfen Daten, 4. Konferenz über die wissenschaftliche Anwendung von Statistik-Software, Heidelberg, 24.03.1987.
8. Unschärfe-Fortpflanzung in Expertensystemen, Workshop des Fachausschusses "Bio- medizinische Nachrichtentechnik" im VDE, Mainz, 27.03.1987.
9. On Linguistic Modelling and Linguistic Approximation in the Presence of Vague Data, International Symposium on Fuzzy Systems and Knowledge Engineering, Guangzhou, China, 11.07.1987.
10. Parametric Statistics in the Presence of Vague Data, 2. IFSA Congress, Tokio, 20.07.1987.
11. Probabilistische Methoden der Unsicherheitspräsentation, Workshop „Methoden zur Behandlung von Unsicherheit“, Dornier GmbH, 08.–09.08.1988.
12. Unscharfes Wissen in Expertensystemen, CCG Lehrgang Wissensbasierte Systeme, Oberpfaffenhofen, 13.09.1988.
13. Statistische Untersuchungen anhand von vagen Daten, DGOR-Jahrestagung, Berlin, 15.09.1988.
14. Uncertainty handling in knowledge based Systems, Kolloquium der TU Gliwice, 21.09.1988.
15. Mathematical Foundations of Expert Systems, Institute of Automation, Gliwice, 22.09.1988.
16. Statistik mit vagen Daten, CCG-Lehrgang Operations Research Hamburg, 25.10.1988.
17. Uncertainty Handling in Knowledge Based System Methematical Foundations, FAW Workshop "Mathematics and AI", Günzburg, 20.12.1988.

18. Evidential reasoning in Product spaces, FAW Workshop on Mathematics and AI Schloß Reisenburg, 21.12.1988.
19. Vage Daten in Expertensystemen, CCG-Lehrgang Hamburg, 17.–21.04.1989.
20. Einführung in PROLOG, CCG-Lehrgang Hamburg, 17.–21.04.1989.
21. Die Problematik unsicherer Informationen, Workshop „Handhabung unsicherer Informationen“, Siemens AG München, 12.–14.06.1989.
22. On a Dialog System for Modelling and Statistical Analysis of Linguistic Data, 3rd IFSA Congress, Seattle, 07.08.1989.
23. On the Treatment of Cyclic Dependencies in Causal Networks, 3rd IFSA Congress, Seattle, 10.08.1989.
24. The Concept of a Specialization, 1. DRUMS RP3 Workshop, Palma de Mallorca, 25.09.1989.
25. Specialization – A new concept for uncertainty handling with belief functions, DRUMS RP 3 Workshop Mallorca 15.–20.10.1989.
26. Vages Wissen in Expertensystemen, 5. MBB Symposium KI, 26.10.89.
27. Evidential reasoning in product spaces, FAW-Workshop “Mathematics and AI” Schloß Reisenburg (Günzburg), 19.–22.12.1989.
28. Fuzzy Sets and Belief Networks, DRUMS Workshops, Albi Frankreich, 26.04.1990.
29. Fuzzy Reasoning in a Multidimensional Space of Hypotheses, DRUMS RP2 First Workshop Albi, 26.–28.04.1990.
30. Reasoning with Dependency Networks, DRUMS Workshop RP2, Albi, 27.04.1990.
31. On the Representation of Uncertain Knowledge in the Context of Belief Functions, 8th International Congress of Cybernetics and Systems, New York, 15.05.1990.
32. On the Combination of Information Sources, 3rd IPMU Conference, Paris, 04.07.1990.
33. On the Interpretation of Conditioning Concepts for Belief Functions, FAW Workshop on Uncertainty in Knowledge-Based Systems Ulm, 08.–13.07.1990.
34. On the Concept of Specialization, FAW Workshop "Uncertainty in Knowledge Based Systems, Günzburg, 12.07.1990.

35. Remarks on Constraint Based Reasoning in Protein Topology Prediction, DRUMS Workshop, Palma de Mallorca, 14.09.1990.
36. Vages Wissen in Expertensystemen, GMD, Gastvortrag Sankt Augustin, 26.09.1990.
37. Numerische Methoden zur Verarbeitung unsicherer Informationen in wissensbasierten Systemen, GMD, Bonn, 26.09.1990.
38. Vages Wissen in Expertensystemen, FAW Workshop Umweltinformatik, Schloß Reisenburg, Günzburg, 04.10.1990.
39. Unsicheres Schließen, IBM, Stuttgart, 14.11.1990.
40. Numerische Verfahren zur Behandlung von Unsicherheit in wissensbasierten Systemen, Statistik Kolloquium der Maximilians-Universität, München, 18.12.1990.
41. Fuzzy Control, VW, Wolfsburg, 25.01.1991.
42. Anwendungen der Technologie und der Fuzzy Control in der Prozeßsteuerung, Daimler Benz, Berlin, 08.02.1991.
43. Numerische Methoden zur Verarbeitung unsicherer Informationen in wissensbasierten Systemen, DFKI Kolloquium, Saarbrücken, 13.02.1991.
44. Fuzzy Sets and Fuzzy Control, Ganztägiger Lehrgang im Auftrag des „Christian Doppler Labors für Expertensysteme“ für Austrian Industries Linz, 21.03.1991.
45. Fuzzy Logic, Hüttenwerke Krupp Mannesmann, Duisburg, 25.03.1991.
46. Uncertainty and Vagueness in Knowledge Based Systems, First French/German Technology Workshop in Data Fusion, Friedrichshafen, 02.05.1991.
47. Data Analysis in the Presence of Partial Ignorance, TIMS/ORSA, Nashville, 14.05.1991.
48. Unsicheres Wissen in Expertensystemen, Informatik Kolloquium der Universität der Bundeswehr, München, 28.05.1991.
49. Fuzzy Logic, Salzgitter Anlagenbau, Salzgitter, 31.05.1991.
50. On the Context Model, DRUMS Workshop, Blanes, 28.06.1991.
51. Fuzzy Logic, Hans Kolbe & Co, Hildesheim, 16.08.1991.
52. On a Tool for Reasoning with Mass Distributions, 12th. Joint Conference on Artificial Intelligence, Sydney, 27.08.1991.

53. Statistics for Vague Data, 19th European Meeting of Statisticians, Barcelona, 05.09.1991.
54. New Methods in Statistics with Vague Data, Proc. 4rd IFSA Conference, Brüssel, 08.09.1991.
55. Fuzzy Control und Anwendungen der Fuzzy Logic, Telenorma, Frankfurt, 26.09.1991.
56. Reasoning with Mass Distributions and the Context Model, ECSQAU, Marseille, 16.10.1991.
57. Fuzzy Logik vs. Bayes-Theorie: Unsicherheit in wissensbasierten Systemen, Informatik-Kolloquium, TU München, 16.01.1992.
58. Die Verarbeitung unsicheren Wissens: Fuzzy Logic und verwandte Modelle, Oberseminar Physik, Braunschweig, 22.01.1992.
59. Foundations of Fuzzy Control, Workshop on the Design and Analysis of Fuzzy Controllers, München, 13.02.1992.
60. On the Semantic Foundations of Fuzzy Probability Theory and Fuzzy Statistics, GAMM '92 Workshop, Freiberg, 22.03.1992.
61. Fuzzy Logic, Fachdidaktisches Seminar, Studienkommission für Hochschuldidaktik in Baden-Württemberg, Saig, 02.04.1992.
62. Fuzzy Logic vs. Bayes-Systeme, Informatik-Kolloquium, Uni Hildesheim, 16.06.1992.
63. The Context Model, IPMU '92, Tutorial on Uncertainty, Palma de Mallorca, 05.07.1992.
64. Possibility Theory and the Context Model, IPMU '92, Palma de Mallorca, 07.07.1992.
65. Semantical Aspects of Fuzzy Control, LIFE Institut, (two hours with english-japanese translation), Yokohama 20.08.1992.
66. Grundlagen der Fuzzy-Logik, CCG-Lehrgang "Fuzzy-Systeme", Braunschweig, DLR, 03.11.1992.
67. Prinzipien und Potentiale der Fuzzy-Systeme, CCG-Lehrgang „Fuzzy-Systeme“, Braunschweig, DLR, 03.11.1992.
68. Zur Interpretation von Fuzzy Controllern, VDE-Fachtagung "Technische Anwendungen von Fuzzy-Systemen", Dortmund, 12.11.92.

69. Information Compression in the Context Model, NAFIPS'92, Puerto de Vallerta, Mexico, 16.12.1992.
70. Fuzzy Systeme, VDE Regionalgruppe Braunschweig, 27.01.1993.
71. Unsicherheit und Vagheit, Kurs auf der 11.Frühjahrsschule KI in Günne/Möhnesee, 04.–05.03.1993.
72. On the Semantic Foundations of Fuzzy Probability Theory and Fuzzy Statistics, 7th Conference on the Scientific Use of Statistical Software, Heidelberg, 16.03.1993.
73. Fuzzy Control as Interpolation on the Basis of Equality Relations, IEEE int. Conference on Fuzzy Systems, San Francisco, 29.03.1993.
74. Management in Information Systems: from Needs to Solutions (National Science Foundation – ESPRIT II), Catalyna Island, 04.04.1993.
75. Updating Mechanismus for Imprecise Data, DRUMS Workshop on Belief Revision, Paris, 19.04.1993.
76. Interpolationstechniken in Fuzzy Systemen, Nachrichtentechnisches Kolloquium, Braunschweig, 04.05.1993.
77. Fuzzy Logik und verwandte Gebiete: Unsicherheit in wissensbasierten Systemen, GI-Regionalgruppe Braunschweig, 25.05.1993.
78. Grundlagen der Fuzzy Logik, Seminar für Automatisierung und Meßtechnik in der Zuckerindustrie, Braunschweig, 22.06.1993.
79. Fuzzy Control, Tutorium auf der FLAI'93, Linz, 28.06.1993.
80. Uncertainty and Vagueness in Expert Systems, 2nd Gauß-Symposium, München, 05.08.1993.
81. On the Semantical Foundations of Fuzzy Probability Theory and Fuzzy Statistics, International Symposium on Statistics with Imprecise Data, Innsbruck, 17.08.1993.
82. On the Extension of Probability Theory and Statistics to the Handling of Fuzzy Data, IFCS-93, Paris, 01.09.1993.
83. Theorie der Fuzzy Systeme, Tutorium auf dem Workshop Fuzzy-Systeme '93 , Braunschweig, 20.10.1993.
84. Fuzzy-Systeme – Grundlagen und Potentiale, CCG-Lehrgang Fuzzy-Systeme, Oberpfaffenhofen, 01.11.1993.

85. Fuzzy Logik und verwandte Gebiete, Kolloquium des Max Planck Instituts, Saarbrücken, 25.11.1993.
86. Fuzzy Control, Quantitativ ökonomisches Colloquium, Freie Universität Berlin, 03.02.1994.
87. Soft Computing, Kurs auf der 12. Frühjahrsschule KI in Günne/Möhnese, 01.03.1994.
88. Anwendungsbeispiel Leerlauffüllungsregelung VW Golf GTI, Technologie Gesprächsabend der IHK Hannover-Hildesheim über Kostendämpfer Fuzzy Logic, Hannover, 03.03.1994.
89. A fuzzy controller for Idle Speed Control, ACM Symposium on Applied Computing, Phönix, 06.03.1994 (participation at panel discussion "Applications of Fuzzy Systems" am 07.03.1994).
90. Was sind Fuzzy Systeme? Niedersächsisches Fuzzy Logik Forum, Braunschweig, 26.05.1994 (afterwards interview at broadcast DLF).
91. On an Information Compression View of Possibility Theory, IEEE World Congress on Computational Intelligence, Orlando, 28.06.1994.
92. Reasoning and Interpolation in Fuzzy-Systems, Workshop Mathematical and Statistical Methods in Artificial Intelligence, Udine, 06.09.1994.
93. Status of Fuzzy Logic Research and Neural Network Research in Lower Saxonia, VW Workshop on Fuzzy Engineering/Soft Computing, Wolfsburg, 13.09.1994.
94. Tutorium Fuzzy-Systeme, KI '94, Saarbrücken, 18.09.1994.
95. Focussing and Learning in Possibilistic Dependency Networks, Fuzzy-Systeme '94, München, 20.10.1994.
96. Fuzzy-Logik und Soft Computing, IBM Symposium Tendenzen in der Informationstechnik, Herrenberg, 27.10.1994.
97. Fuzzy-Systeme - Management unsicherer Informationen, Herbsttagung der Mathematischen Gesellschaft in Hamburg, 04.11.1994.
98. Fuzzy-Logik und Possibilitätstheorie - Management unsicheren Wissens, Kolloquium Intelligente Systeme für die Informations- und Automatisierungstechnik, TU Darmstadt, 23.11.1994.

99. Soft Computing, Jahrestagung der Arbeitsgemeinschaft für Fuzzy-Logik und Soft Computing in Norddeutschland, Hannover, 24.11.1994.
100. Fuzzy Systems in Computer Science, Jahrestagung "Les Applications des Ensembles Flous", Lille, 02.12.1994.
101. Modellierung von unsicherem und vagem Wissen, Institut für Medizinische Psychologie, München, 19.01.1995.
102. Fuzzy Systeme und Soft Computing. Auel EDV-Beratung GmbH, Braunschweig, 23.02.1995.
103. Approximatives Schließen, 5. Arbeitstreffen des Arbeitskreises 5 der GI-Fachgruppe 4.6.1, FAL Braunschweig, 02.-03.03.1995.
104. Deriving Fuzzy Controllers from Observed Process Data, 19. Jahrestagung der Gesellschaft für Klassifikation, Basel, 07.-10.03.1995.
105. Fuzzy Systeme und Soft Computing, CEBIT '95, 11.03.1995.
106. Learning Possibilistic Networks from Data, FUZZ-IEEE / IFES '95, Yokohama, 22.03.1995.
107. Soft Computing. Kurs auf der 13. Frühjahrsschule KL in Günne/ Möhnesee, 25.03.-01.04.1995.
108. Reasoning and Learning in Probabilistic Networks, 8th European Conference on Machine Learning, Heraklion, invited plenary talk, 23.-29.04.1995.
109. From Fuzzy Sets to Indistinguishability and Back, International ICSC Symposium on Fuzzy logic, ETH Zürich, 25.-28.05.1995. Teilnahme als Panelist zum Thema "Is Fuzzy Logic Going in the Right Direction?"
110. Wissensbasierte Systeme: Wie geht man mit unvollkommenem Wissen um, Wissenschaft als Zukunftskultur, Kongreß der Technischen Universität Braunschweig, 09.06.1995.
111. On The Semantics of Fuzzy Sets, topical Workshop Fuzzy in Theory and Practice, Clausthal Zellerfeld, 12.06.1995.
112. Soft Computing: Issues and Perspectives, ECSQARU'95, Fribourgh, 05.07.1995.
113. Derivation of Fuzzy Classification Rules from Multidimensional Data, Intelligent Data Analysis '95, Baden-Baden, 17.08.1995.

114. Kursus Neuronale Fuzzy-Systeme, Teil 1: Fuzzy-Systeme. Herbstschule Konnektionismus und Neuronale Netze (HeKoNN95), Münster/Westf. 02.–06.10.1995.
115. Automatic Generation of Fuzzy Controllers by Fuzzy Clustering, IEEE International Conference on Systems, Man and Cybernetics, Vancouver, 23.10.1995.
116. Fuzzy-Systeme: Perspektiven. Carl Cranz Gesellschaft, Oberpfaffenhofen, 07.11.1995.
117. Lernmethoden für Fuzzy-Systeme, Fuzzy-Neuro-Systeme'95, 3. Workshop, Darmstadt, 16.11.1995.
118. Lernmethoden für Fuzzy-Systeme, Informatik Kolloquium, Bremen, 29.11.1995.
119. Fuzzy-Systeme, Informatik Kolloquium, Hamburg, 04.12.1995.
120. Fuzzy Clustering, Seminar für Statistik, ETH Zürich, 11.12.1995.
121. Fuzzy Clustering, Daimler Benz Forschungszentrum, Ulm, 19.12.1995.
122. Learning Methods for Fuzzy Systems. Third International Conference of Fuzzy Set Theory and its Applications, Liptovský Mikuláš, 20.01.1996.
123. Lernmethoden für Fuzzy-Systeme, Informatik Kolloquium, Universität Dortmund, 12.02.1996.
124. Tutorial auf der Künstlichen Intelligenz Frühjahrsschule (KIFS '96) über Soft Computing, Günne am Mönnesee, 12.03.1996.
125. Learning Methods for Fuzzy Systems, Tutorial auf dem World Automation Congress, Montpellier, 27.05.1996.
126. Possibilistic Graphical Models and their Industrial Applications. IPMU '96, Granada, 04.07.1996.
127. Interpolative Reasoning as Basis of Fuzzy Control. NATO ASI on Soft Computing, Antalya, 26.08.1996.
128. Learning in Probabilistic and Possibilistic Networks. NATO ASI on Soft Computing, Antalya, 27.08.1996.
129. On a Tool for Possibilistic Reasoning in Relational Structures. 5. IEEE Conference on Fuzzy Systems, New Orleans, 11.09.1996.
130. Fuzzy Clustering in Data Analysis and Image Recognition. Workshop on Learning, Networks and Statistics, Udine, 20.09.1996.

131. Prinzipien und Potentiale der Fuzzy-Systeme, Carl Granz Gesellschaft, Oberpfaffenhofen, 05.11.1996.
132. Neuro-Fuzzy-Systeme, Auel, Braunschweig, 13.12.1996.
133. Intelligente Systeme – Wie geht man mit unvollkommenen Informationen um? Antrittsvorlesung, Magdeburg, 23.01.1997.
134. Lernverfahren in Fuzzy-Systemen, 6. Karlsruher Ökonometrie-Workshop, Karlsruhe, 20.03.1997.
135. Learning Methods in Fuzzy Systems, 8. International Symposium on Non-Linear Electromagnetic Systems (ISEM), Braunschweig, 14.05.1997.
136. Advanced Neuro Fuzzy Techniques applied to the German Stock Index DAX (eingeladener Vortrag), 3. Workshop on Data Fusion, Toulouse, 24.05.1997.
137. Neural Fuzzy Systems, Hamburg Symposium on Spatial Cognition and Soft Computing, Hamburg, 23.06.1997.
138. Learning Probabilistic and Possibilistic Networks (Plenary), 7. International Fuzzy Systems Association World Congress, Prag, 26.06.1997.
139. Fuzzy Cluster, Colloquium des Instituts für Statistik und Mathematik der J.W.Goethe-Universität (FB Wirtschaftswissenschaften), Frankfurt a. M., 16.07.1997.
140. On the Integration of Fuzzy Methods and Neural Net Techniques, Symposium on Hybrid Information Processing in Adaptive Autonomous Vehicles, Reinsburg, 23.07.1997.
141. Lernverfahren in Fuzzy-Systemen, Gastvortrag an der Technischen Universität Wien, 05.11.1997.
142. Lernverfahren in Fuzzy-Systemen, Technische Universität Cottbus, 18.11.1997.
143. Data Mining mit Possibilistischen Graphischen Modellen, Universität Dortmund, 12.12.1997.
144. Data Mining mit possibilistischen graphischen Modellen, Informatik Kolloquium, Erlangen, 02.02.1998.
145. Tutorial: Fuzzy und Neuro-Fuzzy-Systeme, Interdisziplinäres Kolleg (IK'98), Günne a. M., 07.-14.03.1998.

146. Einführung in Datenanalyse und Data Mining mit intelligenten Technologien, Bundesinstitut für Berufsbildung, Berlin, 16.03.1998.
147. Prediction of the German Stock Index DAX, Workshop Data Fusion, Sienna, 22.03.1998.
148. Data Mining, Firma Auel, Braunschweig, 24.04.1998.
149. Neue Entwicklungen im Data Mining mit Bayesschen Netzen, Seminar zur Anwendung von Fuzzy Technologien und Neuronalen Netzen, Wernigerode, 18.06.1998.
150. Data Mining (eingeladener Vortrag), Firma SAP, Walldorf, 06.07.1998.
151. Fuzzy Klassifikation, 7. Heidelberger Bildverarbeitungs Forum, Heidelberg, 07.07.1998.
152. Learning Possibilistic Networks: Data Mining Applications, BISC Seminar, Berkeley, 17.08.1998.
153. Possibilistic Networks: Data Mining Applications (plenary), 6. European Congress on Intelligent Techniques and Soft Computing (EUFIT'98), Aachen, 09.09.1998.
154. Data Mining with Graphical Models (eingeladener Eröffnungsvortrag), KI'98/UI'98, Bremen, 16.09.1998.
155. Fuzzy-Systeme: Wie geht man mit vagen, unvollkommenen Informationen um? (eingeladener Hauptvortrag), Herbsttagung Arbeitskreis Mathematikunterricht und Informatik, Wolfenbüttel, 01.10.1998.
156. Data Mining with Graphical Models, Workshop Computational Intelligence in Data Mining, Udine, Italien, 09.10.1998.
157. Data Mining mit Possibilistischen und Bayesschen Netzen (eingeladener Vortrag), MIT Symposium Anwendungen von Fuzzy Technologien und Neuronalen Netzen, Stuttgart, 12.11.1998.
158. Data Mining mit Neuro-Fuzzy Methoden (eingeladener Vortrag), Eröffnungsveranstaltung des Graduiertenkollegs Wissensrepräsentation, Leipzig, 11.12.1998.
159. On the Concept of Specialization in the Context of Belief Functions, Universität Bruxelles, 23.04.1999.
160. Data Mining mit Neuro-Fuzzy-Methoden, Kolloquium Neuroinformatik, Ulm, 05.05.1999.
161. Fuzzy-Logik in Konsumartikeln, Uni-Live im Allee-Center, Magdeburg, 06.05.1999.

162. Data Mining mit Neuro-Fuzzy-Methoden, E-Plus Kolloquium, Düsseldorf, 11.05.1999.
163. Data Mining mit Neuro-Fuzzy-Methoden, Informatik-Kolloquium der Universität Karlsruhe, 14.06.1999.
164. Problems of Adaptive Weights in Fuzzy Rule Learning, IASTED'99, Honolulu, Hawaii, 09.08.1999.
165. Fuzzy Data Analysis: Challenges and Perspectives (plenary), FUZZ-IEEE'99, Seoul, Korea, 25.08.1999.
166. Data Mining mit Neuro-Fuzzy-Systemen (eingel. Semi Plenary), Symposium on Operations Research, Magdeburg, 02.09.1999.
167. Data Mining - Status and Perspectives (plenary, opening), EUFIT'99, Aachen, 14.09.1999.
168. Bayessche Netze, Degussa, Hanau, 14.10.1999.
169. Lernende Systeme, Marie-Curie-Tag des Marie-Curie-Gymnasiums, Ludwigsfelde, 04.11.1999.
170. Data Mining mit Neuro-Fuzzy-Methoden, Beyersdorf, Hamburg, 09.11.1999.
171. Information Mining, British Telecom Kolloquium, Ipswich, England, 23.11.1999.
172. Information Mining, Status und Perspektiven (plenary) AFN-Jahrestagung, Goettingen, 01.12.1999.
173. Information Mining, GI-Regionalgruppe, Bremen, 14.12.1999.
174. Information Mining mit Neuro-Fuzzy-Systemen, Präsentationsforum der Cebit'2000, Hannover, 28.02.2000.
175. Einführung in Neuronale Netze, Lucent-Schulung , Nürnberg, 21.03.2000.
176. Fuzzy Methods for Data Analysis and Information Mining, Tutorium auf der FUZZ IEEE 2000 in San Antonio, 05.05.2000.
177. Information Mining mit Neuro-Fuzzy Methoden, Kolloquium der Universität Bayreuth, 08.06.2000.
178. Neuro-Fuzzy Data Analysis, COIL 2000 Workshop, Chios, Griechenland, 19.-23.06.2000.

179. Fuzzy Data Analysis, and Information Mining, Ehrenkolloquium L.A. Zadeh, Universität Hamburg, 26.06.2000.
180. Neuro-Fuzzy Systems, Dagstuhl-Seminar Intelligent Data Analysis, 16.08.2000.
181. Computational Intelligence, Universität Oviedo, 11.07.2000.
182. Information Fusion in Neuro-Fuzzy Learning, ISSEK Workshop, Udine, 05.-07.10.2000.
183. Data Mining with Possibilistic Networks (eingel. Hauptvortrag), LFA-Conference 2000, La Rochelle, 19.-21.10.2000.
184. Information Mining, Auel, Braunschweig, 09.11.2000.
185. Information Mining with Fuzzy Methods (plenary), SOFSEM 2000, Milovy, 25.11.-02.12.2000.
186. Data Mining mit Neuro-Fuzzy Systemen, Informatik-Forum, Passau, 05.12.2000.
187. Data Mining mit Neuro-Fuzzy-Systemen, Universität Linz, 12.03.2001.
188. Industrial Applications of Neuro-Fuzzy Networks, IDA Spring School 2001, Palermo, Italy, 27.03.2001.
189. Hirn-Computer-Vergleich, Wissenschaftsforum "Life Sciences live", Magdeburg, 15.05.2001.
190. Data Mining mit Neuro-Fuzzy-Methoden, Freie Universität Berlin, 01.06.2001.
191. Data Mining in der Bildverarbeitung, Abschlußpräsentation, FGAN/FOM, Ettlingen, 05.07.2001.
192. Information Mining, EUSFLAT 2001, Leicester, United Kingdom, 07.09.2001.
193. Information Mining with Relational and Possibilistic Graphical Models, NATO Advanced Research Workshop, Vila Real, Portugal, 25.10.2001.
194. Information Mining mit Neuro-Fuzzy Methoden, Workshop des GMA FA 5.22 Fuzzy Control, Dortmund, 29.11.2001.
195. Information Mining: Neue Trends 21. Sitzung des VDI/VDE -GMA Fachausschuss „Neuronale Netze und Evolutionäre Algorithmen“, Paderborn, 25.01.2002.
196. Information Mining, 7d, Hamburg, 08.03.2002.

197. Explorative Datenanalyse mit Neuro-Fuzzy Modellen, IAV, Gifhorn, 15.03.2002.
198. A Modification to Improve Possibilistic Fuzzy Cluster Analysis, FUZZ IEEE'02, Honolulu, 17.05.2002.
199. Learning Graphical Models by Extending Optimal Spanning Trees, IPMU'02, Annecy, Frankreich 02.07.2002.
200. Fuzzy-Methoden in der explorativen Datenanalyse, Festkolloquium anlässlich der Vollendung des 60. Lebensjahres von Prof. H.-J. Lenz, Berlin, 25.10.2002.
201. Information Mining with Fuzzy Methods: Trends and Current Challenges, (eingel. Hauptvortrag) MMAR'02, Stettin, Polen, 03.09.2002.
202. Fuzzy Rule Generation for Transfer Passenger Analysis, 1st International Conference on Fuzzy Systems and Knowledge Discovery (FSKD 2002), Singapur, 18.11.2002.
203. Data Mining with Graphical Models (eingeladen), 13th Int. Conf. on Algorithmic Learning Theory / 5th Conf, on Discovery Science (ALT/DS 2002), Lübeck, 26.11.2002.
204. Fuzzy-Methoden in der explorativen Datenanalyse, BMW Workshop Soft-Computing in der Umformtechnik, München, 29.11.2002.
205. Differentiated Treatment of Missing Values in Fuzzy Clustering, 10th International Fuzzy Systems Association World Congress (ISFA 2003), Istanbul, Türkei, 29.06.-02.07.2003.
206. Data Mining with Graphical Models, UK Workshop on Computational Intelligence, Bristol, UK, 01.-03.09.2003.
207. The Inherent Indistinguishability in Fuzzy Systems, Eingeladener Vortrag, Symposium on Logic versus Approximation, Schloss Dagstuhl, 23.-24.10.2003.
208. Data Mining: Status and Perspectives, Vortrag vor dem Deutschen Sparkassen- und Giroverband, 04.11.2003.
209. Data Mining with Graphical Models, Workshop Selbstoptimierung und Adaption, Paderborn, 24.-25.11.2003.
210. Data Mining with Graphical Models, Eingeladener Vortrag, Workshop on Theory and Applications of Relational Structures as Knowledge Instruments, Gent, 04.-05.12.2003.
211. Intelligent Data Analysis, IK 2004, Günne, 05.-12.03.2004.

212. Possibilistic and Probabilistic Graphical Models, Vortrag an der Universität Pavia, 29.04.2004.
213. Practical Implications of “Soft Computing” and Statistics in Consulting, eingeladener Vortrag, Second International Conference on Soft Methods, Oviedo, 02.–04.09.2004.
214. Graphische Modelle in komplexen industriellen Anwendungen, Informatik Kolloquium der Universität Konstanz, 24.11.2004.
215. Future Directions for Computational Intelligence, BT Workshop on Future Directions of Intelligent Systems and Applications, Ipswich, UK, 14.12.2004.
216. Graphical Models in Complex Industrial Applications, Conference on Recent Advances in Soft Computing RASC 2004, Nottingham, UK, 16.12.2004.
217. Knowledge-Based Operations on Graphical Models, eingeladener Vortrag, Dagstuhl-Seminar on Probabilistic, Logical and Relational Learning – Towards a Synthesis, Wadern, 02.02.2005.
218. Learning Methods for Graphical Models, University of Melbourne, Australien, 16.02.2005.
219. Graphical Models in Complex Industrial Applications, Intelligent Vehicles & Road Infrastructure Conference IVRI 2005, Melbourne, Australien, 17.02.2005.
220. Probabilistic Graphical Models in Complex Industrial Applications, Seminar on Soft Computing, Università degli Studi di Pavia, Pavia, Italien, 13.04.2005.
221. Data Mining – die Herausforderung an die Analyse medizinischer Daten – was leistet Computational Intelligence wirklich? , Fuzzy Seminar, Gießen, 22.05.2005.
222. Fuzzy Learning Vector Quantization with Size and Shape Parameters, Fuzz-IEEE 2005, Reno, USA, 24.05.2005.
223. Probabilistic Graphical Models in Complex Industrial Domains, Data-Mining-Cup Anwendertage 2005, Chemnitz, 16.06.2005.
224. Knowledge-Based Operations for Graphical Models in Planning, 8th European Conference, ECSQARU 2005, Invited plenary, Barcelona, Spanien, 06. 07.2005.
225. Fuzzy and Probabilistic Clustering with Shape and Size Constraints, 11th International Fuzzy Systems Association World Congress, Beijing, China, 28.–31.07.2005.
226. Data Mining with Graphical Models, Japanese-German Symposium on Classification, Shinagawa, Tokyo, Japan, 01. 09.2005.

227. Probabilistic Graphical Models in Complex Industrial Applications, 5th International Conference on Hybrid Intelligent Systems (HIS 2005), Rio de Janeiro, Brasilien, 07.11.2005.
228. Intelligente Datenanalyse in komplexen Anwendungen, Auel GmbH, Braunschweig, 09.02.2006.
229. Shape and Size Parameters in Fuzzy Clustering, Universität Granada, 16.02.2006.
230. Probabilistic and Possibilistic Graphical Models in Complex Applications, Sistemas Inteligentes & Soft Computing, Granada, 17.02.2006.
231. Item Planning with Graphical Models, Plenary talk, COGIS 2006, Paris, Frankreich, 15.03.2006.
232. Item Planning with Graphical Models, Universität Pavia, Italien, 21.04.2006.
233. Informationsfusion in Neuro-Fuzzy Systemen, Workshop Informationsfusion in der Mess- und Sensortechnik, Eisenach, 21.06.2006.
234. Computational Intelligence: Stand und Perspektiven, 6. Workshop Sportinformatik, Magdeburg, 22.06.2006.
235. Improved Classification of Surface Defects for Quality Control of Car Body Panels, WCCI 2006, Vancouver, 19.07.2006.
236. Finding the numbers of Fuzzy Clusters by Resampling, WCCI 2006, Vancouver, 18.07.2006.
237. Fusion of Quantitative and Qualitative Information, Int. Conf. on Multisensor Fusion and Integration for Intelligent Systems, Heidelberg, 03.09.2006.
238. Graphical Models in Complex Applications, EVIC 2006, Santiago, Chile, 14.12.2006.
239. Soft Computing in Intelligent Data Analysis, Siemens AG, München, 02.02.2007.
240. Intelligente Systeme, Volkshochschule Magdeburg, 15.02.2007.
241. Intelligente Systeme: Wie geht man mit vagen Informationen um?, Vortragsreihe zu Perspektiven der Informatik, Marburg, 16.05.2007.
242. An Extended Objective Function for Prototype-less Fuzzy Clustering, NAFIPS'07, San Diego, 26.2007.

243. Soft Computing for Intelligent Data Analysis, BT Research, Ipswich, UK, 19.07.2007.
244. The Role of Soft Computing in Intelligent Data Analysis (plenary) FUZZ- IEEE, London, UK, 23.07.2007.
245. Probabilistic Graphical Models for Data Mining and Planning in Automotive Industry (plenary) IEEE Int. Conf. on Tools with Artificial Intelligence, Patras, Griechenland, 29.–31.10.2007.
246. Probabilistic Graphical Models for Data Mining and Planning, Institute for Advanced Management Systems Research (IAMSR) of the Abo Akademi University at Turku, Finland, 23.01.2008.
247. Bayes Networks in Complex Applications, Soft computing and other advanced computational techniques, Universität von Pavia, Italien, 16.04.2008.
248. Mining Temporal Patterns in an Automotive Environment, IPMU-08, Torremolinos (Málaga), Spanien, 24.06.2008.
249. Bayes Networks in Automotive Industry, Dagstuhl-Seminar “Uncertainty Management in Information Systems”, Schloss Dagstuhl, 14.10.2008.
250. Data-Mining im Bereich Credit Risk PCC, Workshop Dresdner Bank, Frankfurt/Main, 02.12.2008.
251. Soft computing and other advanced computational techniques, Universität von Pavia, Italien, 15.–16.04.2008.
252. Mining Temporal Patterns in an Automotive Environment, IPMU-08, Torremolinos (Málaga), Spanien, 22.–27.06.2008.
253. Bayes Networks in Automotive Industry, Dagstuhl-Seminar “Uncertainty Management in Information Systems”, Schloss Dagstuhl, 14.10.2008.
254. Data-Mining im Bereich Credit Risk PCC, Workshop Dresdner Bank, Frankfurt/Main, 02.12.2008.
255. Soft computing and other advanced computational techniques, Universität von Pavia, Italien, 15.–16.04.2008.
256. Visual Data Analysis with Computational Intelligence Methods, Deutsch- Polnischer DFG-Workshop, Krakau, Polen, 15.06.2009.
257. Bayesian Networks, European Centre for Soft Computing, Universität Oviedo, Spanien, 14.–16.10.2009.

258. Soft Computing, Workshop Soft Computing: Where Theory Meets Applications (plenary opening), Trojanovice, Tschechien, 13.12.2009.
259. Temporal Pattern Mining, Freie Universität Berlin, 25.01.2010.
260. Uncertainty and Vagueness in Knowledge-Based Systems, SFB Transregio 62, Universität Ulm, 01.02.2010.
261. Data Mining Applications in the Automotive Industry, plenary, opening talk , 4th International Workshop on Reliable Engineering Computing, REC2010, Singapur, 03.03.2010.
262. Data Mining: Methoden und Anwendungen, Tag der Informatiklehrerinnen und -lehrer, Hannover, 11.03.2010.
263. Temporal Data Mining, Siemens AG, München, 24.06.2010.
264. Temporal Aspects in Data Mining (plenary, 1900 attendants), IEEE World Congress on Computational Intelligence 2010, Barcelona, 18.07.2010.
265. Temporal Data Mining, invited opening plenary, 7th IEEE International Conference on Signals and Electronic Systems (ICSES 2010), Gleiwitz, Polen, 07.09.2010.
266. Mining Temporal Data, Hauptvortrag, Second International Conference of Soft Computing and Pattern Recognition (SoCPaR 2010), Paris, Frankreich, 07.12.2010.
267. Clustering in High-Dimensional Data Spaces, Second Bilateral German-Polish Symposium on Data Analysis and its Applications (GPSDAA 2011), 16.04.2011.
268. Evolutionary Fuzzy Rules for Ordinal Binary Classification with Monotonicity Constraints, World Conference in Soft Computing, San Francisco, USA, 24.05.2011.
269. On the Usefulness of Fuzzy SVMs and the Extraction of Fuzzy Rules from SVMs, EUSFLAT 2011, Aix-Le-Bains, Frankreich, 20.07.2011.
270. Advanced Analysis of Dynamic Graphs in Social and Neural Networks, COST Action IC0702 – SoftStat, Rom, Italien, 20.03.2012.
271. Temporal Data Analysis, Department of Mechanical Engineering, Melbourne University, Australia, 06.06.2012.
272. Exploratory Data Analysis in Dynamic Environments (invited plenary), 3rd International Conference on Autonomous and Intelligent Systems (AIS 2012), Aveiro, Portugal, 25.-27.06.2012.

- 273. Datengetriebene Modellierung: Bayes-Netze am Beispiel der Teilebedarfsplanung bei Volkswagen, VDI-Fachtagung "Zustandsüberwachung und Optimierung 2013", Karlsruhe (Deutschland), 12.06.2013.
- 274. Datengetriebene Modellierung mit Bayes-Netzen, Informatik-Kolloquium, Universität Bremen, 27.05.2014.
- 275. Item Planning with Markov Networks, Efficient Variant & Complexity Management Berlin, 26.06.2014.
- 276. Item Planning with Markov Networks, 7ten internationalen Tagung IEEE Intelligent Systems, Warschau, invited plenary, 25.09.2014.
- 277. Bayesian Networks, University of Liverpool, Institute for Risk and Uncertainty, CDT Easter School, 16.04.2015.
- 278. Decomposable Models , 2nd European Summer School on Fuzzy Logic and Applications, Ostrava, Czech Republic, 17.8.2016.
- 279. Agglomerative fuzzy clustering, 8th International Conference on Soft Methods in Probability and Statistics in Rome, 12.9.2016.
- 280. Decomposable Models: On Learning, Fusion, and Revision, World Conference on Soft Computing in Berkeley, USA, invited plenary, 2016.
- 281. Modeling Self-Explanatory Big Data Applications, INNS Conference on Big Data, Thessaloniki, invited plenary, Greece, 24.10.2016
- 282. Decomposable Graphical Models in Industrial Applications: On Learning and Revision, Invited Plenary, Zakopane, Poland, ICAISC 2017, , invited plenary, 12.6.2017