

# Bibliography

## Books

1. R. Kruse and K. D. Meyer. Statistics with Vague Data. D. Reidel Publishing Company, Dordrecht, 1987.
2. R. Kruse, E. Schwecke and J. Heinsohn. Uncertainty and Vagueness in Knowledge Based Systems: Numerical Methods. Series Artificial Intelligence. Springer, Berlin, 1991.
3. R. Kruse and P. Siegel (Eds.). Symbolic and Quantitative Approaches to Uncertainty. Lecture Notes in Computer Science 548. Springer, Berlin, 1991.
4. R. Cordes, R. Kruse, H. Langendörfer und H. Rust. Prolog – Eine methodische Einführung. Vieweg Verlag, Wiesbaden, 1. Edition 1988, 2. Edition 1990, 3. Edition 1992.
5. M. Clarke, R. Kruse and S. Moral (Eds.). Symbolic and Quantitative Approaches to Uncertainty. Lecture Notes in Computer Science 747. Springer, Berlin, 1993.
6. R. Kruse, J. Gebhardt and F. Klawonn. Foundations of Fuzzy Systems. Wiley, Chichester, 1994.
7. R. Kruse, J. Gebhardt und R. Palm (Eds.). Fuzzy Systems in Computer Science. Series Artificial Intelligence. Vieweg, Wiesbaden, 1994.
8. R. Kruse, J. Gebhardt und F. Klawonn. Fuzzy-Systeme. Series Leitfäden und Monographien der Informatik. Teubner Verlag, Stuttgart, 1. Auflage 1993, 2. Auflage 1995.
9. G. Della Riccia, R. Kruse and R. Viertl (Eds.). Mathematical and Statistical Methods in AI. Springer, Wien, 1995.

10. D. Nauck, F. Klawonn und R. Kruse. Neuronale Netze und Fuzzy-Systeme. Series Computational Intelligence. Vieweg, Wiesbaden, 1. Edition 1994, 2. Edition 1996.
11. F. Höppner, F. Klawonn und R. Kruse. Fuzzy-Clusteranalyse. Verfahren für die Bilderkennung, Klassifikation und Datenanalyse. Series Computational Intelligence. Vieweg, Braunschweig, 1996.
12. D. Nauck, F. Klawonn and R. Kruse. Foundations of Neuro-Fuzzy Systems. Wiley, Chichester, 1997.
13. G. D. Riccia, H.-J. Lenz and R. Kruse, (Eds.) Learning, Networks and Statistics. Springer, Wien, 1997.
14. D. Gabbay, R. Kruse, A. Nonnengart and H. J. Ohlbach, (Eds.) Qualitative and Quantitative Practical Reasoning: ECSQARU/FAPR'97, Lecture Notes in Artificial Intelligence, 1244. Springer, Berlin, 1997.
15. J. Dassow und R. Kruse, (Eds.), Informatik'98: Informatik zwischen Bild und Sprache. Springer, Berlin, 1998.
16. F. Höppner, F. Klawonn, R. Kruse, T. Runkler, Fuzzy Clustering. Wiley, Chichester, 1999.
17. G. Della Riccia, R. Kruse, H.-J. Lenz, (Eds.) Computational Intelligence in Data Mining. Springer, Wien, 2000.
18. D. Gabbay, R. Kruse, (Eds.), Handbook of Defeasible Reasoning and Uncertainty Management Systems, Vol. 4, Abductive Reasoning and Learning, Kluwer, Dordrecht, 2000.
19. G. Della Riccia, H.-J. Lenz, R. Kruse (Eds.), Data Fusion and Perception, Springer, Wien, 2001.
20. C. Borgelt, R. Kruse, Graphical Models, Methods for Data Analysis and Mining, Wiley, Chichester, 2002.
21. K. Michels, F. Klawonn, R. Kruse und A. Nürnberg, Fuzzy-Regler: Grundlagen, Entwurf, Synthese, Springer, Heidelberg, 2002.
22. A. Günter, R. Kruse, B. Neumann, (Eds.) KI2003; Advances in Artificial Intelligence, Springer, Berlin, 2003.
23. Berthold, H. Lenz, E. Bradley, R. Kruse, C. Borgelt, (Eds.) Advances in Intelligent Data Analysis V, Springer Berlin, 2003.

24. C. Borgelt, F. Klawonn, R. Kruse, D. Nauck, *Neuronale Netze und Fuzzy-Mengen*, Vieweg, Wiesbaden, 2003.
25. G. Della Riccia, D. Dubois, R. Kruse, H. Lenz, (Eds.) *Planning Based on Decision Theory*, Springer, Wien, 2003.
26. I. Gerdes, F. Klawonn, R. Kruse. *Evolutionäre Algorithmen*. Vieweg, Wiesbaden, 2004.
27. K. Michels, R. Kruse, A. Nürnberger, *Fuzzy Control: Fundamentals, Stability and Design of Fuzzy Controllers*, Springer, Heidelberg, 2006.
28. G. Della Riccia, D. Dubois, R. Kruse, H. Lenz, (Eds.), *Decision Theory and Multi-Agent Planning*, Springer, Wien, 2006.
29. M. Spiliopoulou, R. Kruse, C. Borgelt, A. Nürnberger, W. Gaul, (Eds.) *From Data and Information Analysis to Knowledge Engineering, Studies in Classification, Data Analysis, and Knowledge Organization*, Springer, Berlin, 2006.
30. G. Della Riccia, D. Dubois, R. Kruse, H. Lenz, (Eds.) *Preferences and Similarities*, Springer, Wien, 2008.
31. C. Borgelt, M. Steinbrecher, R. Kruse, *Graphical Models: Representations for Learning, Reasoning and Data Mining*, 2nd Edition, Wiley, Chichester, 2009.
32. E. Hüllermeier, R. Kruse und F. Hoffmann (Eds.). *Computational Intelligence for Knowledge-Based System Design*, Vol. 6178 Lecture Notes in Artificial Intelligence. Springer, Berlin, Heidelberg, 2010.
33. E. Hüllermeier, R. Kruse und F. Hoffmann (Eds.). *Information Processing and Management of Uncertainty in Knowledge-Based Systems, Applications*, Volumes 80 and 81, *Communications in Computer and Information Science*. Springer, Berlin Heidelberg, 2010.
34. R. Kruse, C. Borgelt, F. Klawonn, C. Moewes, G. Ruß and M. Steinbrecher. *Computational Intelligence: Eine methodische Einführung in Künstliche Neuronale Netze, Evolutionäre Algorithmen, Fuzzy-Systeme und Bayes-Netze*. Series Computational Intelligence. Vieweg+Teubner, Wiesbaden, 2011.
35. R. Kruse, M. R. Berthold, C. Moewes, M. A. Gil, P. Grzegorzewski und O. Hryniwicz (Eds.), *Synergies of Soft Computing and Statistics for Intelligent Data Analysis*, Vol. 190 *Advances in Intelligent Systems and Computing (AISC)*, Springer, Heidelberg, 2013.

36. R. Kruse, C. Borgelt, F. Klawonn, C. Moewes, M. Steinbrecher and P. Held. Computational Intelligence: A Methodological Introduction. Texts in Computer Science. Springer, New York, 2013.
37. R. Kruse, C. Borgelt, C. Braune, F. Klawonn, C. Moewes, M. Steinbrecher. Computational Intelligence: Eine methodische Einführung in Künstliche Neuronale Netze, Evolutionäre Algorithmen, Fuzzy-Systeme und Bayes-Netze. 2nd Edition, Series Computational Intelligence. Vieweg+Springer, Wiesbaden, 2015.
38. R. Kruse, C. Borgelt, C. Braune, S. Mostaghim, M. Steinbrecher. Computational Intelligence: A Methodological Introduction. 2<sup>nd</sup> Revised Edition, Texts in Computer Science. Springer, New York, 2016.

## Chapters in Books

1. R. Kruse. Characteristics of Linguistic Random Variables. In: A. Di Nola and A. G. S. Ventre, eds., Topics in the Mathematics of Fuzzy Systems, 219–230. TÜV Rheinland, 1986.
2. R. Kruse, K.D. Meyer. Confidence Intervals for the Parameters of a Linguistic Random Variable. In: J. Kacprzyk and M. Fedrizzi, Eds., Combining Fuzzy Imprecision with Probabilistic Uncertainty in Decision Making, 113–123. Springer, Berlin, 1988.
3. R. Kruse, K.D. Meyer. On Calculating the Covariance in the Presence of Vague Data. In: W. H. Janko, M. Roubens, H. J. Zimmermann, eds., Progress in Fuzzy Sets and Systems. Kluwer, 1989.
4. R. Kruse. On the Semantic Foundations of Fuzzy Probability and Fuzzy Statistics. In H. Bandemer, Editor, Modeling Uncertain Data, 131–135. Akademie Verlag, 1992.
5. R. Kruse, J. Gebhardt and F. Klawonn. Numerical and Logical Approaches to Fuzzy Set Theory by the Context Model. In R. Lowen and M. Roubens, eds., Fuzzy logic: State of the Art, 365–376. Theory and Decision Library, Series D, Kluwer, 1993.
6. R. Kruse. The strong law of large numbers for fuzzy random variables. Information sciences, 28: 233–241, 1982. Reprint in D. Dubois, H. Prade and R. Yager, eds. Readings in Fuzzy Sets for Intelligent Systems, 272–276. Morgan Kaufmann, 1993.
7. R. Kruse and F. Klawonn. Mass Distributions on L-Fuzzy Sets and Families of Frames of Discernment. In R.R. Yager, M. Fedrizzi and J. Kacprzyk, eds., Advances in Dempster–Shafer–Theory of Evidence, 239–250. Wiley, 1994.

8. D. Nauck and R. Kruse. Neuro-Fuzzy Datenanalyse, AFN Jahrbuch'95, pp 5–16 Clausthal-Zellerfeld, 1995.
9. R. Kruse. Fuzzy-Systeme. In Zilahi-Szabo Hrsg., Kleines Wörterbuch der Informatik 208–212, Oldenbourg Verlag, München, 1995.
10. D. Nauck and R. Kruse. Neuro Fuzzy Systems Research and Applications outside of Japan (in Japanese). In M. Umano, I. Hayashi and T. Furuhashi eds., Fuzzy Neural Networks. 108–134, Soft Computing Series, Asakura Publ. Tokyo, 1996.
11. D. Nauck, R. Kruse. Designing Neuro-Fuzzy Systems through Backpropagation. In W. Pedrycz, Fuzzy Modelling. Paradigms and Practice. 203–228. Kluwer, Boston, 1996.
12. J. Gebhardt, R. Kruse. POSSINFER – A Software Tool for Possibilistic Inference. In D. Dubois, H. Prade and R.R. Yager eds., Fuzzy Set Methods in Information Engineering: A Guided Tour of Applications. 407–418, Wiley, New York, 1996.
13. M. Schröder, F. Klawonn and R. Kruse. Sequential Optimization of Multidimensional Controllers Using Genetic Algorithms and Fuzzy Situations. In F. Herrera and J. L. Verdegay eds., Genetic Algorithms and Soft Computing. 419–444, Physica-Verlag, Heidelberg, 1996.
14. R. Kruse. Beiträge zum Thema Fuzzy-Logik und Approximatives Schließen. In G. Strube Hrsg., Wörterbuch der Kognitionswissenschaft. Klett-Cotta, Stuttgart, 1996.
15. R. Kruse. Wissensbasierte Systeme. In: K.H. Glaßmeier und L. Tantow Hrsg., Wissenschaft als Zukunftskultur, Technische Universität Braunschweig, 1996.
16. C. Borgelt and R. Kruse. Probabilistic and Possibilistic Networks and How to Learn Them from Data. In O. Kaynak, L. A. Zadeh, B. Turksen and I.J. Rudas eds., Soft Computing and Its Applications, NATO ASI Series 7. Springer-Verlag, New York, 1997.
17. P. Smets and R. Kruse. The Transferable Belief Model for belief representation. In A. Motro and Rh. Smets eds., Uncertainty Management in Information Systems: from Needs to Solutions. Kluwer, Boston, 1997.
18. M. Schröder, R. Petersen, F. Klawonn and R. Kruse. Two Paradigms of Automotive Fuzzy Logic Application. In M. Jamshidi, A. Titli, S. Boverie and L. A. Zadeh eds., Application of Fuzzy Logic. Prentice Hall, New York, 1997.
19. J. Gebhardt and R. Kruse. Parallel combination of information sources. In D. Gabbay and P. Smets eds., Handbook of Defeasible Reasoning and Uncertainty Management Systems, Volume 1: Updating Uncertain Information. 47, Kluwer, Dordrecht, 1997.

20. J. Gebhardt, M. Gil and R. Kruse. Concepts of fuzzy-valued statistics. In R. Slowinski eds., International Handbook on Fuzzy Sets and Possibility Theory, Volume 4. 35, Kluwer, New York, 1997.
21. J. Gebhardt, M. A. Gil und R. Kruse. Fuzzy-set theoretic methods in statistics. In D. Dubois und H. Prade, eds., Handbook on Fuzzy Sets, Kapitel 10, Band 5. Kluwer, New York, 1997.
22. R. Kruse, J. Gebhardt und M. A. Gil. Fuzzy statistics. In John G. Webster, eds., Encyclopedia of Electrical and Electronics Engineering. Wiley, New York, 1997.
23. R. Kruse und F. Klawonn. Techniques and applications of control systems based on knowledge based interpolation. In C. T. Leondes, Herausgeber, Fuzzy Theory: Systems, Techniques and Application. Academic Press, San Diego, 1997.
24. Jörg Gebhardt, María Ángeles Gil and Rudolf Kruse, Concepts of fuzzy-valued statistics, pages 35, Kluwer, International Handbook on Fuzzy Sets and Possibility Theory, volume 4, 1997.
25. R. Kruse und D. Nauck. Neuro-fuzzy systems. In O. Kaynak, L. A. Zadeh, I. B. Türkmen und I. Rudas, Herausgeber, Soft Computing and its Applications, S. 241–270, NATO ASI Series F. Springer-Verlag, 1997.
26. A. Nürnberg, D. Nauck und R. Kruse. Neuro-fuzzy control based on the NEFCON model under MATLAB/SIMULINK. In Chawdry, Pravir and Roy, Rajkumar and Pant, R. K., Soft Computing in Engineering Design and Manufacturing. Springer-Verlag, London, 1997.
27. C. Borgelt, J. Gebhardt and R. Kruse. Handbook of Fuzzy Computation, Chapter F1.2: Inference Methods. Institute of Physics Publishing, New York, NY, USA, 1998.
28. D. Nauck und R. Kruse, Neuro-Fuzzy Systems, In: Handbook of Fuzzy Computation, E. Ruspini, P. Bonissone, and W. Pedrycz, Philadelphia, PA, 1998.
29. C. Borgelt und R. Kruse. Attributauswahlmaße für die Induktion von Entscheidungsbäumen: Ein Überblick. In Gholamreza Nakhaeizadeh, Herausgeber, Data Mining: Theoretische Aspekte und Anwendungen, S. 77–98. Physica-Verlag, Heidelberg, Germany, 1998.
30. J. Gebhardt und R. Kruse. Background to and perspectives of possibilistic graphical models. In Anthony Hunter und Simon Parsons, eds., Applications of Uncertainty Formalisms, S. 397–415. Springer, Heidelberg, 1998.

31. R. Kruse und D. Nauck. Neuro-fuzzy systems. In O. Kaynak, L.A. Zadeh, B. Turksen und I.J. Rudas, Herausgeber, Computational Intelligence: Soft Computing and Fuzzy-Neuro Integration with Application, S. 230–259. Springer, Berlin, 1998.
32. D. Nauck und R. Kruse. Neuro-fuzzy methods in fuzzy rule generation. In Didier Dubois und Henri Prade, (Eds.), Approximate Reasoning and Fuzzy Information Systems, Handbook of Fuzzy Sets. Kluwer, Norwell, MA, 1998.
33. D. Nauck und R. Kruse. Neuro-fuzzy systems. In E. Ruspini, P. Bonissone und W. Pedrycz, eds, Handbook of Fuzzy Computation. Institute of Physics Publishing Ltd., Philadelphia, PA, 1998.
34. C. Borgelt, J. Gebhardt, and R. Kruse, Fuzzy-Methoden in der Datenanalyse, In: Rudolf Seising (Eds.), Fuzzy-Theorie und Stochastik, pp. 370–386, Vieweg, Wiesbaden, Germany, 1999.
35. S. Siekmann, R. Neuneier, H. G. Zimmermann, and R. Kruse, Neuro-Fuzzy Methods Applied to the German Stock Index DAX, In: R.A. Ribero, H. G. Zimmermann, Ronald R. Yager, and J. Kacprzyk (Eds.), Soft Computing in Financial Engineering, Physica-Verlag, Heidelberg, 1999.
36. S. Siekmann, R. Kruse, R. Neuneier, and H. G. Zimmermann, Neuro-Fuzzy Methods For Data Analysis, In: L. Zadeh, and J. Kacprzyk (Eds.), Computing with Words in Information – Intelligent Systems 2, Physica-Verlag, 1999.
37. D. Nauck, and R. Kruse, Neuro-Fuzzy Methods in Fuzzy Rule Generation, In: James C. Bezdek, Didier Dubois, and Henri Prade (Eds.), Fuzzy Sets in Approximate Reasoning and Information Systems, 5, pp. 305–334, Kluwer Academic Publishers, Norwell, MA, 1999.
38. R. Kruse, J. Gebhardt und M. Gil, Fuzzy Statistics, In: Encyclopedia of Electrical and Electronics Engineering, Wiley, New York, 1999.
39. F. Klawonn, R. Kruse, Techniques and Applications of Control Systems Based on Knowledge-Based Interpolation, in C. Leondes, Fuzzy Theory Systems, Vol. 1, Academic Press, San Diego, 1999.
40. C. Borgelt, and R. Kruse, Probabilistic Networks for Abductive Inference, In: D. Gabbay, and R. Kruse (Eds.), Abductive Reasoning and Learning, Kluwer, Dordrecht, Netherlands, 2000.
41. C. Borgelt, H. Timm, and R. Kruse, Unsicheres und vages Wissen, pp. 291–386, In: Günther Görz (Eds.), Einführung in die Künstliche Intelligenz, Addison-Wesley, Bonn, Germany, 2000.

42. R. Kruse, Wie geht man mit unscharfen Informationen um?, H. Hischer, Modellbildung, Computer und Mathematikunterricht, di Verlag, Franzbecker, Hildesheim, pp. 79–83, 2000.
43. R. Kruse, C. Borgelt and D. Nauck, Problems and Prospects in Fuzzy Data Analysis, pp. 96–109, Behnam Azvine and Nader Azarmi and Detlef Nauck, Intelligent Systems and Soft Computing: Prospects, Tools and Applications, Springer, Berlin, 2000.
44. D. Nauck and R. Kruse, NEFCLASS–J-A JAVA-Based Soft Computing Tool, pp. 139–160, Behnam Azvine and Nader Azarmi and Detlef Nauck, Intelligent Systems and Soft Computing: Prospects, Tools and Applications, Springer, Berlin, 2000.
45. J. Grabmeier, J. Buhmann, R. Kruse and H. Timm, Segmentierende und clusterbildende Methoden, Chapter 3, H. Hippner and U. L. Küsters and M. Meyer, Handbuch Data Mining im Marketing. Knowledge Discovery in Marketing Databases, Vieweg, Wiesbaden, 2001.
46. C. Borgelt, H. Timm und R. Kruse, Probabilistic Networks and Fuzzy Clustering as Generalizations of Naive Bayes Classifiers, In: Computational Intelligence in Theory and Practice, Physica–Verlag, Heidelberg, Germany, 121–138, 2001.
47. A. Klose, A. Nürnberg, D. Nauck and R. Kruse, Data Mining with Neuro-Fuzzy Models, P1–36, A. Kandel and M. Last and H. Bunke, Data Mining and Computational Intelligence, Physica–Verlag, 2001.
48. A. Nürnberg, W. Pedrycz and R. Kruse, Classification: Neural Net Approaches, In: Handbook of Data Mining and Knowledge Discovery, pp. 304–317, Oxford University Press, 2002.
49. A. Klose, A. Nürnberg, D. Nauck and R. Kruse, Self–Organizing Maps for Interactive Search in Document Databases, In: P. S. Szczepaniak, J. Segovia, J. Kacprzyk, L. A. Zadeh (eds.), Intelligent Exploration of the Web, Physica–Verlag, 2002.
50. F. Klawonn, R. Kruse. The Inherent Indistinguishability in Fuzzy Systems in: W. Lenski (Ed.) Logic versus Approximation, pp 6–17, Lecture Notes in Computer Science Vol. 3075, Springer Berlin, Heidelberg, 2004.
51. R. Kruse. Geleitwort, VII–IX. In: R. Seising (Hrsg.), Die Fuzzifizierung der Systeme. Die Entstehung der Fuzzy Set Theorie und ihrer ersten Anwendungen, Boethius Band 54. Franz Steiner Verlag, Stuttgart, 2005.
52. J. Gebhardt, A. Klose, H. Detmer, F. Rügheimer, R. Kruse, Graphical Models for Industrial Planning on Complex Domains. In: G. Della Riccia, D. Dubois, R. Kruse und H.-J. Lenz (Eds.) Decision Theory and Multi-Agent Planning, CISM Courses and Lectures 482, pp. 131–143, Springer, 2006.

53. C. Borgelt, R. Kruse. Section 3.4: Artificial Intelligence Methods. In: A. Munak (Ed.), CIGR Handbook of Agricultural Engineering Volume VI: Information Technology, S. 153–168. American Society of Agricultural and Biological Engineers (ASABE), St. Joseph, MI, USA, 2006.
54. R. Kruse, C. Döring. Computational Intelligence: Stand und Perspektiven. In: J. Edelmann-Nusser und K. Witte (Eds.), Sport und Informatik IX, S. 29–36, Aachen, Shaker Verlag, 2006.
55. R. Kruse, C. Döring, M.-J. Lesot, Fundamentals of Fuzzy Clustering, in: Advances in Fuzzy Clustering and its Applications, pages 3–30, John Wiley and Sons, 2007.
56. M. Steinbrecher, R. Kruse. Visualization of Possibilistic Potentials. In: Foundations of Fuzzy Logic and Soft Computing, Bd. 4529 Lecture Notes in Computer Science, S. 295–303. Springer Berlin / Heidelberg, 2007.
57. M. Steinbrecher, R. Kruse. Visualizing Interesting Rules through Belief Network Inspection. In: V. Köppen und R. M. Müller (Hrsg.), Business Intelligence: Methods and Applications, Bd. 23 der Reihe Studien zur Wirtschaftsinformatik, S. 95–101. Verlag Dr. Kovac, Hamburg, 2007.
58. F. Rehm, F. Klawonn, R. Kruse. Efficient Visualization of High-Dimensional Data with Polar Coordinates. In: J. Wang (Hrsg.), Encyclopedia of Data Warehousing and Mining (2nd Edition). Idea Group Publishing, 2nd. Auflage, August 2008.
59. M. Steinbrecher, F. Rügheimer, R. Kruse. Application of Graphical Models in the Automotive Industry. In: D. Prokhorov (Hrsg.), Computational Intelligence in Automotive Applications, Bd. 132/2008 der Reihe Studies in Computational Intelligence, Chapter 5, pp. 79–88, Springer, Berlin 2008.
60. C. Borgelt, R. Kruse. Constraining Shape and Size in Clustering. In: A. Okada, T. Imaizumi, H.-H. Bock und W. Gaul (Hrsg.), Cooperation in Classification and Data Analysis, S. 13–25. Springer, Berlin, 2009.
61. M. Böttcher , G. Ruß, D. Nauck, R. Kruse. From Change Mining to Relevance Feedback: A Unified View on Assessing Rule Interestingness. In: Y. Zhao, L. Cao und C. Zhang (Eds.), Post-Mining of Association Rules: Techniques for Effective Knowledge Extraction, Information Science Reference, pp. 12–37. IGI Global, Hershey, New York, 2009.
62. S. Nusser, C. Otte, W. Hauptmann und R. Kruse. Learning Verifiable Ensembles for Classification Problems with High Safety Requirements. In: Intelligent Soft Computation and Evolving Data Mining: Integrating Advanced Technology. IGI Global, 2009.

63. F. Rehm, F. Klawonn, R. Kruse. Density-Based Multidimensional Scaling. In: A. Okada, T. Imaizumi, H.-H. Bock und W. Gaul (Eds.), Cooperation in Classification and Data Analysis, S. 53–60. Springer, Berlin, 2009.
64. R. Kruse, M. Steinbrecher, M. Böttcher. Temporal Aspects in Data Mining. In: J. Aranda und S. Xambo (Eds.), WCCI 2010 Plenary and Invited Lectures, S. 1–22. Institute of Electrical and Electronics Engineering, Inc., 2010.
65. C. Moewes, C. Otte, R. Kruse. Simple Machine Learning Approaches to Safety-Related Systems. In: R. K. De, D. P. Mandal und A. Ghosh (Hrsg.), Machine Interpretation of Patterns: Image Analysis and Data Mining, Bd. 11 der Reihe Statistical Science and Interdisciplinary Research, Kapitel 12, S. 231–249. World Scientific Publishing Co. Inc., Hackensack, NJ, USA, Juni 2010.
66. J. Beyer, K. Heesche, W. Hauptmann, C. Otte, R. Kruse. Ensemble Learning for Multi-source Information Fusion. In: D. K. Pratihar, L. C. Jain (Eds.), Intelligent Autonomous Systems, Studies in Computational Intelligence 275 , pp. 123–141, Springer, 2010.
67. R. Belohlavek, R. Kruse, C. Moewes. Fuzzy Logic in Computer Science. In: E. K. Blum, A. V. Aho (Eds.), Computer Science: The Hardware, Software and Heart of It, pp. 385–419. Springer Science, Business Media, New York, 2011.
68. G. Ruß, R. Kruse. Exploratory Hierarchical Clustering for Management Zone Delineation in Precision Agriculture. In: P. Perner (Ed.), Advances in Data Mining, Applications and Theoretical Aspects, Bd. 6870 LNAI, S. 161–173, Springer, Berlin, Heidelberg, August 2011.
69. P. Held, C. Moewes, C. Braune, R. Kruse, B. A. Sabel. Advanced Analysis of Dynamic Graphs in Social and Neural Networks. In: C. Borgelt, M. A. Gil, J. M. C. Sousa, M. Verleysen (Eds.), Towards Advanced Data Analysis by Combining Soft Computing and Statistics, Bd. 285 der Reihe Studies in Fuzziness and Soft Computing, S. 205–222. Springer, Berlin Heidelberg, 2012.
70. C. Moewes, R. Kruse. Fuzzy Control for Knowledge-Based Interpolation. In: E. Trillas, P. P. Bonissone, L. Magdalena, J. Kacprzyk (Eds.), Combining Experimentation and Theory: A Hommage to Abe Mamdani, Studies in Fuzziness and Soft Computing 271 , pp. 91–101, Springer, Berlin, 2012.
71. R. Winkler, R. Kruse, F. Klawonn. A New Distance Function for Fuzzy c-Means Clustering in High-Dimensional Spaces with Applications in S. O. D. A. In: J. Pociecha und R. Decker (Eds.), Data Analysis Methods and its Applications, pp. 91–107. Wydawnictwo C. H. Beck, Warszawa, 2012.
72. R. Kruse, P. Held, C. Moewes. On Fuzzy Data Analysis, Bd. 298 Studies in Fuzziness and Soft Computing, Chapter 49, pp. 351–356. Springer-Verlag, Heidelberg, 2013.

73. R. Winkler, F. Klawonn, R. Kruse. A New Distance Function for Prototype Based Clustering Algorithms in High Dimensional Spaces. In: Statistical Models for Data Analysis, S. 371–378. Springer, 2013.
74. C. Borgelt, C. Braune, H. Timm, R. Kruse, Unsicheres und vages Wissen In: Görz, Günther: Handbuch der Künstlichen Intelligenz, München, Oldenbourg, pp. 235–296, 2013.
75. C. Reichert, M. Kennel, R. Kruse, H.-J. Heinze, U. Schmucker, H. Hinrichs, J. W. Rieger. Brain–Controlled Selection of Objects Combined with Autonomous Robotic Grasping. In: Neurotechnology, Electronics, and Informatics, Revised Selected Papers from Neurotechnix 2013. A.R. Londral, P. Encarnaçao, J.L.S. Pons (Eds.), Series in Computational Neuroscience, Springer, Heidelberg, pp. 65–77, 2015.
76. C. Moewes, R. Mikut, R. Kruse: Fuzzy Control. In: J. Kacprzyk, W. Pedrycz: Handbook of Computational Intelligence, Springer, London, pp. 269–283, 2015.
77. Braune, C., Besecke, S., Kruse, R., Density based clustering – alternatives to DBSCAN In: Celebi, M. Emre (Eds.), Partitional Clustering Algorithms. Springer, Heidelberg, pp. 193–213, 2015.
78. Borgelt, C., Braune, C., Lesot, M.-J., Kruse, R.: Handling noise and outliers in fuzzy clustering. In: Fifty Years of Fuzzy Logic and its Applications. Springer International Publ., – (Studies in Fuzziness and Soft Computing; 326) 315–335, 2015.

## Papers Published in Refereed Professional Journals

1. R. Kruse, A Note on lambda-additive Fuzzy Measures, *Fuzzy Sets and Systems*, 8:219 – 222, 1982.
2. R. Kruse. On the Construction of Fuzzy Measures. *Fuzzy Sets and Systems*, 8:323–327, 1982.
3. R. Kruse. The strong law of large numbers for fuzzy random variables. *Information Sciences*, 28: 233–241, 1982.
4. R. Kruse. On the Entropy of Fuzzy Events. *Kybernetes*, 12:53–57, 1983.
5. R. Kruse. Fuzzy Integrals and Conditional Fuzzy Measures. *Fuzzy Sets and Systems*, 10:309–313, 1983.

6. R. Kruse. Statistical Estimation with Linguistic Data. *Information Sciences*, 33:197–207, 1984.
7. R. Kruse. Probabilistische Mengen. *Wiss. Abh. der Braunschweigischen wissenschaftlichen Gesellschaft*, 36:7 13, 1984.
8. P. Friedrich, R. Kruse und W. Struckmann. Ein softwaretechnisches Praktikum: Kooperation zwischen Hochschule und Industrie. *Angewandte Informatik*, 3:124–126, 1986.
9. R. Kruse. On the Entropy of Additive Fuzzy Measures. *Journal of Mathematical Analysis and Applications*, 122:589–595, 1987.
10. R. Kruse. On the Variance of Random Sets. *Journal of Mathematical Analysis and Applications*, 122:469–473, 1987.
11. R. Kruse, R. Buck-Emden and R. Cordes. Processor Power Considerations – an Application of Fuzzy Markov Chains. *Fuzzy Sets and Systems*, 21:289–299, 1987.
12. R. Kruse. On a Software Tool for Statistics with Linguistic Data. *Fuzzy Sets and Systems*, 24: 377–383, 1987.
13. R. Kruse and E. Schwecke. Fuzzy Reasoning in a Multidimensional Space of Hypotheses. *Int. Journal of Approximate Reasoning*, 4: 47–68, 1990.
14. R. Kruse and E. Schwecke. Specialization – A New Concept for Uncertainty Handling with Belief Function. *International Journal of General Systems*, 18 (1) 49–58, 1990.
15. R. Kruse, J. Gebhardt und F. Klawonn. Modellierung von Vagheit und Unsicherheit: Fuzzy Logic und andere Kalküle, KI, 4, 1991.
16. D. Nauck, F. Klawonn, R. Kruse. Fuzzy sets, fuzzy controllers, and neural networks. *Wissenschaftliche Zeitschrift der Humboldt–Universität zu Berlin, R. Medizin Band 41 Ausgabe 4 Seiten 99–120*, 1992.
17. J. Gebhardt and R. Kruse. The Context Model: An Integrating View of Uncertainty and Vagueness. *Int. J. of Approximate Reasoning* 9, 283–314, 1993.
18. F. Klawonn and R. Kruse. Equality Relations as a Basis for Fuzzy Control. *Fuzzy Sets and Systems* 54:147–156, 1993.
19. R. Kruse: Fuzzy–Systeme – einige Klarstellungen. *KI* 7(4): 73–74, 1993.
20. Philippe Besnard, Yves Moinard, Wilmer Pereira, Michael Clarke, Nic Wilson, Miguel Delgado, Serafín Moral, Juan Cano, Didier Dubois, Henri Prade, Luis Fariñas del Cerro,

Jérôme Lang, Stéphane Amarger, John Fox, Paul J. Krause, Michael Dohnal, Christine Froidevaux, Jérôme Mengin, Ramon López de Mántaras, Lluís Godó, E. H. Mamdani, John Bigham, Simon Parsons, Rudolf Kruse, Olivier Paillet, Pierre Siegel, Philippe Smets, Yen-Teh Hsia, Alessandro Saffiotti, Robert Kennes, Hong Xu, Elizabeth Umkehrer, Kurt Sundermeyer, Chris Whitney: DRUMS: Defeasible Reasoning and Uncertainty Management Systems. *AI Commun.* 6(1): 27–46, 1993.

21. F. Klawonn, R. Kruse. A Lukasiewicz Logic Based Prolog. *Mathware and Soft Computing*, 1:5–29, 1994.
22. M. Schröder, R. Kruse. Leistungsstarke Leerlauffüllungsregelung mit Fuzzy Control, *Mikro Elektronik*, 2/94:100–103, 1994.
23. H. R. Berenji, P. Bonissone, JC Bezdek, Didier Dubois, Rudolf Kruse, Henri Prade, Philippe Smets, RR Yager. A reply to the paradoxical success of fuzzy logic, *AI Magazine*, Vol 15, 1994.
24. R. Kruse, D. Nauck und F. Klawonn, Neuronale Fuzzy-Systeme, In: *Spektrum der Wissenschaft*, Juni(Heft 6/1995), 34–41, 1995.
25. Klawonn, J. Gebhardt, R. Kruse. Fuzzy Control on the basis of equality relations with an example from idle speed control. *IEEE Transactions on Fuzzy Systems* 3(3) 336–356, 1995.
26. J. Gebhardt und R. Kruse. Automated Construction of Possibilistic Networks from Data. *J. of Applied Mathematics and Computer Science*. 3/6: 101–136, 1996.
27. R. Kruse. Fuzzy-Systeme – Positive Aspekte der Unvollkommenheit. *Informatik-Spektrum*, 19(1). 4–11, 1996.
28. R. Kruse, F. Klawonn und D. Nauck. Erlernen von Fuzzy-Regeln. *Informatik: Forschung und Entwicklung* 12(1). 2–6. 1997.
29. F. Klawonn, R. Kruse. Constructing a Fuzzy Controller from Data. *Fuzzy Sets and Systems* 85. 177–193, 1997.
30. K. Michels and R. Kruse. Numerical Stability Analysis for Fuzzy Control. *International Journal of Approximate Reasoning*. Volume 16, Issue 1, Pages 3–24, 1997.
31. C. Borgelt und R. Kruse, Probabilistic Networks and Inferred Causation, In: *Cardozo Law Review*, Cardozo School of Law, Yeshiva University, New York, NY, USA, 18(6), 2001–2035, 1997.
32. R. Kruse, F. Klawonn und D. Nauck. Erlernen von Fuzzy-Regeln. *Informatik, Forschung und Entwicklung*, 12(1):2–6, 1997.

33. R. Kruse, D. Nauck und F. Klawonn. Neuronale Fuzzy-Systeme. Spektrum der Wissenschaft, Dossier 4/97: Kopf oder Computer, S. 92–99, 1997.
34. D. Nauck und R. Kruse. A neuro-fuzzy method to learn fuzzy classification rules from data. *Fuzzy Sets and Systems*, 89:277–288, 1997.
35. D. Nauck und R. Kruse. NEFCLASS-X – a soft computing tool to build readable fuzzy classifiers. *BT Technology Journal*, 16(3):180–190, 1998.
36. C. Borgelt, R. Kruse und G. Lindner. Lernen probabilistischer und possibilistischer Netze aus Daten: Lernen probabilistischer und possibilistischer Netze aus Daten: Theorie und Anwendung, In: KI-Themenheft Data Mining, 11–17, 1998.
37. R. Kruse, Intelligente Systeme: Wie geht man mit unvollkommenen Informationen um? Antrittsvorlesung an der Fakultät für Informatik, In: Universitätsschriften, Universität Magdeburg, 107–122, 1998.
38. D. Nauck und R. Kruse, NEFCLASS-X – A Soft Computing Tool to Build Readable Fuzzy Classifiers, In: *BT Technology Journal*, 16(3), 180–190, 1998.
39. D. Nauck und R. Kruse. Neuro-fuzzy systems for function approximation, *Fuzzy Sets and Systems* 101, 261–271, 1999.
40. A. Nürnberg, D. Nauck, and R. Kruse, Neuro-Fuzzy Control Based on the NEFCON-Model, In: *Soft Computing*, 2:4, pp. 182–186, Springer, Berlin, 1999.
41. D. Nauck, and R. Kruse, Neuro-Fuzzy Systems for Function Approximation, In: *Fuzzy Sets and Systems*, 101, pp. 261–271, 1999.
42. R. Kruse, Neuronale Fuzzy-Systeme in der Datenanalyse, In: *Magdeburger Wissenschaftsjournal*, 2, 1999.
43. D. Nauck, and R. Kruse, Obtaining Interpretable Fuzzy Classification Rules from Medical Data, In: *Artificial Intelligence in Medicine*, 16, pp. 149–169, 1999.
44. S. Siekmann and R. Kruse and J. Gebhardt, F. van Overbeek and R. Cooke, Information Fusion in the Context of Stock Index Prediction, *International Journal of Intelligent Systems*, 11, P1285–1298, 2001.
45. C. Borgelt and R. Kruse, Unsicherheit und Vagheit: Begriffe, Methoden, Forschungsthemen, Künstliche Intelligenz, Themenheft Unsicherheit und Vagheit, Vol. 3, pp.5–8, 2001.

46. A. Appriou, A. Ayoun, S. Benferhat, P. Besnard, I. Bloch, L. Cholvy, R. Cooke, F. Cuppens, D. Dubois, H. Fargier, M. Grabisch, A. Hunter, R. Kruse, J. Lang, S. Moral, H. Prade, A. Saffiotti, P. Smets and C. Sossai, Fusion: General Concepts and Characteristics, *Intl. J. of Intelligent Systems*, 10, pp. 1107–1134, 2001.
47. A. Nürnberg, A. Radetzky, R. Kruse, Using Recurrent Neuro-Fuzzy Techniques for the Identification and Simulation of Dynamic Systems, *Neurocomputing*, 36, pp. 123–147, 2001.
48. A. Nürnberg, R. Kruse, A Neuro-Fuzzy Approach to Optimise Hierarchical Recurrent Fuzzy Systems. *Fuzzy Optimization and Decision Making* 1.2, 221–248, 2002.
49. A. Nürnberg, A. Klose, R. Kruse, G. K. Hartmann, M. Richards, SomAccess – Ein Softwareprototyp zur interaktiven Navigation in Textdatenbanken, *Künstliche Intelligenz*, 3:02, pp. 59–64, 2002.
50. J. Marx-Gómez, C. Rautenstrauch, A. Nürnberg, and R. Kruse, Neuro-fuzzy approach to forecast returns of scrapped products to recycling and remanufacturing, *Knowledge-Based Systems*, 15:2, pp. 119–128, 2002.
51. C. Borgelt, R. Kruse, Learning from imprecise data possibilistic graphical models, *Computational Statistics and Data Analysis* 38, 449–463, 2002.
52. C. Borgelt, R. Kruse, Learning Possibilistic Graphical Models from Data, *IEEE Transaction Fuzzy Systems* 11, Issue 2, pp. 159–172, 2003.
53. C. Borgelt, R. Kruse, Operations and Evaluation Measures for Learning Possibilistic Graphical Models, *Artificial Intelligence* 148, pp.385–418, 2003.
54. H. Timm, C. Borgelt, C. Döring, R. Kruse. An Extension to Possibilistic Fuzzy Cluster Analysis. *Fuzzy Sets and Systems* 147:3–16 Amsterdam, Netherlands 2004.
55. H. Timm, C. Döring, and R. Kruse. Different approaches to fuzzy clustering of incomplete datasets. *International Journal of Approximate Reasoning*, 35:239–249, 2004.
56. J. Gebhardt, C. Borgelt, R. Kruse, H. Detmer. Knowledge Revision in Markov Networks. *Mathware & Soft Computing* vol XI n. 2–3:93–107. Universitat Politècnica de Catalunya, Barcelona, Spain 2004.
57. C. Borgelt, R. Kruse. Probabilistische grafische Modelle und ihre Anwendung in der Automobilindustrie. *Datenbank Spektrum – Zeitschrift für Datenbanktechnologie Heft* 9. Pp. 18–23, 2004.

58. H. Timm, C. Borgelt, C. Döring and R. Kruse, An Extension to Possibilistic Fuzzy Cluster Analysis, In: *Fuzzy Sets and Systems*, Vol. 147, pp. 3–16. 2004.
59. H. Timm, C. Döring and R. Kruse, Different approaches to fuzzy clustering of incomplete datasets, In: *International Journal of Approximate Reasoning*, Vol. 35, 239–249, 2004.
60. A. Eichhorn, D. Girimonte, A. Klose, R. Kruse, Soft Computing for Automated Surface Quality analysis of Exterior car body Panels, *Appl. Soft Computing Journal*, pp.301–313, 2005.
61. A. Klose, K. Michels and R. Kruse, Semi-supervised learning in knowledge discovery, In: *Fuzzy Sets and Systems*, Vol. 149, 209–233, 2005.
62. M. Böttcher, D. Nauck, C. Borgelt and R. Kruse, A Framework for Discovering Interesting Business Changes from Data, In: *BT Technology Journal*, Vol. 24, No. 2, 219–228, 2006.
63. C. Döring, M.-J. Lesot and R. Kruse, Data analysis with fuzzy clustering methods, In: *Computational Statistics & Data Analysis*, Vol. 51, No. 1, 192–214, 2006.
64. F. Rehm, F. Klawonn and R. Kruse, Visualization of Fuzzy Classifiers, In: *International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems*, Vol. 15, No. 5, 615–624, 2007.
65. F. Rehm, F. Klawonn and R. Kruse, A novel approach to noise clustering for outlier detection, In: *Soft Computing*, Vol. 11, No. 5, 489–494, 2007.
66. X. Wang, D. Nauck, M. Spott and R. Kruse, Intelligent data analysis with fuzzy decision trees, In: *Soft Computing*, Vol. 11, No. 5, 439–457, 2007.
67. S. Kempe, J. Hipp, C. Lanquillon und R. Kruse. Mining frequent temporal patterns in interval sequences. *International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems (IJUFKS)*, 16(5):645–661, Oktober 2008.
68. R. Kruse und C. Moewes. Fuzzy neural network. *Scholarpedia*, 3(11):6043, 2008.
69. J. W. Rieger, C. Reichert, K. R. Gegenfurtner, T. Noesselt, C. Braun, H.-J. Heinze, R. Kruse und H. Hinrichs. Predicting the recognition of naturalscenes from single trial MEG recordings of brain activity. *NeuroImage*, 42(3):1056–1068, September 2008.
70. M. Böttcher, M. Spott, D. Nauck und R. Kruse. Mining changing customer segments in dynamic markets. *Expert Systems with Applications*, 36(1):155–164, 2009.

71. C. Moewes und R. Kruse. Zuordnen von linguistischen Ausdrucken zu Motiven in Zeitreihen. *at-Automatisierungstechnik*, 57(3):146–154, März 2009.
72. S. Nusser, C. Otte, W. Hauptmann, O. Leirich, M. Kratschmer und R. Kruse. Maschinelles Lernen von validierbaren Klassifikatoren zur autonomen Steuerung sicherheitsrelevanter Systeme. *at-Automatisierungstechnik*, 57(3):138–145, 2009.
73. T. Günther, I. Mueller, M. Preuss, R. Kruse, B. A. Sabel: A Treatment Outcome Prediction Model of Visual Field Recovery Using Self-Organizing Maps. *IEEE Trans. Biomed. Engineering* 56(3): 572–581, 2009.
74. R. Kruse und M. Steinbrecher. Visual data analysis with computational intelligence methods. *Bulletin of the Polish Academy of Sciences*, 58(3), 2010.
75. M. Steinbrecher und R. Kruse. Visualizing and fuzzy filtering for discovering temporal trajectories of association rules. *Journal of Computer and System Sciences*, 76(1):77–87, Februar 2010.
76. R. Winkler, F. Klawonn, and R.Kruse. Fuzzy c-means in high dimensional spaces. *IJFSA*, 1(1):1–16, 2011.
77. R Winkler, F. Klawonn, R. Kruse. Fuzzy clustering with polynomial fuzzifier function in connection with m-estimators. *Applied and Computational Mathematics, Special Issue on Fuzzy Set Theory and Applications*, pages 146–163. 2011.
78. B. A. Sabel, R. Kruse, F. Wolf und T. Günther. Local topographic influences on vision restoration hotspots after brain damage. *Restorative neurology and neuroscience*, 31(6):787–803, 2013.
79. C. Borgelt, R. Kruse, Bedeutung von Zugehörigkeitsgraden in der Fuzzy-Technologie, *Spektrum der Informatik* 10, 2015.
80. F. Klawonn, R. Kruse, R. Winkler Fuzzy clustering: More than just fuzzification. *Fuzzy Sets and Systems* 7, 281, Special Issue on 50 Years of Fuzzy Systems, 2015.
81. C. Borgelt und R. Kruse. Bedeutung von Zugehörigkeitsgraden in der Fuzzy-Technologie. *Informatik-Spektrum*, 38(6):490–499, 2015.
82. P. Held, A. Dockhorn und R. Kruse. On Merging and Dividing Social Graphs. *Journal of Artificial Intelligence and Soft Computing Research*, 5(1):23–49, 2015.
83. Christoph Reichert, Stefan Dürschmid, Rudolf Kruse, und Hermann Hinrichs. „An Efficient Decoder for the Recognition of Event-Related Potentials in High-Density MEG Recordings“. *Computers*, vol. 5, no. 2, 2016.

84. K. Loewe, S. E. Donohue, M. A. Schoenfeld, R. Kruse, C. Borgelt, Memory-efficient analysis of dense functional connectomes, *Frontiers of Neuroinformatics* 10:50. 2016
85. A. Meier, M. Gonter, R. Kruse Künstliche Intelligenz zur Entwicklung einer Unfallschwereprognosefunktion, *ATZ – Automobiltechnische Zeitschrift* 5. 2017

## Papers Published in Refereed Conferences and Symposia

1. R. Kruse. On a Language and an Interpreter for Calculation and Statistics on Linguistic Data. In Proc. First IFSA Congress. Palma de Mallorca, 1986.
2. R. Kruse and K.D. Meyer. Statistics with Fuzzy Data. In Proc. of the NAFIPS Conference. New Orleans, 1986.
3. R. Kruse and K.D. Meyer. Confidence Intervals for the Parameter of the Normal Distribution in the Presence of Vague Data. In Proc. of the Polish Symposium on Interval and Fuzzy Mathematics. Poznan, 1986.
4. R. Kruse and K.D. Meyer. A consistent Variance Estimator in the Presence of Vague Data. In Proc. First Joint IFSA EC and EURO WG Workshop on Progress in Fuzzy sets in Europe. Warsaw, 1986.
5. R. Kruse and K.D. Meyer. Fuzzy Markov Chains and their Application to Processor Power Considerations. In Proc. of the XIth Polish Conference in the Theory of Machines and Mechanisms. Zakopane, 1987.
6. R. Kruse and K.D. Meyer. Parametric Statistics in the Presence of Vague Data. In Proc. of the Second IFSA Congress. Tokio, 1987.
7. R. Kruse and K.D. Meyer. On Linguistic Modelling and Linguistic Approximation in the Presence of Vague Data. In Proc. of the International Symposium on Fuzzy Systems and Knowledge Engineering. Guangzhou Guiyang, 1987.
8. R. Kruse, M. Eike und J. Freckmann. Ein Programmsystem für statistische Untersuchungen mit unscharfen Daten. In Proc. der 4. Konferenz über die wissenschaftliche Anwendung von Statistik Software. Heidelberg, 1987. Also in F. Faulbaum and H. Uehlinger (Eds.), *Fortschritte der Statistik Software 1*. Gustav Fischer Verlag, Stuttgart, 1988.

9. R. Kruse, J. Gebhardt and J. Knop. On a Dialog System for Modelling and Statistical Analysis of Linguistic Data. In B. Fuchssteiner, T. Lengauer and H. Skala, eds., Methods of Operations Research 60, Anton Hain Verlag, 1988.
10. R. Kruse and E. Schwecke. Fuzzy Reasoning in a Multidimensional Space of Hypotheses. In Proc. of the NAFIPS Conference. San Francisco, 1988.
11. R. Kruse, J. Gebhardt and J. Knop. On a Dialog System for Modelling and Statistical Analysis of Linguistic Data. In Proc. of the 13. Symposium of Operations Research, Paderborn, 1988.
12. R. Kruse and K.D. Meyer. On Calculating the Covariance in the Presence of Vague Data. In Proc. IFSA EC EURO WG Meeting. Wien, 1988.
13. R. Kruse und J. Gebhardt. Statistische Untersuchungen anhand von vagen Daten. In D. Pressmar et al, Hrsg., Operations Research Proceedings, 17te DGOR Jahrestagung. Springer Verlag, Berlin, 1988.
14. R. Kruse and E. Schwecke. On the Treatment of Cyclic Dependencies in Causal Networks. In Proc. 3rd IFSA Congress. Seattle, 1989.
15. R. Kruse and J. Gebhardt. On a Dialog System for Modelling and Statistical Analysis of Linguistic Data. In Proc. 3rd IFSA Congress. Seattle, 1989.
16. P. Friedrich, R. Kruse und W. Struckmann. Das Salzgittermodell: Ein Beispiel für die Zusammenarbeit zwischen Hochschule und Industrie bei der Entwicklung komplexer Software Systeme. In Proc. 8. GI Fachgespräch über Rechenzentren. Düsseldorf, 1989.
17. J. Gebhardt and R. Kruse. Some New Aspects of Testing Hypotheses in Fuzzy Statistics. In Proc. of the NAFIPS Conference. Toronto, 1990.
18. R. Kruse and E. Schwecke. On the Representation of Uncertain Knowledge in the Context of Belief Functions. In Proc. 8th International Congress of Cybernetics and Systems. New York, 1990.
19. R. Kruse and J. Gebhardt. New Methods in Statistics with Vague Data. In Proc. 4rd IFSA Conference, Brüssel, 1991.
20. J. Gebhardt and R. Kruse. An Integrating Model of Partial Ignorance. In Proc. 4rd IFSA Conference. Brüssel, 1991.
21. J. Gebhardt and R. Kruse. An Integrating Model of Uncertainty and Vagueness. In Proc. of the NAFIPS 91 Conference. Columbia, 1991.

22. R. Kruse, F. Klawonn and D. Nauck. Reasoning with Mass Distributions. In B. D'Ambrosio, P. Smets and P.P. Bonissone, eds., Uncertainty in Artificial Intelligence, Proc.7th Conference on Uncertainty in Artificial Intelligence. Los Angeles, 1991.
23. R. Kruse, E. Schwecke and F. Klawonn. On a Tool for Reasoning with Mass Distributions. In Proc. 12. Joint Conference on Artificial Intelligence. Sidney, 1991.
24. R. Kruse, J. Gebhardt and F. Klawonn. Reasoning with Mass Distributions and the Context Model. In R. Kruse and P. Siegel, eds., Symbolic and Quantitative Approaches to Uncertainty. Lecture Notes in Computer Science. Springer Verlag, 1991.
25. J. Gebhardt, R. Kruse und D. Nauck. Interpretation und Analyse von Fuzzy Daten. In Proc. DGOR. Stuttgart, 1991.
26. R. Kruse and E. Schwecke. On the Combination of Information Sources. In Proc. 3rd IPMU Conference. Paris, 1990. In: B. Bouchon Meunier, R.R. Yager and L.A. Zadeh, eds., Uncertainty in Knowledge Bases, 24–30. Lecture Notes in Computer Sciences 521, Springer, Berlin, 1992.
27. J. Gebhardt and R. Kruse. A Possibilistic Interpretation of Fuzzy Sets by the Context Model. In Proc. IEEE International Conference on Fuzzy Systems. San Diego, 1992.
28. F. Klawonn, J. Gebhardt and R. Kruse. Logical Approaches to Uncertainty and Vagueness in the View of the Context Model. In Proc. IEEE International Conference on Fuzzy Systems. San Diego, 1992.
29. R. Kruse und F. Klawonn. Numerische Methoden zur Verarbeitung unsicherer Informationen in wissensbasierten Systemen. In Konzeption und Einsatz von Umweltinformationssystemen, 169–176. Informatik Fachberichte. Springer Verlag, Berlin, 1992.
30. J. Gebhardt and R. Kruse. Possibility Theory and the Context Model. In Proc. IPMU. Palma de Mallorca, 1992.
31. J. Gebhardt, R. Kruse and D. Nauck. Information Compression in the Context Model. In Proc. NAFIPS. Puerto Vallarta, 1992.
32. R. Kruse und J. Gebhardt. Zur Interpretation von Fuzzy Controllern. In Proc. VDE Fachtagung Technische Anwendungen von Fuzzy Systemen. Dortmund, 1992.
33. D. Nauck, F. Klawonn and R. Kruse. Fuzzy Sets, Fuzzy Controller and Neural Networks. In Proc. Physiological Aspects of Regulation between Chaos and Reflex. Potsdam, 1992.

34. D. Nauck and R. Kruse. Interpreting Changes in the Membership Functions of a Self Adaptive Neural Fuzzy Controller. In Proc. 2nd Int. Workshop Industrial Applications of Fuzzy Control and Intelligent Systems. College Station, 1992.
35. D. Nauck and R. Kruse. Neural Fuzzy Controller Learning by Fuzzy Error Propagation. In Proc. NAFIPS. Puerto Vallarta, 1992.
36. D. Nauck, F. Klawonn, R. Kruse and U. Lohs. Reasoning under Uncertainty with Temporal Aspects. In F. Belli and F.J. Radermacher eds., Industrial and Engineering Application of Artificial Intelligence and Expert Systems, 572–580. Lecture Notes in Artificial Intelligence. Springer Verlag, Berlin, 1992.
37. F. Klawonn and R. Kruse. Fuzzy Control as Interpolation on the Basis of Equality Relations. In Proc. 2nd IEEE International Conference on Fuzzy systems. San Francisco, 1993.
38. F. Klawonn, J. Gebhardt and R. Kruse. The Context Model from the Viewpoint of Logic. In K.-W. Hansmann, A. Bachem, M. Jarke, W.E. Katzenberger und A. Marusev, eds., Operations Research Proceedings 1992, 288–295. Springer Verlag, Berlin , 1993.
39. D. Nauck, F. Klawonn and R. Kruse. Combining Neural Networks and Fuzzy Controllers. In E.P. Klement and W. Slany, eds., Fuzzy Logic in AI, Conference Proceedings, 35–46. Lecture Notes AI, 695. Linz, 1993
40. R. Kruse. Fuzzy Probability Theory and Fuzzy Statistics. In Proc. der Softstat'93. Heidelberg, 1993.
41. J. Gebhardt, R. Kruse, C. Otte and M. Schröder. A Fuzzy Idle Speed Controller. In Proc. 26th International Symposium on Automotive Technology and Automation. Aachen, 1993.
42. R. Kruse and M. Schröder. An Application of Equality Relations to Idle Speed Control In Proc. of the 1. European Congress on Fuzzy and Intelligent Technologies. Aachen, 1993.
43. R. Kruse. On the Extension of Probability Theory and Statistics to the Handling of Fuzzy Data. In Proc. of the 4th Conference on the International Federation of Classification Societies. Paris, 1993.
44. R. Kruse, J. Gebhardt and F. Klawonn. On the Interpretation of Fuzzy Controllers. In Proc. of the 5th IFSA World Congress. Seoul, 1993.
45. P. Smets and R. Kruse. The Transferable Belief Model for Belief Representation. In Proc. of the Invitational Workshop on Uncertainty Management in Information Systems. Catalina Island, 1993.

46. J. Gebhardt and R. Kruse. A New Approach to Semantical Aspects of Possibilistic Reasoning. In M. Clarke, R. Kruse and S. Moral, eds., Symbolic and Quantitative Approaches to Reasoning and Uncertainty. Lecture Notes in Computer Science, 747. Springer Verlag, 1993.
47. R. Kruse and J. Gebhardt. Fuzzy Probability Theory and Fuzzy Statistics. In F. Faulbaum, Hrsg., Softstat'93: Advances in Statistical Software, 605–610. Gustav Fischer Verlag, Stuttgart, 1993.
48. J. Gebhardt and R. Kruse. A Numerical Framework for Possibilistic Abduction. In Proc. Int. Conf. on Information Processing and Management of Uncertainty in Knowledge-Based Systems (IPMU'94). Paris, 1994.
49. J. Gebhardt and R. Kruse. On an Information Compression View of Possibility Theory. In Proc. 3rd IEEE Int. Conf. on Fuzzy Systems. Orlando, 1994.
50. R. Kruse, M Schröder. Fuzzy control als Applikationsperspektive in Prozessen der Zuckerindustrie, Zuckerindustrie 119 (11), 901–910. 1994.
51. J. Kinzel, F. Klawonn und R. Kruse, Anpassung Genetischer Algorithmen zum Erlernen und Optimieren von Fuzzy-Reglern. In B. Reusch, Ed., Proc. of the 4. Dortmunder Fuzzy-Tage. Springer Verlag, Berlin, 1994.
52. J. Kinzel, F. Klawonn and R. Kruse. Modifications of Genetic Algorithms for Designing and Optimizing Fuzzy Controllers. In Proc. IEEE International Conference on Evolutionary Computation. Orlando, 1994.
53. F. Klawonn and R. Kruse. Fuzzy Partitions and Transformations. In Proc.of the 3rd IEEE International Conference on Fuzzy Systems. Orlando, 1994.
54. R. Kruse, J. Gebhardt and F. Klawonn. A Fuzzy Controller for Idle Speed Regulation. In E. Deaton, D. Oppenheim, J. Urban and H. Berghel, eds., Proc. 1994 ACM Symposium on Applied Computing, 155–160. New York, 1994.
55. D. Nauck and R. Kruse. NEFCON-I: An X-Window based Simulator for Neural Fuzzy Controllers. In Proc. IEEE Int. Conf. Neural Networks 1994 at IEEE WCCI'94. Orlando, 1994.
56. J. Beckmann, J. Gebhardt, F. Klawonn and R. Kruse. Possibilistic Inference and Data Fusion. In Proc. Second European Congress on Fuzzy and Intelligent Technologies (EUFIT'94), 46–47. Aachen, 1994.

57. M. Hartmann, F. Klawonn, R. Kruse and K. Petras. Constructing Rule Bases and Fuzzy Sets for Interpolation: Experiences from Quality Evaluation. In Proc. Second European Congress on Fuzzy and Intelligent Technologies (EUFIT'94), 1671–1673. Aachen, 1994.
58. D. Nauck and R. Kruse. Choosing Appropriate Neuro Fuzzy Models. In Proc. Second European Congress on Fuzzy and Intelligent Technologies (EUFIT94), 552–557. Aachen, 1994.
59. R. Kruse. On the Extension of Probability Theory and Statistics to the Handling of Fuzzy Data. In E. Diday, Y Lechevallier, M. Schader, P. Bertrand and B. Burtschy, eds., New Approaches in Classification and Data Analysis, 463–469. Springer Verlag, Berlin, 1994.
60. L.M. De Campos, J. Gebhardt and R. Kruse. Axiomatic Treatment of Possibilistic Independence. In C. Froidevaux and J. Kohlas eds., Symbolic and Quantitative Approaches to Reasoning and Uncertainty, Lecture Notes in Artificial Intelligence 946, 77–88. Springer, Berlin, 1995.
61. J. Gebhardt and R. Kruse. Learning Possibilistic Networks from Data. In Proc. 5th International Workshop on Artificial Intelligence and Statistics, 233–244. Fort Lauderdale, 1995.
62. J. Gebhardt, R. Kruse. Some Notes on Possibilistic Learning. In G. Della Riccia, R. Kruse, R. Viertl eds., Mathematical and Statistical Methods in Artificial Intelligence, 23–32. Springer, Berlin, 1995.
63. J. Gebhardt and R. Kruse. Learning Possibilistic Networks from Data. In Proceedings of FUZZ-IEEE / IFES '95, 1575–1580. Yokohama, 1995.
64. J. Gebhardt und R. Kruse. Focusing and Learning in Possibilistic Dependency Networks. In V. Mammitzsch and H. Schneeweiss eds., Symposia Gaussiana, Postproceedings of the 2nd Gaussian Symposium (Conference B: Statistical Sciences), 79–90. W. de Gruyter, Berlin, 1995.
65. J. Gebhardt and R. Kruse. Reasoning and Learning in Probabilistic and Possibilistic Networks. In N. Lavrac and S. Wrobel eds., Machine Learning: {ECML95}, Lecture Notes in Artificial Intelligence 912, 3–16. Springer, Berlin, 1995.
66. J. Gebhardt and R. Kruse. Learning Possibilistic Graphical Models. In Proc. 3rd European Congress on Fuzzy and Intelligent Technologies (EUFIT'95), 74–76. Aachen, 1995.
67. J. Gebhardt and R. Kruse. Discrete Graphical Models in Possibility Theory. In G. De Cooman, D. Ruan and E. Kerre eds., Foundations and Applications of Possibility Theory (FAPT'95).World Scientific, Singapore, 1995.

68. J. Gebhardt, R. Kruse. A Numerical Framework for Possibilistic Abduction. In B. Bouchon-Meunier, R.R. Yager, L.A. Zadeh eds., *Advances in Intelligent Computing*. Springer, Heidelberg, 1995.
69. F. Klawonn and R. Kruse. From Fuzzy Sets to Indistinguishability and Back. In *Proceedings of the International ICSC Symposium on Fuzzy logic*, A57–A59. ETH Zürich, 1995.
70. F. Klawonn and R. Kruse. Automatic Generation of Fuzzy Controllers by Fuzzy Clustering. In *Proc. IEEE International Conference on Systems, Man and Cybernetics*. Vancouver, 1995.
71. F. Klawonn, D. Nauck and R. Kruse. Generating Rules from Data by Fuzzy and Neuro Fuzzy Methods. In *Proc. Fuzzy Neuro Systeme'95*, 223–230. Darmstadt, 1995.
72. R. Kruse and D. Nauck. Learning Methods for Fuzzy Systems. In *Proc. Fuzzy–Neuro–Systeme'95*, Darmstadt, 7–22, 1995.
73. F. Klawonn and R. Kruse. Derivation of Fuzzy Classification Rules from Multidimensional Data. In G. E. Lasker and X. Liu eds., *Advances in Intelligent Data Analysis. The International Institute for Advanced Studies in System Research and Cybernetics*, 90–94. Windsor, Ontario, 1995.
74. R. Kruse und D. Nauck. Neuronale Fuzzy Systeme. In G. Dorffner, K. Möller, G. Paaß and S. Vogel Hrsg., *Konnektionismus und Neuronale Netze. Beiträge zur Herbstschule HeKoNN95*, GMD Studien Nr. 272, 1–10, Münster/Westf., 1995.
75. D. Nauck and R. Kruse. Neuro Fuzzy Classification with NEFCLASS. In *Operations Research Proceedings 1995*. Springer Verlag, Berlin, 1995.
76. D. Nauck, R. Kruse and R. Stellmach. New Learning Algorithms for the Neuro Fuzzy Environment NEFCON I. In *Proc. Neuro Fuzzy Systeme '95*, 357–364. Darmstadt, 1995.
77. D. Nauck and R. Kruse. NEFCLASS – A Neuro–Fuzzy Approach for Classification of Data. In *Proceedings of the 1995 ACM Symposium on Applied Computing*, 461–465. Nashville, 1995.
78. M. Schröder and R. Kruse. Sequential Optimization of Characteristic Mappings by Means of Genetic Algorithms. In *Proceedings of the 6th International Fuzzy Systems Association*. So Paulo, 1995.
79. M. Schröder, F. Klawonn and R. Kruse. Genetic Algorithms and Fuzzy Situations for Sequential Optimization of Control Surfaces. In *Proc. ISUMA/NAFIPS'95*, 777–781. Maryland, 1995.

80. F. Klawonn, R. Kruse. Clustering Methods in Fuzzy Control. In W. Gaul, D. Pfeifer eds., From Data to Knowledge: Theoretical and Practical Aspects of Classification, Data Analysis and Knowledge Organisation, 195–202, Springer Verlag, Berlin, 1995.
81. J. Gebhardt and R. Kruse. Tightest hypertree decompositions of multivariate possibility distributions. In Int. Conf. On Information Processing and Management of Uncertainty in Knowledge-Based System (IPMU '96). 923–927, Granada, 1996.
82. T. Sutter, G. S. Mollet, M. Schröder, R. Kruse and J. Gebhardt. Fuzzy Queries for Top Management Succession Planning. In Proc. IEEE/IAFE Conference on Computational Intelligence for Financial Engineering (CIFE). 241–246, 1996.
83. C. Borgelt, J. Gebhardt and R. Kruse. Concepts for Probabilistic and Possibilistic Induction of Decision Trees on Real World Data. In Proc. 4th European Congress on Fuzzy and Intelligent Technologies (EURIT '96). 1556–1560. Verlag und Druck Mainz GmbH, Aachen, 1996.
84. J. Gebhardt and R. Kruse. Measures of Nonspecificity for Decomposing Possibility Distributions. In Proc. Biennial Conference of the North American Fuzzy Information Processing Society (NAFIPS '96). 177–179. Berkeley, CA, 1996.
85. J. Gebhardt and R. Kruse. On a Tool for Possibilistic Reasoning in Relational Structures. In Proc. IEEE International Conference on Fuzzy Systems (FUZZIEEE '96). 1471–1475. New Orleans, LA, 1996.
86. J. Gebhardt and R. Kruse. Parallel Combination of Information Sources. In Proc. Of the Second Workshop of the EC Working Group FUSION. Tunis, 1996.
87. J. Gebhardt, R. Kruse. Learning Possibilistic Networks from Data. In D. Fisher, H. Lenz eds., Learning from Data, Artificial Intelligence and Statistics 5, Lecture Notes in Statistics 112. 143 – 153, Springer Verlag, New York, 1996.
88. R. Kruse und D. Nauck. Neuronale Fuzzy-Systeme. In G. Dorffner, K. Möller, G. Paaß, R. Rojas und St. Vogel Hrsg., Konnektionismus und Neuronale Netze. Beiträge zur Herbstschule (HeKoNN96), GMD-Studien Nr. 300. 157–170, GMD-Forschungszentrum Informatik GmbH, Münster/Westf., Okt. 1996.
89. D. Nauck and R. Kruse. Neuro-Fuzzy Classification with NEFCLASS. In P. Kleinschmidt, A. Bachem, U. Derigs, D. Fischer, U. Leopold-Wildburger and R. Möhring eds., Operations Research Proceedings 1995. 294 – 299, Springer-Verlag, 1996.
90. D. Nauck, U. Nauck and R. Kruse. Generating Classification Rules with the Neuro-Fuzzy System (NEFCLASS). In Proc. Biennial Conference of the North American Fuzzy Information Processing Society NAFIPS '96. 466–470, IEEE, Berkeley, Jun. 1996.

91. D. Nauck und R. Kruse. Fuzzy–Systeme and Soft Computing. In J. Biethan, A. Höhnerloh and V. Nissen eds., *Fuzzy Set Theorie in betriebswirtschaftlichen Anwendungen*. 1–19, Verlag Franz Vahlen, 1996.
92. T. Sutter und R. Kruse. Fuzzy queries in conventional databases for succession planning. In: *Lectures on Fuzziness and Databases*, 5th Series, 1996–1997.
93. D. Nauck und R. Kruse. What are neuro-fuzzy classifiers? In Proc. Seventh International Fuzzy Systems Association World Congress IFSA'97, Band III, S. 228–233. Prague, 1997.
94. R. Kruse, S. Siekmann, R. Neuneier und H.G. Zimmermann. Neuro-fuzzy methods in finance applied to the German stock index DAX. In Tagungsband des 6. Karlsruher Ökonometrie-Workshops. Karlsruhe, 1997.
95. A. Nürnberg, D. Nauck und R. Kruse. Neuro-Fuzzy–Regelung mit NEFCON unter MATLAB/SIMULINK. In *Neuronale Netze in Ingenieuranwendungen*. 2. Internationaler Workshop S. 33–43. Universität Stuttgart, 1997.
96. C. Borgelt und R. Kruse. Evaluation measures for learning probabilistic and possibilistic networks. In Proc. 6th IEEE International Conference on Fuzzy Systems (FUZZ–IEEE'97), Band 2, S. 669–676. Barcelona, Spain, 1997.
97. C. Borgelt und R. Kruse. Some experimental results on learning probabilistic and possibilistic networks with different evaluation measures. In Proc. 1st International Joint Conference on Qualitative and Quantitative Practical Reasoning (ECSQARU/FAPR'97), S. 71–85. Bad Honnef, Germany, 1997.
98. R. Kruse und C. Borgelt. Learning probabilistic and possibilistic networks: Theory and applications. In Proc. 7th International Fuzzy Systems Association World Congress (IFSA'97), Band 1, S. 19–24. Prague, Czech Republic, 1997.
99. D. Nauck und R. Kruse. Neuro-fuzzy systems for function approximation. In Adolf Grauel, Wilhelm Becker und Fevzi Belli, Herausgeber, *Fuzzy–Neuro–Systeme'97 – Computational Intelligence*. Proc. 4th Int. Workshop Fuzzy–Neuro–Systeme '97 (FNS'97) in Soest, Germany, Proceedings in Artificial Intelligence, S. 316–323. infix, Sankt Augustin, 1997.
100. D. Nauck und R. Kruse. New learning strategies for NEFCASS. In Proc. Seventh International Fuzzy Systems Association World Congress IFSA'97, Band IV, S. 50–55. Prague, 1997.
101. S. Siekmann, R. Kruse, R. Neuneier und H. G. Zimmermann. Advanced Neuro-Fuzzy Techniques Applied To The German Stock Index DAX. In Proceedings of the 2.

European Workshop on Fuzzy Decision Analysis and Neural Networks, EFDAN'97. Dortmund, 1997.

102. S. Siekmann, R. Kruse, R. Neuneier und H. G. Zimmermann. Tägliche Prognose des Deutschen Aktienindex DAX mit Neuro-Fuzzy Methoden. In Tagungsband zum 3.Göttinger Symposium Softcomputing, S. 7–18. Universität Göttingen, 27.2.1997.
103. S. Siekmann, R. Kruse, R. Neuneier und H. G. Zimmermann. Neuro-Fuzzy in der Finanzanalyse. In Tagungsband des 2. Workshops Neuronale Netze in Ingenieursanwendungen, S. 67–78. Am Institut für Statik und Dynamik der Luft- und Raumfahrtkonstruktionen, Universität Stuttgart, 13./14.2.1997.
104. A. Nürnberger, D. Nauck und R. Kruse. Neuro-Fuzzy–Regelung mit NEFCON unter MATLAB/SIMULINK. In Proc. Neuronale Netze in Ingenieuranwendungen 1997 (NNIA'97), S. 55–66. Stuttgart, Germany, Februar 1997.
105. R. Kruse und A. Nürnberger. Learning methods for fuzzy systems. In Proc. 8th International Symposium on Non-Linear Electromagnetic Systems 1997 (ISEM'97). Braunschweig, Germany, Juni 1997.
106. D. Nauck und R. Kruse. Function approximation by NEFPROX. In Proc. Second European Workshop on Fuzzy Decision Analysis and Neural Networks for Management, Planning, and Optimization (EFDAN'97), S. 160–169. Dortmund, Juni 1997.
107. A. Nürnberger, D. Nauck, R. Kruse und L. Merz. A neuro-fuzzy development tool for fuzzy controllers under MATLAB/SIMULINK. In Proc. Fifth European Congress on Intelligent Techniques and Soft Computing (EUFIT97), S. 1029–1033. Aachen, September 1997.
108. H. Timm, R. Kruse, D. Nauck und F. Klawonn. Flexible Fuzzy Clustering for Data Analysis as a Plug-In Library for Data Engine. In Proc. 1st International Data Analysis Symposium, S. 67–71. Aachen, Germany, September 1997.
109. H. Timm, R. Kruse und F. Klawonn. Flexible Fuzzy Clustering for Data Analysis as a Plug-In Library for Data Engine. In Proc. AFN Jahrestagung 1997 (AFN'97), S. 91–96. Magdeburg, Germany, Oktober 1997.
110. J. Gebhardt and R. Kruse. Possibilistic graphical Modelle. In R. Grützner ed., Modellbildung und Simulation im Umweltbereich. Vieweg Verlag, Wiesbaden, 1997.
111. J. Gebhardt und R. Kruse. Background and perspectives of possibilistic graphical models. In Dov Gabbay, Rudolf Kruse, Andreas Nonnengart und Hans Jürgen Ohlbach, eds, Qualitative and Quantitative Practical Reasoning: ECSQARU/FAPR'97, Lecture Notes in Artificial Intelligence, 1244, S. 108–121. Springer, Berlin, 1997.

112. F. Klawonn, R. Kruse und H. Timm. Fuzzy Shell Cluster Analysis. In G. Della Riccia, H.-J. Lenz und R. Kruse, Herausgeber, Learning, Networks and Statistics, S. 105–120. Springer, New York, Berlin, 1997.
113. C. Borgelt und R. Kruse. Efficient maximum projection of database-induced multivariate possibility distributions. In Proc. 7th IEEE International Conference on Fuzzy Systems (FUZZ-IEEE'98), Band 1, S. 663–668. Anchorage, AK, USA, 1998.
114. C. Borgelt und R. Kruse. Possibilistic networks with local structure. In Proc. 6th European Congress on Intelligent Techniques and Soft Computing (EUFIT'98), Band 1, S. 634–638. Aachen, Germany, 1998.
115. R. Kruse und C. Borgelt. Data mining with graphical models. In Proc. Computer Science for Environmental Protection (12th Int. Symp. "Informatik für den Umweltschutz", Bremen 1998), Band 1, S. 17–30. Marburg, Germany, 1998.
116. R. Kruse und C. Borgelt. Neuere Entwicklungen im Data Mining mit Bayesschen Netzen. In Seminar zu Anwendungen von Fuzzy-Technologien und Neuronalen Netzen, S. 1–7, FH Wernigerode, 1998.
117. R. Kruse und C. Borgelt. Possibilistic networks: Data mining applications. In Proc. 6th European Congress on Intelligent Techniques and Soft Computing (EUFIT'98), Band 1, S. 603–607. Aachen, Germany, 1998.
118. A. Radetzky, A. Nürnberg, D. P. Pretschner und R. Kruse. The simulation of elastic tissues in virtual laparoscopy using neural networks. In Proc. Neuronale Netze in Ingenieuranwendungen 1998 (NN'98), S. 167–174. Magdeburg, Germany, 1998.
119. D. Nauck und R. Kruse. Rule weights in fuzzy systems. In Proc. 5. GI-Workshop Fuzzy-Neuro Systems'98 (FNS'98). Munich, 1998.
120. A. Nürnberg, A. Radetzky und R. Kruse. Modelling and simulating a time-dependent physical system using fuzzy techniques and a recurrent neural network. In Proc. 5th International Workshop Fuzzy-Neuro Systems 1998 (FNS'98), S. 306–313. München, Germany, 1998.
121. D. Nauck und R. Kruse. How the learning of rule weights affects the interpretability of fuzzy systems. In Proc. 7th IEEE International Conference on Fuzzy Systems (FUZZ-IEEE'98), S. 1235–1240. Anchorage, 1998.
122. D. Nauck, A. Nürnberg und R. Kruse. Neuro-fuzzy classification. In Advances in Data Science and Classification, S. 287–294. Springer-Verlag, Berlin, 1998.

123. D. Nauck und R. Kruse. A neuro-fuzzy approach to obtain interpretable fuzzy systems for function approximation. In Proc. 7th IEEE International Conference on Fuzzy Systems (FUZZ-IEEE'98), S. 1106–1111. Anchorage, 1998.
124. A. Nürnberg und R. Kruse. Neuro-fuzzy techniques under MATLAB-SIMULINK applied to a real plant. In Proc. IEEE International Conference on Fuzzy Systems 1998 (FUZZ-IEEE '98), S. 468–473. Anchorage, Alaska, 1998.
125. H. Timm und R. Kruse. Fuzzy-Clusteranalyse mit DataEngine. In Proc. 4. DataEngine User Meeting. Aachen, Germany, Juni 1998.
126. H. Timm und R. Kruse. Fuzzy cluster analysis with missing values. In Proc. 1998 Conference of the North American Fuzzy Information Processing Society (NAFIPS 1998), S. 242–246. Pensacola, FL, August 1998.
127. A. Nürnberg, A. Radetzky, and R. Kruse, A Problem Specific Recurrent Neural Network for the Description and Simulation of Dynamic Spring Models, In: Proc. IEEE International Joint Conference on Neural Networks 1998 (IJCNN '98), pp. 468–473, Anchorage, Alaska, 1998.
128. R. Kruse, S. Siekmann, R. Neuneier und H.G. Zimmermann. Neuro-Fuzzy Methods in Finance Applied to the German Stock Index DAX. In G. Bol, G. Nakhaeizadeh , K.H. Vollmer, Ed. Risk Measurement, Econometrics and Neural Networks, Contributions to Economics. Springer, Heidelberg, 1998.
129. R. Kruse, and C. Borgelt, Data Mining with Graphical Models, In: Proc. Computer Science for Environmental Protection, 12th Int. Symp. "Informatik für den Umweltschutz", Bremen 1998, pp. 17–30, Marburg, 1998.
130. C. Borgelt, and R. Kruse, Efficient Maximum Projection of Database-Induced Multivariate Possibility Distributions, In: Proc. 7th IEEE International Conference on Fuzzy Systems (FUZZ-IEEE'98), pp. 663–668, Anchorage, AK, USA, 1998.
131. H. Timm, and R. Kruse, Fuzzy cluster analysis with missing values, In: Proc. 1998 Conference of the North American Fuzzy Information Processing Society (NAFIPS 1998), pp. 242–246, Aachen, Germany, 1998.
132. H. Timm, and R. Kruse, Fuzzy-Clusteranalyse mit DataEngine, In: Proc. 4. DataEngine User Meeting, Aachen, Germany, 1998.
133. D. Nauck, and R. Kruse, How the Learning of Rule Weights Affects the Interpretability of Fuzzy Systems, In: Proc. 7th IEEE International Conference on Fuzzy Systems (FUZZ-IEEE'98), pp. 1235–1240, Anchorage, 1998.

134. J. Gebhardt, and R. Kruse, Information Source Modelling for Consistent Data Fusion, In: Hamid R. Arabnia, and Dongping (Daniel) Zhu (Eds.), Proc. of the International Conference on Multisource–Multisensor Information Fusion (FUSION'98), pp. 27–34, CSREA Press, Las Vegas, Nevada, USA, 1998.
135. R. Kruse, and A. Nürnberg, Learning Methods for Fuzzy Systems, In: Non–Linear Electromagnetic Systems: Advanced Techniques and Mathematical Methods, Proc. of the 8th International Symposium on Non–Linear Electromagnetic Systems 1997 (ISEM'97), pp. 367–372, IOS–Press, Amsterdam, Netherland, 1998.
136. S. Siekmann, R. Kruse, R. Neuneier und H.G. Zimmermann. Tägliche Prognose des Deutschen Aktienindex DAX mit Neuro–Fuzzy Methoden. In J. Biethahn, A. Hönerloh, J. Kuhl, M.–C. Leisewitz, V. Nissen und M. Tietze, Herausgeber, Betriebswirtschaftliche Anwendungen des Soft Computings, Computational Intelligence. Verlag Vieweg, Wiesbaden, 1998.
137. A. Nürnberg, A. Radetzky, and R. Kruse, Modelling and Simulating a Time–Dependent Physical System Using Fuzzy Techniques and a Recurrent Neural Network, In: Fuzzy–Neuro Systems '98 – Computational Intelligence, Proc. 5th International Workshop (FNS'98), pp. 306–313, infix, München, Germany, 1998.
138. R. Kruse, and C. Borgelt, Neuere Entwicklungen im Data Mining mit Bayesschen Netzen, In: Seminar zu Anwendungen von Fuzzy–Technologien und Neuronalen Netzen, pp. 1–7, FH Wernigerode, 1998.
139. D. Nauck, A. Nürnberg, and R. Kruse, Neuro–Fuzzy Classification, In: Advances in Data Science and Classification, Proc. of the 6th Conference of the International Federation of Classification Societies (IFCS–98), pp. 287–294, Springer–Verlag, Berlin, 1998.
140. A. Nürnberg, and R. Kruse, Neuro–Fuzzy Techniques under MATLAB/SIMULINK Applied to a Real Plant, In: Proc. IEEE International Conference on Fuzzy Systems 1998 (FUZZ–IEEE '98), pp. 572–576, Anchorage, Alaska, 1998.
141. D. Nauck und R. Kruse. Fuzzy Systeme und Neuro–Fuzzy Systeme. In J. Biethahn, A. Hönerloh, J. Kuhl, M.–C. Leisewitz, V. Nissen und M. Tietze, Herausgeber, Betriebswirtschaftliche Anwendungen des Softcomputings, S. 35–54, Computational Intelligence. Verlag Vieweg, Wiesbaden, 1998.
142. C. Borgelt, and R. Kruse, Possibilistic Networks with Local Structure, In: Proc. 6th European Congress on Intelligent Techniques and Soft Computing (EUFIT'98), pp. 634–638, Aachen, Germany, 1998.

143. R. Kruse, and C. Borgelt, Possibilistic Networks: Data Mining Applications, In: Proc. 6th European Congress on Intelligent Techniques and Soft Computing (EUFIT'98), pp. 603–607, Aachen, Germany, 1998.
144. D. Nauck, and R. Kruse, Rule Weights in Fuzzy Systems, In: Fuzzy–Neuro Systems '98 – Computational Intelligence, Proc. 5th International Workshop (FNS'98), Munich, 1998.
145. A. Radetzky, A. Nürnberg, D. P. Pretschner, and R. Kruse, The Simulation of Elastic Tissues in Virtual Laparoscopy using Neural Networks, In: Proc. Neural Networks in Applications (NN'98), pp. 167–174, University of Magdeburg, Magdeburg, Germany, 1998.
146. C. Borgelt, and R. Kruse, A Critique of Inductive Causation, In: Proc. 5th European Conf. on Symbolic and Quantitative Approaches to Reasoning and Uncertainty (ECSQARU'99, London, United Kingdom), pp. 68–79, Springer, Heidelberg, Germany, 1999.
147. R. Kruse, C. Borgelt, and D. Nauck, Data Mining mit Neuro-Fuzzy–Systemen, In: Proc. Symposium Operations Research (SOR'99, Magdeburg, Germany), 1999.
148. R. Kruse, D. Nauck, and C. Borgelt, Data Mining with Fuzzy Methods: Status and Perspectives, In: Proc. 7th European Congress on Intelligent Techniques and Soft Computing (EUFIT'99), 8 p., Aachen, 1999. (Published on CD-ROM)
149. A. Nürnberg, A. Radetzky, and R. Kruse, Determination of Elastodynamic Model Parameters using a Recurrent Neuro-Fuzzy System, In: Proc. 7th European Congress on Intelligent Techniques and Soft Computing (EUFIT'99), 8 p., Verlag Mainz, Aachen, 1999. (Published on CD-ROM)
150. A. Nürnberg, A. Klose, and R. Kruse, Discussing Cluster Shapes of Fuzzy Classifiers, In: Proc. 18th International Conference of the North American Fuzzy Information Processing Society (NAFIPS'99), pp. 546–550, New York, 1999.
151. D. Nauck, and R. Kruse, Fusing Expert Knowledge and Information from Data with NEFCLASS, In: Proc. Second International Conference on Information Fusion (FUSION'99), pp. 386–393, Sunnyvale, CA, 1999.
152. D. Nauck, and R. Kruse, Fuzzy Classification Rules Using Categorical and Metric Variables, In: Fuzzy–Neuro Systems 1999 – Computational Intelligence (FNS'99), pp. 133–144, G. Brewka, R. Der, S. Gottwald, and A. Schierwagen, Leipziger Universitätsverlag, Leipzig, 1999.
153. R. Kruse, C. Borgelt, and D. Nauck, Fuzzy Data Analysis: Challenges and Perspectives, In: Proc. IEEE Int. Conf. on Fuzzy Systems 1999 (FUZZIEEE99), pp. 1211–1216, Seoul, 1999.

154. G. Krell, B. Michaelis, D. Nauck, R. Kruse, Neural Networks in Applications (NN'99), Proc. 4. International Workshop, Logisch GmbH, Magdeburg, 1999.
155. S. Siekmann, R. Kruse, J. Gebhardt, F. van Overbeek, and R. Cooke, Information Fusion in the Context of Stock Index Prediction, In: Proc. of European Conference on Symbolic and Quantitative Approaches to Uncertainty (ECSQARU'99), Springer, London, 1999.
156. D. Nauck, and R. Kruse, Learning in Neuro-Fuzzy Systems with Symbolic Attributes and Missing Values, In: Proc. Sixth International Conference on Information Processing (ICONIP99), pp. 142–147, Perth, 1999.
157. D. Nauck, U. Nauck, and R. Kruse, NEFCLASS for JAVA -- New Learning Algorithms, In: Proc. 18th International Conference of the North American Fuzzy Information Processing Society (NAFIPS'99), pp. 472–476, IEEE, New York, NY, 1999.
158. A. Nürnberg, A. Klose, D. Nauck, R. Kruse, Improving the Clarity of Neuro-Fuzzy Classifiers, AFN-Berichte'99, pp.33–47, Duderstadt, 1999.
159. C. Borgelt, J. Gebhardt and R. Kruse, Possibilistic Graphical Models, ISSEK'98 (Udine, Italy), 1998. In: G. Della Riccia and R. Kruse and H.-J. Lenz, eds., Computational Intelligence in Data Mining, Springer, Wien, pp. 51–68, 2000.
160. A. Nürnberg, A. Klose, and R. Kruse, Analyzing Borders Between Partially Contradicting Fuzzy Classification Rules, In: Proc. 19th International Conference of the North American Fuzzy Information Processing Society (NAFIPS 2000), pp. 59–63, Atlanta, 2000.
161. A. Klose, R. Kruse, H. Gross, and U. Thoennesen, Automatische Adaption Struktureller Bildanalysealgorithmen unter Verwendung von Data Mining Techniken, In: Proc. Computational Intelligence im industriellen Einsatz (CI'2000), pp. 91–96, VDI-Verlag, Düsseldorf, 2000.
162. A. Klose, R. Kruse, K. Schulz, and U. Thoennesen, Controlling Asymmetric Errors in Neuro-Fuzzy Classification, In: Proc. ACM SAC '00, ACM Press, 2000.
163. J. Marx-Gómez, C. Rautenstrauch, A. Nürnberg, and R. Kruse, Hybrid Approach to Forecast Returns of Scrapped Products to Recycling and Remanufacturing, In: 3rd International Conference on Information Fusion (FUSION 2000), Paris, 2000.
164. A. Klose, R. Kruse, H. Gross, and U. Thoennesen, Tuning on the Fly of Structural Image Analysis Algorithms Using Data Mining, In: Proc. SPIE AeroSense '00, SPIE Press, 2000.

165. C. Borgelt, H. Timm, and R. Kruse, Using Fuzzy Clustering to Improve Naive Bayes Classifiers and Probabilistic Networks, In: Accepted to Proc. 8th IEEE International Conference on Fuzzy Systems (FUZZ-IEEE'00), IEEE Press, Piscataway, NJ, USA, 2000.
166. A. Nürnberg, A.Klose and R.Kruse, Effects of Antecedent Pruning in Fuzzy Classification Systems, Proc. of the Fourth International Conference on Knowledge-Based Intelligent Engineering Systems & Allied Technologies (KES 2000), pp154–157, IEEE, NJ, Piscataway, 2000.
167. C. Borgelt and R. Kruse, Learning from Imprecise Data: Possibilistic Graphical Models, Proc. NMDM 2000, pp190–203, Consiglio Nazionale delle Ricerche, Rome, 2000.
168. R. Kruse and A. Klose, Information Mining: Applications in Image Processing, SOFSEM'2000: Theory and Practice of Informatics, pp 266–285 Springer, Berlin, 2000.
169. A. Klose and A. Nürnberg and R. Kruse and G.- K. Hartmann and M. Richards, Interactive Text Retrieval Based on Document Similarities, Physics and Chemistry of the Earth, Elsevier Science, Nov., P. 649–654, Amsterdam, 2000.
170. H. Timm, C.Borgelt, C. Döring and R. Kruse, Fuzzy Cluster Analysis with Cluster Repulsion, Proc. Of the 1st International Workshop on Hybrid Methods for Adaptive Systems (EUNITE '01), On CD-ROM, Tenerife, Spain, 2001.
171. D. Nauck and R. Kruse, Information Fusion in Neuro-Fuzzy Systems, pp. 77–90, G. Della Riccia, H.-J. Lenz, R. Kruse, Data Fusion and Perception, Springer, Wien 2001.
172. C. Borgelt and R. Kruse, Learning Graphical Models with Hypertree Structure Using a Simulated Annealing Approach, Proc. 9th IEEE International Conference on Fuzzy Systems (FUZZ-IEEE'01), IEEE Press, Melbourne, Australia, 2001.
173. C. Borgelt and R. Kruse, An Empirical Investigation of the K2 Metric, S. Benferhat and P. Besnard, Proc. 6th European Conf. on Symbolic and Quantitative Approaches to Reasoning and Uncertainty (ECSQARU'01),pp240–251, Toulouse, France, 2001.
174. R. Kruse, Information Mining, Proc. of the Int. Conf. of the European Society for Fuzzy Logic and Technology (EUSFLAT 2001), pp6–9, De Montfort University, Leicester, UK, 2001.
175. H. Timm, F. Klawonn and R. Kruse, An Extension of Partially Supervised Fuzzy Cluster, Proc. of International Conf. of the North American Fuzzy Information (NAFIPS), New Orleans, 2002.
176. H. Timm, C. Döring, R. Kruse, Fuzzy Clusteranalyse von Daten mit fehlenden Werten, J. Kuhl, and A. Lackner, eds Unschärfe in Wirtschaft und Technik, Tagungsband zum 5. Göttinger Symposium Soft Computing, pp. 99–112. J. Biethahn,, AFN, Germany, 2002.

177. A. Klose, D. Girimonte, R. Kruse, Extending Neuro Fuzzy systems to Semi-supervised Learning, Proc. ICNNCS, Zakopane, 2002.
178. C. Borgelt, R. Kruse, Learning Graphical Models by Extending Optimal Spanning Trees, IPMU'02, Annecy, 2002.
179. R. Kruse, A. Klose, Information Mining with Fuzzy Methods: Trends and Current Challenges, Proc. Methods and Models in Automation and Robotics Information (MMAR'02), Szezecin, pp. 117–120, 2002.
180. C. Borgelt, R. Kruse: Induction of association rules: Apriori implementation, Compstat, 395–400, 2002.
181. A. Nürnberg, A. Klose, R. Kruse, G. K. Hartmann, and Michael Richards, Clustering of Document Collections to Support Interactive Text Exploration, In: O. Opitz, M. Schwaiger (Eds.), Exploratory Data Analysis in Empirical Research, pp. 257–265, Springer-Verlag, 2002.
182. R. Kruse, C. Borgelt, Data Mining with Graphical Models. in.: S. Lange et al, Discovery Science, Proc. ALT 2002/ DS 2002, Lübeck , Springer LNCS 2534, pp. 2–11. 2002.
183. C. Borgelt, R. Kruse, Speeding Up Fuzzy Clustering with Neural Network Techniques, Proc. FUZZ IEEE 03, St. Louis, pp. 852–856, 2003.
184. A. Eichhorn, D. Girimonte, A. Klose, R. Kruse, Neuro-Fuzzy Classification of Surface Form Detection, Proc. FUZZ IEEE 03, St. Louis, pp. 902–907, 2003.
185. H. Timm, C. Döring, R. Kruse, Differentiated Treatment of Missing Values in Fuzzy Clustering, in : T. Bilgic et al, IFSA 2003, LNAI 2715, Istanbul, pp. 354–361, 2003.
186. R. Kruse, A. Keller, Fuzzy Rule Generation for Transfer Passenger Analysis, Proc. FSKD, Singapur, 2003.
187. C. Borgelt, R. Kruse, Data Mining with Possibilistic Graphical Models, In.: P. Melo-Pinto, Systematic Organisation of Information in Fuzzy Systems, IOS Press, Science Series III, Vol. 184, Ohmsha , pp. 229– 248, 2003.
188. C. Borgelt, R. Kruse, Local Structure Learning in Graphical Models, In: G. Della Riccia et al, Planning Based on Decision Theory, Springer Wien, pp. 99–118, 2003.
189. J. Gebhardt, F. Rügheimer, H. Detmer, R. Kruse. Adaptable Markov Models in Industrial Planning. Proc. FUZZ IEEE 04. Budapest, 2004.

190. C. Döring, C. Borgelt, R. Kruse. Fuzzy Clustering of Quantitative and Qualitative Data Proc. of NAFIPS 2004. Banff, Alberta, 2004.
191. A. Klose und R. Kruse. Information Mining with Semi-Supervised Learning. In: M. Lopez-Diaz, M. A. Gil, P. Grzegorzewski, O. Hryniwicz und J. Lawry (Hrsg.), Soft Methodology and Random Information Systems, Advances in Computer Science, S. 67–74, Springer, Berlin, Heidelberg, 2004.
192. C. Borgelt, R. Kruse. Shape and Size Regularization in Expectation Maximization and Fuzzy Clustering. Proc. 8th European Conf. on Principles an Practice of Knowledge Discovery in Databases (PKDD 2004, Pisa, Italy), 52–62. Springer, Heidelberg, 2004.
193. X. Wang, D. Nauck, M. Spott, R. Kruse. Fuzzy Decision Trees – A new CI-Method for the Automatic Data Analysis Platform SPIDA. Proc. 14. Workshop Fuzzy-Systeme und Computational Intelligence, Universitätsverlag Karlsruhe, Karlsruhe, 2004.
194. F. Rehm, F. Klawonn, R. Kruse. Ausreißererkennung mit Fuzzy-Clustering–Methoden. Proc. 14. Workshop Fuzzy-Systeme und Computational Intelligence. Universitätsverlag Karlsruhe, Karlsruhe, 2004.
195. F. Rehm, F. Klawonn, R. Kruse. New Approaches to Noise Clustering for Detecting Outliers. Soft Computing for Information Mining (Workshop Proceedings 27th German Conference on Artificial Intelligence), Ulm, 2004.
196. X. Wang, D. Nauck, M. Spott, R. Kruse. Intelligent Data Analysis with Fuzzy Decision Trees. Soft Computing for Information Mining (Workshop Proceedings 27th German Conference on Artificial Intelligence), Ulm, 2004.
197. X. Wang, D. Nauck, M. Spott, R. Kruse. The Fuzzy Decision Tree Module in the Automatic Data Analysis Platform Spida. Information–Mining und Wissensmanagement in Wissenschaft und Wirtschaft – 7. Göttinger Symposium Soft Computing. Uni Göttingen, Göttingen, 2004.
198. C. Borgelt and R. Kruse, Fuzzy and Probabilistic Clustering with Shape and Size Constraints, In: Proc. 11th Int. Fuzzy Systems Association World Congress (IFSA'05, Beijing, China), 945–950, 2005.
199. C. Borgelt, A. Nürnberger and R. Kruse, Fuzzy Learning Vector Quantization with Size and Shape Parameters, In: Proc. 15th IEEE Int. Conf. on Fuzzy Systems, 2005 (FUZZ-IEEE'05, Reno, NV), CD-ROM, 195–200, 2005.
200. C. Borgelt and R. Kruse, Probabilistic Graphical Models for the Diagnosis of Analog Electrical Circuits, In: Proc. 8th European Conf. on Symbolic and Quantitative Approaches to Reasoning and Uncertainty (ECSQARU'05, Barcelona, Spain), 100–110, 2005.

201. C. Döring, C. Borgelt and R. Kruse, Effects of Irrelevant Attributes in Fuzzy Clustering, In: Proc. 15th IEEE Int. Conf. on Fuzzy Systems (FUZZ-IEEE'05, Reno, NV), CD-ROM, 2005.
202. M.-J. Lesot and R. Kruse, Kernel-based outlier preserving clustering, In: Information Mining und Wissensmanagement in Wissenschaft und Wirtschaft – 8. Göttinger Symposium Soft Computing, 2005.
203. F. Rehm, F. Klawonn and R. Kruse, Mdspolar: A new approach for dimension reduction to visualize high dimensional data, In: Advances in Intelligent Data Analysis VI – Proc. of the 6th Int. Symp. on Intelligent Data Analysis, IDA'2005, 2005.
204. G. Ruß, A. Karim, A. Hsu, A. Islam, S.K. Halgamuge and R. Kruse, Detection of Faulty Semiconductor Wafers using Dynamic Growing Self Organizing Map, In: Proceedings of the IEEE Tencon 2005, 2005.
205. F. Rügheimer and R. Kruse, Datenanalyse-Plattform InformationMiner, In: Proc.15. Workshop Fuzzy-Systeme und Computational Intelligence, Karlsruhe, 2005.
206. F. Rügheimer and R. Kruse, Information Miner – a Data Analysis Platform, In: Proc. of the Joint 4th EUSFLAT 11th LFA Conference 2005, Barcelona, 2005.
207. X. Wang, C. Borgelt and R. Kruse, Mining Fuzzy Frequent Item Sets, In: Proc. 11th Int. Fuzzy Systems Association World Congress (IFSA'05, Beijing, China), 528– 533, 2005.
208. C. Borgelt and R. Kruse, Finding the Number of Fuzzy Clusters by Resampling, In: Proc. 16th IEEE Int. Conf. on Fuzzy Systems (FUZZ-IEEE'06, Vancouver, Canada), 2006.
209. R. Kruse, J. Gebhardt, F. Rügheimer and H. Detmer, Planning with Graphical Models, In: Proc. of the 2006 Conference on COGnitive systems with Interactive Sensors (COGIS'06), Paris, 2006.
210. M.J. Lesot, F. Rehm, F. Klawonn, R. Kruse, Prediction of aircraft flight duration, Control in Transportation Systems 11 (1), 107–112, 2006.
211. F. Rehm, F. Klawonn and R. Kruse, Visualization of Fuzzy Rule Classifiers for Flight Duration Forecast, In: Proc. of the Symposium on Fuzzy Systems in Computer Science (FSCS 2006, Magdeburg, Germany), 2006.
212. M. Steinbrecher and R. Kruse, Visualization of Local Dependencies of Possibilistic Network Structures, In: Proceedings of the International Symposium of Fuzzy and Rough Sets (ISFUROS), UCLV, Santa Clara, Cuba, 77–80, 2006.

213. M.-J. Lesot, R. Kruse: Data Summarization by Typicality-based Clustering for Vectorial and Non Vectorial Data. FUZZ-IEEE 2006: 547–554, 2006.
214. S. Kempe, J. Hipp and R. Kruse, FSMTree: An Efficient Algorithm for Mining Frequent Temporal Patterns, In: Conference of the German Classification Society on Data Analysis, Machine Learning, and Applications (GfKI) 2007, 2007.
215. F. Rehm, F. Klawonn und R. Kruse. Single Cluster Visualization to Optimize Air Traffic Management. In: H.-J. Lenz und R. Decker (Hrsg.), Advances in Data Analysis, S. 319–325. Springer, 2007.
216. C. Borgelt and R. Kruse, An Extended Objective Function for Prototype-less Fuzzy Clustering, In: Proc. Conf. North American Fuzzy Information Processing Society (NAFIPS 2007), San Diego, 146–151, 2007.
217. S. M. Guru, M. Steinbrecher, S. K. Halgamuge and R. Kruse, Multiple Cluster Merging and Multihop Transmission in Wireless Sensor Networks, In: Advances in Grid and Pervasive Computing, Second International Conference, GPC 2007, Paris, 2007.
218. Matthias Steinbrecher, Rudolf Kruse: Visualization of Possibilistic Potentials. IFSA (1) 2007: 295–303, 2007.
219. R. Kruse, C. Borgelt, D. Nauck, N.J. van Eck and M. Steinbrecher, The role of soft computing in intelligent data analysis, In: Final program and abstracts of the 2007 IEEE International Conference on Fuzzy Systems, Vancouver, 9–17, 2007.
220. F. Rehm, R. Kruse, G. Ruß and F. Klawonn, Modern Data Visualization for Air Traffic Management, In: Proc. Conf. North American Fuzzy Information Processing Society (NAFIPS 2007), San Diego, 19–24, 2007.
221. G. Ruß, D. D. Nauck, M. Böttcher, R. Kruse: Relevance Feedback for Association Rules by Leveraging Concepts from Information Retrieval. SGAI Conf. 2007: 253–266, 2007.
222. G. Ruß, M. Böttcher and R. Kruse, Relevance Feedback for Association Rules using Fuzzy Score Aggregation, In: Proc. Conf. North American Fuzzy Information Processing Society (NAFIPS 2007), San Diego, 54–59, 2007.
223. M. Steinbrecher, R. Kruse, Visualisierung Bayes'scher Netze zur Diagnoseunterstützung, In: GMA-Kongress 2007 – Automation im gesamten Lebenszyklus, VDI-Berichte, Vol. 1980, 2007.
224. C. Moewes, C. Otte and R. Kruse, Tackling Multiple-Instance Problems in Safety-Related Domains by Quasilinear SVM, In: Proceedings of the Fourth International Workshop on Soft Methods in Probability and Statistics (SMPS'08), 2008.

225. F. Klawonn und R. Kruse. Similarity Relations and Independence Concepts. In: G. D. Riccia, D. Dubois, HJ. Lenz, R. Kruse (Eds.), Preferences and Similarities, International Centre for Mechanical Sciences 504, pp. 179–196. Springer, Wien, 2008.
226. G. Ruß, R. Kruse, P. Wagner and M. Schneider, Data Mining with Neural Networks for Wheat Yield Prediction, In: Advances in Data Mining (Proc. ICDM 2008), Leipzig, 47–56, 2008.
227. G. Ruß, R. Kruse, D. Nauck, M. Böttcher, Relevance Feedback for Association Rules by Leveraging Concepts from Information Retrieval, In: Research and Development in Intelligent Systems, Proceedings of AI-2007, Cambridge, Vol. 24, 253–266, 2008.
228. M. Steinbrecher and R. Kruse, Identifying Temporal Trajectories of Association Rules with Fuzzy Descriptions, In: Proc. Conf. North American Fuzzy Information Processing Society (NAFIPS 2008), 1–6, 2008.
229. M.-J. Lesot und R. Kruse. Gustafson-Kessel-Like Clustering Algorithm Based on Typicality Degrees. In: B. Bouchon-Meunier, C. Marsala, M. Rifqi und R. R. Yager (Hrsg.), Uncertainty and Intelligent Information Systems, S. 117–130. World Scientific Publishing Company, 2008.
230. C. Moewes, C. Otte und R. Kruse. Tackling Multiple-Instance Problems in Safety-Related Domains by Quasilinear SVM. In: D. Dubois, M. A. Lubiano, H. Prade, M. A. Gil , P. Grzegorzewski und O. Hryniwicz (Eds.), Soft Methods for Handling Variability and Imprecision, Bd. 48 Advances in Soft Computing, S. 409–416. Springer Berlin/Heidelberg, Oktober 2008.
231. M. Steinbrecher and R. Kruse, Visualization of Local Dependencies of Possibilistic Network Structures, In: Granular Computing: At the Junction of Rough Sets and Fuzzy Sets, Studies in Fuzziness and Soft Computing, Vol. 224, 93–104, 2008.
232. Myra Spiliopoulou, Maurice van Keulen, Hans-Joachim Lenz, Jef Wijsen, Matthias Renz, Rudolf Kruse, Mirco Stern: Dagstuhl Proceedings, 08421 Working Group: Imprecision, Diversity and Uncertainty: Disentangling Threads in Uncertainty Management. Uncertainty Management in Information Systems 2008.
233. F. Rügheimer and R. Kruse, An Uncertainty Representation for Set-Valued Attributes with Hierarchical Domains, In: Proceedings of the International Conference on Information Processing and Management of Uncertainty in Knowledge-Based Systems (IPMU-08), Málaga, 197–203, 2008.
234. S. Kempe and R. Kruse, Mining Temporal Patterns in an Automotive Environment, In: Proceedings of the International Conference on Information Processing and Management Uncertainty in Knowledge-Based Systems (IPMU-08), Málaga, 521–528, 2008.

235. G. Ruß, R. Kruse, M. Schneider and P. Wagner, Optimizing Wheat Yield Prediction Using Different Topologies of Neural Networks, In: Proceedings of the International Conference on Information Processing and Management of Uncertainty in Knowledge-Based Systems (IPMU-08), Málaga, 576–582, 2008.
236. C. Moewes and R. Kruse, Unification of Fuzzy SVMs and Rule Extraction Methods through imprecise Domain Knowledge, In: Proceedings of the International Conference on Information Processing and Management of Uncertainty in Knowledge-Based Systems (IPMU-08), Málaga, 1527–1534, 2008.
237. M. Böttcher, M. Spott und R. Kruse. Predicting Future Decision Trees from Evolving Data. In: Proceedings of ICDM '08, S. 33–42. IEEE Computer Society, 2008.
238. G. Ruß, R. Kruse, M. Schneider and P. Wagner, Visualization of Agriculture Data Using Self Organizing Maps, In: Research and Development in Intelligent Systems, Proceedings of AI-2008, 2009.
239. C. Borgelt und R. Kruse. Constraining Shape and Size in Clustering. In: A. Okada,T. Imaizumi, H. H. Bock und W. Gaul (Hrsg.), Cooperation in Classification and Data Analysis , S. 13–25. Springer, Berlin, 2009.
240. J. Beyer, K. Heesche, W. Hauptmann, C. Otte, R. Kruse. Ensemble Learning for Multi source Information Fusion. In: C. Sossai und G. Chemello (Hrsg.), Symbolic and Quantitative Approaches to Reasoning with Uncertainty, Bd. 5590 der Reihe Lecture Notes in Computer Science, S. 748–756. Springer, 2009.
241. M. Böttcher, G. Ruß, D. Nauck, R. Kruse. From Change Mining to Relevance Feedback: A Unified View on Assessing Rule Interestingness. In: Y. Zhao, L. Cao, C. Zhang (Eds.), Post-Mining of Association Rules: Techniques for Effective Knowledge Extraction, Information Science Reference, pp. 12–37.IGI Global, Hershey, New York, Mai 2009.
242. M. Böttcher ,M. Spott und R. Kruse. An Algorithm for Anticipating Future Decision Trees from Concept-Drifting Data. In: M. Bramer, F. Coenen, M. Petridis (Eds.), Research and Development in Intelligent Systems, Proceedings of AI-2008, pp. 293–306. BCS SGAI, Springer, 2009.
243. M. Böttcher, M. Spott und R. Kruse. A Condensed Representation of Itemsets for Analyzing their Evolution over Time. In: 11th European Conference on Principles and Practice of Knowledge Discovery in Databases (PKDD2009), Lecture Notes in Artificial Intelligence (LNAI). Springer, 2009.
244. F. Rehm, F. Klawonn und R. Kruse. Density-Based Multidimensional Scaling. In: A. Okada, T. Imaizumi, H.H. Bock und W. Gaul (Hrsg.),Cooperation in Classification and Data Analysis, S. 53–60. Springer, Berlin, 2009.

245. G. Ruß, R. Kruse, M. Schneider und P. Wagner. Visual Data Mining of Agriculture Data. In: P. Perner (Hrsg.), Machine Learning and Data Mining in Pattern Recognition, 6th International Conference (MLDM 2009), Poster Proceedings, S. 30-44. IBal Publishing, Juli 2009.
246. G. Ruß, R. Kruse, M. Schneider und P. Wagner. Visualization of Agriculture Data Using Self-Organizing Maps. In: T. Allen, R. Ellis und M. Petridis (Hrsg.), Applications and Innovations in Intelligent Systems, Bd. 16 der Reihe Proceedings of AI-2008 , S. 47-60. BCS SGAI, Springer, 2009.
247. M. Steinbrecher und R. Kruse. Assessing the Strength of Structural Changes in Cooccurrence Graphs. In: B. Mertsching, M. Hund und Z. Aziz (Eds.), KI 2009: Advances in Artificial Intelligence, 32nd Annual German Conference on AI, Paderborn, Germany, Bd. 5803 Lecture Notes in Artificial Intelligence, pp. 476-483. Springer, 2009.
248. M. Steinbrecher, R. Kruse. Clustering Association Rules with Fuzzy Concepts. In: A. Fink, B. Lausen, W. Seidel und A. Ultsch(Hrsg.), Advances in Data Analysis, Data Handling and Business Intelligence, Proceedings of the 32nd Annual Conference of the Gesellschaft für Klassifikation e.V., Joint Conference with the British Classification Society (BCS) and the Dutch/Flemish Classification, Studies in Classification, Data Analysis, and Knowledge Organization, pp.197-206. Springer, 2009.
249. M. Steinbrecher und R. Kruse. Fuzzy Descriptions to Identify Temporal Substructure Changes of Cooccurrence Graphs. In: Proceedings of 2009 IFSA/EUSFLAT, Lissabon, S. 1177-1182, 2009.
250. R. Kruse, M. Steinbrecher und M. Böttcher. Temporal Aspects in Data Mining. In: J. Aranda und S. Xambo (Hrsg.), WCCI 2010 Plenary and Invited Lectures, S. 1-22. Institute of Electrical and Electronics Engineering, Inc., 2010.
251. R. Winkler, F. Klawonn, F. Höppner, and R. Kruse. Fuzzy cluster analysis of larger data sets. In: M.-J. Lesot A. Laurent, (Eds.), Scalable Fuzzy Algorithms for Data Management and Analysis: Methods and Design, pages 302-331. IGI Global: Information Science Reference, 2010.
252. F. Rehm, R. Winkler und R. Kruse. Fuzzy Clustering with Repulsive Prototypes. In: A. Laurent und M.-J. Lesot (Hrsg.), Scalable Fuzzy Algorithms for Data Management and Analysis: Methods and Design, S. 332-345. Information Science Reference, 2010.
253. R. Winkler, A. Temme, C. Bösel, R. Kruse. Clustering radar tracks to evaluate efficiency indicators. In Proceedings of the second ENRI Workshop on ATM and CNS, pages 71-94, Tokyo, Japan, 2010.

254. R. Kruse, M. Steinbrecher und C. Moewes. Data Mining Applications in the Automotive Industry. In: M. Beer, R. L. Muhanna und R. L. Mullen (Hrsg.), Proceedings of the 4th International Workshop on Reliable Engineering Computing (REC 2010), S. 23–40, Singapore, Professional Activities Centre, National University of Singapore, Research Publishing Services, 2010.
255. R. Kruse, M. Steinbrecher, C. Moewes. Temporal pattern mining. In: Proceedings of the International Conference on Signals and Electronic Systems (ICSES 2010), S. 3–8, Piscataway, NJ, USA, Institute of Electronics, Silesian University of Technology, IEEE Press.287, September 2010.
256. C. Moewes, C. Otte, R. Kruse. Simple Machine Learning Approaches to Safety–Related Systems. In: K. De, D. P. Mandal und A. Ghosh (Eds.), Machine Interpretation of Patterns: Image Analysis and Data Mining, Bd. 11 der Reihe Statistical Science and Interdisciplinary Research, 12, S. 231–249. World Scientific Publishing Co. Inc., Hackensack, 2010.
257. G. Ruß, R. Kruse. Feature Selection for Wheat Yield Prediction. In: T. Allen R. Ellis, M. Petridis (Eds.), Research and Development in Intelligent Systems XXVI, Incorporating Applications and Innovations in Intelligent Systems XVII, Bd. 26 Proceedings of AI-2009, BCS SGAI, Springer S. 465–478, London, 2010.
258. G. Ruß, R. Kruse. Regression Models for Spatial Data: An Example from Precision Agriculture. In: P. Perner (Hrsg.), Advances in Data Mining. Applications and Theoretical Aspects, LNAI 6171, Springer, pp. 450–463, Berlin, 2010.
259. G. Ruß, R. Kruse, M. Schneider. A Clustering Approach for Management Zone Delineation in Precision Agriculture. In: R. Khosla (Hrsg.), Proceedings of ICPA 2010, Denver, CO, USA, Int. Society of Precision Agriculture. 2010.
260. G. Ruß, R. Kruse, M. Schneider und P. Wagner. Using Advanced Regression Models for Determining Optimal Soil Heterogeneity Indicators. In: H. Locarek-Junge und C. Weihs (Eds.), Classification as a Tool for Research, Proceedings of the 11th IFCS Biennial Conference and 33rd Annual Conference of the Gesellschaft für Klassifikation e.V., Studies in Classification, Data Analysis, and Knowledge Organization, S. 463–471, Springer Berlin, Heidelberg, New York, 2010.
261. G. Ruß, M. Schneider, R. Kruse. Hierarchical Spatial Clustering for Management Zone Delineation in Precision Agriculture. In: Advances in Data Mining,S. 95–104. IBal Publishing, 2010.
262. R. Winkler, F. Rehm und R. Kruse. Clustering with Repulsive Prototypes .In: A. Fink,B. Lausen, W. Seidel, A. Ultsch (Eds.), Advances in Data Analysis, Data Handling and Business Intelligence, Proc. 32nd Annual Conf. of theGfKI e.V., Joint Conference with

the British Classif. Soc. and the Dutch/Flemish Classif. Soc., Studies in Classification, Data Analysis, and Knowledge Organization, S. 207–215. Springer Verlag, 2010.

263. P. Held, R. Kruse. Estimation of hidden driver properties based on the driving behavior. In: F. Hoffmann , E. Hüllermeier(Eds.), Proceedings of 21.Workshop Computational Intelligence, Nr. 40 der Reihe Schriftenreihe des Instituts für Angewandte Informatik / Automatisierungstechnik Karlsruher Institut für Technologie , S. 1-14, 2011.
264. C. Moewes, R. Kruse. On the usefulness of fuzzy SVMs and the extraction of fuzzy rules from SVMs. In: S. Galichet, J. Montero und G. Mauris (Hrsg.),Proceedings of the 7th conference of the European Society for Fuzzy Logic and Technology (EUSFLAT-2011) and LFA-2011, Bd. 17 der Reihe Advances in Intelligent Systems Research, S. 943-948, Amsterdam / Paris, Juli 2011.
265. G. Ruß, R. Kruse. Exploratory Hierarchical Clustering for Management Zone Delineation in Precision Agriculture. In: P. Perner (Ed.), Advances in Data Mining, Applications and Theoretical Aspects, Bd. 6870 der Reihe LNAI, Springer, S. 161–173, Berlin, Heidelberg, 2011.
266. G. Ruß, R. Kruse. Machine Learning Methods for Spatial Clustering on Precision Agriculture Data. In: A. Kofod-Petersen, F. Heintz und H. Langseth (Ed.), Eleventh Scandinavian Conference on Artificial Intelligence, Frontiers in Artificial Intelligence and Applications, S. 40-49, IOS Press. Amsterdam, Netherlands, 2011.
267. R. Winkler, F. Klawonn und R. Kruse. M-Estimator induced Fuzzy Clustering Algorithms. In: Proceedings of the 7th conference of the European Society for Fuzzy Logic and Technology (EUSFLAT-2011) and LFA-2011, Advances in Intelligent Systems Research, S. 298–304, Amsterdam, Paris, 2011.
268. R. Winkler, F. Klawonn und R. Kruse. A New Distance Function for Prototype-based Clustering Algorithms in High-Dimensional Spaces. In: Proceedings of CLA-DAG 2011, 2011.
269. P. Held, C. Braune und R. Kruse. Estimating Edge Weights in Dynamic Graphs based on Events. In: F. Hoffmann und E. Hüllermeier Hrsg.,22. Workshop Computational Intelligence, Dortmund, 6.-7. Dezember 2012, Proceedings, Bd. 45 der Reihe Schriftenreihe des Instituts für Angewandte Informatik, Automatisierungstechnik am Karlsruher Institut für Technologie, S. 201-215, KIT Scientific Publishing, Karlsruhe, 2012.
270. G. Stiege, H. Langendörfer, R. Kruse, M. Zitterbart, S. Fischer, L. C. Wolf, M.I. Beigl, R. Kapitza: Betriebssysteme und Rechnerverbund. 40 Jahre Informatik @ Braunschweig, 62-75, 2012.

271. P. Held, C. Moewes, C. Braune, R. Kruse und B. A. Sabel. Advanced Analysis of Dynamic Graphs in Social and Neural Networks. In: C. Borgelt, M. A. Gil, J. M. C. Sousa und M. Verleysen (Eds.), Towards Advanced Data Analysis by Combining Soft Computing and Statistics, Bd. 285 Studies in Fuzziness and Soft Computing, S. 205–222. Springer, Berlin, Heidelberg, 2012.
272. R. Kruse und R. Winkler. Clustering in High Dimensional Spaces. In: Proc. Second Bilateral German–Polish Symposium on Data Analysis and its Applications, Cracow, 2012.
273. R. Winkler, F. Klawonn und R. Kruse. Problems of Fuzzy c-Means Clustering and Similar Algorithms with High Dimensional Data Sets. In: W. A. Gaul, A. Geyer-Schulz, L. Schmidt-Thieme und J. Kunze (Eds.), Challenges at the Interface of Data Analysis, Computer Science, and Optimization, Proceedings of the 34th Annual Conference of the Gesellschaft für Klassifikation e.V., Karlsruhe, July 21–23, 2010, Studies in Classification, Data Analysis, and Knowledge Organization ,S. 79–87, Springer, Berlin, Heidelberg, 2012.
274. C. Moewes, R. Kruse. Evolutionary Fuzzy Rules for Ordinal Binary Classification with Monotonicity Constraints. In: Proceedings of the World Conference on Soft Computing, San Francisco, CA, USA, 2011. Also in: R. R. Yager, A. M. Abbasov, M. Z. Reformat und S. N. Shahbazova (Hrsg.), Soft Computing: State of the Art Theory and Novel Applications, Bd. Studies in Fuzziness and Soft Computing 291, pp. 105–112, Springer, Berlin, 2013.
275. C. Moewes and R. Kruse The Effects of Edge Weights on Correlating Dynamical Networks, Vilamoura, 2013 In: A. Rosa, A. Dourado, K. Madani, J. Filipe und J. Kacprzyk (Hrsg.), Proceedings of the 5th International Joint Conference on Computational Intelligence, S. 279–284. Scite Press, September 20–22, 2013.
276. C. Braune, C. Borgelt und R. Kruse. Behavioral Clustering for Point Processes. In: A. Tucker, F. Höppner, A. Siebes und S. Swift (Hrsg.), Advances in Intelligent Data Analysis XII, Bd. 8207 der Reihe Lecture Notes in Computer Science, S. 127–137. Springer Berlin Heidelberg, 2013.
277. C. Moewes, R. Kruse und B. A. Sabel. Analysis of Dynamic Brain Networks using VAR Models. In: R. Kruse, M. R. Berthold, C. Moewes, M. A. Gil, P. Grzegorzewski und O. Hryniwicz (Hrsg.), Synergies of Soft Computing and Statistics for Intelligent Data Analysis Bd. 190 Advances in Intelligent Systems and Computing (AISC), S. 525–532, Springer–Verlag, Heidelberg Berlin, 2013.
278. R. Kruse, M. R. Berthold, C. Moewes, M. A. Gil, P. Grzegorzewski und O. Hryniwicz (Eds.). Synergies of Soft Computing and Statistics for Intelligent Data Analysis, Bd. 190 Advances in Intelligent Systems and Computing (AISC), Springer, Heidelberg Berlin, 2013.

279. P. Held und K. Dannies. Clustering on Dynamic Social Network Data. In: R. Kruse, M. R. Berthold, C. Moewes, M., A. Gil, P. Grzegorzewski und O. Hryniewicz (Hrsg.), Synergies of Soft Computing and Statistics for Intelligent Data Analysis, Bd. 190 der Reihe Advances in Intelligent Systems and Computing(AISC), S. 563–571, Springer-Verlag, Heidelberg Berlin, 2013.
280. C. Braune, C. Borgelt und R. Kruse. Behavioral Clustering for Point Processes. In: A. Tucker, F. Höppner, A. Siebes und S. Swift (Eds.), Advances in Intelligent Data Analysis XII, Bd. 8207 der Reihe Lecture Notes in Computer Science, S. 127–137. Springer Berlin Heidelberg, 2013.
281. P. Held, J. Hempel und R. Kruse. Cluster-based Visualization of Dynamic Graphs. In: F. Hoffmann und E. Hüllermeier (Hrsg.), Proceedings 23. Workshop Computational Intelligence, Dortmund, 5. – 6. Dezember 2013, Bd. 46 der Reihe Schriftenreihe des Instituts für Angewandte Informatik – Automatisierungstechnik, Karlsruher Institut für Technologie, S. 21–37, Karlsruhe, Dezember 2013.
282. P. Held, R. Kruse. Analysis and Visualization of Dynamic Clusterings. In: 46th Hawaii International Conference on System Sciences, S. 1385–1393, Los Alamitos, CA, USA, 2013.
283. R. Kruse, P. Held und C. Moewes. On Fuzzy Data Analysis, in R. Seising, E.Trillas, C. Moraga, S. Termini (Eds.), On Fuzziness, Bd. 291 Studies in Fuzziness and Soft Computing 291, S. 351–356. Springer, Heidelberg 2013.
284. F. Schmidt, J. Wendler, J. Gebhardt, R. Kruse. Handling inconsistencies in the revision of probability distributions. HAIS13, Lecture Notes in Computer Science 8073, pages 598–607. Springer Berlin, 2013.
285. A. Meier, M. Gonter und R. Kruse. Accelerating Convergence in Cartesian Genetic Programming by Using a New Genetic Operator. In: Proceedings of the fifteenth annual conference on Genetic and evolutionary computation conference, GECCO 2013, pp 981–988, Amsterdam, 2013.
286. A. Meier, M. Gonter und R. Kruse. Approximationsverfahren für kollisionsbedingte Geschwindigkeitskurven. In: Proceedings of 23. Workshop Computational Intelligence. KIT Scientific Publishing, Dezember 2013.
287. C. Reichert, M. Kennel, R. Kruse, H.-J. Heinze, U. Schmucker, H. Hinrichs und J. W. Rieger. Robotic Grasp Initiation by Gaze Independent Brain Controlled Selection of Virtual Reality Objects. In: NEUROTECHNIX 2013 – Proceedings of the International Congress on Neurotechnology, Electronics and Informatics, S. 5–12, CITEPRESS Digital Library, 2013.

288. C. Reichert, M. Kennel, R. Kruse, H. Hinrichs und J. W. Rieger. Efficiency of SSVEF Recognition from the Magnetoencephalogram – A Comparison of Spectral Feature Classification and CCA-based Prediction. In: NEUROTECHNIX2013 – Proceedings of the International Congress on Neurotechnology, Electronics and Informatics, S. 233–237. SCITEPRESS Digital Library, 2013.
289. R. Winkler, F. Klawonn und R. Kruse. A New Distance Function for Prototype Based Clustering Algorithms in High Dimensional Spaces. In: P. Giudici, S. Ingrassia, M. Vichi, (Eds) Statistical Models for Data Analysis, pp. 371–378. Springer, 2013.
290. C. Braune, M. Glauer, R. Kruse. Towards Online Detection of Neural Assemblies in Parallel Spike Trains, HICSS'48, Hawaii, pp: 1503–1511, 2013.
291. P. Held, A. Dockhorn, R. Kruse. On Merging and Dividing of Barabasi Albert– Graphs. In: Symposium on Evolving and Autonomous Learning Systems (EALS), IEEE Symposium on Computational Intelligence, IEEE SSCI, S. 17–24. 2014.
292. P. Held, A. Dockhorn, R. Kruse. Generating Events for Dynamic Social Network Simulations. In: A. Laurent, O. Strauss, B. Bouchon-Meunier und R. R. Yager (Eds.), Information Processing and Management of Uncertainty in Knowledge-Based Systems, Communications in Computer and Information Science, Springer S. 46–55, Switzerland, 2014.
293. C. Braune und R. Kruse. Active Learning–Based Identification of Neuronal Assemblies in Parallel Spike Trains. Proceedings 24. Workshop Computational Intelligence, Dortmund, 2014.
294. A. Meier, M. Gonter und R. Kruse. Precrash Classification of Car Accidents for Improved Occupant Safety Systems. 2nd International Conference on System–Integrated Intelligence: Challenges for Product and Production Engineering. Procedia Technology, 15:198–207, 2014.
295. A. Meier, M. Gonter und R. Kruse. Symbolic Regression for Precrash Accident Severity Prediction. In: Hybrid Artificial Intelligence Systems, Bd. 8480 der Reihe Lecture Notes in Computer Science, S. 133–144. Springer International Publishing, 2014.
296. C. Reichert, M. Kennel, R. Kruse und H. Hinrichs. An asynchronous BMI for autonomous robotic grasping based on SSVEF detection. In: Proceedings of the 6th International Brain–Computer Interface Conference 2014, Austria, Verlag der Technischen Universität Graz. 2014.
297. K. Loewe, M. Grueschow, C. M. Stoppel, R. Kruse, C. Borgelt. Fast Construction of Voxel Level Functional Connectivity Graphs. BMC Neuroscience 15, 2014.

298. C. Braune, S. Besecke, R. Kruse. Using Changes in Distribution to Identify Synchronized Point Processes, Proc. 7th International Conference on Soft Methods in Probability and Statistics, Warschau in P. Grzegorzewski et al.: Strengthening Links Between Data Analysis and Soft Computing, Volume 315, Series Advances in Intelligent Systems and Computing, pp 241–248, Springer, 2014.
299. F. Schmidt, J. Gebhardt, R. Kruse. Handling revision inconsistencies: Creating useful explanations. In HICSS-48, Proceedings, 5–8 January 2015, Koloa, Kauai, HI, USA, pages 3712–3718. IEEE Computer Society, 2015.
300. C. Braune, M. Glauer, R. Kruse: Towards Online Detection of Neural Assemblies in Parallel Spike Trains. HICSS-48: 1503–1511, 2015.
301. C. Reichert, S. Dürschmid, H. Hinrichs, R. Kruse, Efficient Recognition of Event-Related Potentials in High-Density MEG Recordings, 7th Computer Science & Electronic Engineering Conference, CEEC'2015, Essex, pp. 81–86, 2015.
302. F. Schmidt, J. Gebhardt, R. Kruse: Handling Revision Inconsistencies: Towards Better Explanations. ECSQARU'2015, Compiegne, 2015, In: S. Destercke, T. Denoeux: Symbolic and Quantitative Approaches to Reasoning with Uncertainty, Springer LNAI 9161, pp. 257–266, 2015.
303. C. Braune, S. Besecke und R. Kruse. Using Changes in Distribution to IdentifySynchronized Point Processes. In: P. Grzegorzewski, M. Gagolewski, O. Hryniwiczund M. A. Gil (Hrsg.), Strengthening Links Between Data Analysis and Soft Computing, Advances in Intelligent Systems and Computing, S. 241–248. Springer International Publishing, 2015.
304. C. Braune, M. Glauer und R. Kruse. Towards Online Detection of Neural Assemblies in Parallel Spike Trains. In: 48th Hawaii International Conference on System Sciences (HICSS), 2015, S. 1503–1511, 2015.
305. C. Braune und R. Kruse. Detecting parallel bursts in in silico generated parallel spike train data. BMC Neuroscience, 16(Suppl. 1):P134, 2015.
306. A. Dockhorn, C. Braune und R. Kruse. An Alternating Optimization Approach based on Hierarchical Adaptations of DBSCAN. In: 2015 IEEE Symposium Series on Computational Intelligence (SSCI), Bd. 2, 2015.
307. C. Doell, P. Held, R. Moura, R. Kruse und M. Beer. Analysis of a majoraccident dataset by Association Rule Mining to minimise unsafe interfaces. In: E. Patelli und I. Kougioumtzoglou (Hrsg.), Proc. of the 13th International Probabilistic Workshop (IPW 2015), S. 218–230. IPW 2015 Organisers, Research Publishing, 2015.

308. C. Doell, P. Held, R. Moura, R. Kruse, M. Beer Analysis of a major-accident dataset by Association Rule Mining to minimise unsafe interfaces International Probabilistic Workshop (IPW 2015), Liverpool–UK; 2015
309. K. Kaczmarek, O. Hryniwicz, R. Kruse, Human Input about Linguistic Summaries in Time Series Forecasting The Eighth International Conference on Advances in Computer-Human Interactions 02, 2015.
310. P. Held, C. Braune und R. Kruse. Exploring dinofun park happenings. In: Visual Analytics Science and Technology (VAST), 2015 IEEE Conference on, S. 157–158, 2015.
311. P. Held, A. Dockhorn, B. Krause und R. Kruse. Clustering Social Networks Using Competing Ant Hives. In: R. Bilof (Hrsg.), Network Intelligence Conference (ENIC), 2015 Second European, S. 67–74. IEEE, 2015.
312. R. Kruse, C. Borgelt, C. Braune und K. Löwe. Mining Frequent Parallel Episodes with Selective Participation. In: 16th World Congress of the International Fuzzy Systems Association (IFSA) and 9th Conference of the European Society for Fuzzy Logic and Technology (EUSFLAT). Atlantis Press, 2015
313. R. Moura, C. Doell, M. Beer und R. Kruse. A Clustering Approach to a Major-Accident Data Set: Analysis of Key Interactions to Minimise Human Errors. In: IEEE Symposium Series on Computational Intelligence (SSCI), S. 1838–1843. IEEE, 2015.
314. P. Held, R. Kruse. Online fuzzy community detection by using nearest hubs, Information Processing and Management of Uncertainty in Knowledge-Based Systems, 16th International Conference, (IPMU 2016) S. 678–689 Eindhoven, 2016
315. P. Held, R. Kruse. Detecting overlapping community hierarchies in dynamic graphs. Proceedings of the 2016 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining San Francisco, 1063–1070, 2016
316. C. Braune, M. Dankel, R. Kruse. Obtaining shape descriptors from a concave hull-based clustering algorithm Advances in Intelligent Data Analysis XV : 15th International Symposium, IDA 2016, Springer Lecture Notes in Computer Science 9897, S. 61–72, Cham, 2016
317. T.Nguyen, J. Spehr, M. Uhlemann, M.Darms, S. Zug, R. Kruse.Learning of Lane Information Reliability for Intelligent Vehicles, IEEE 2016 International Conference on Multisensor Fusion and Integration for Intelligent Systems (MFI), 2016.
318. P. Held, R. Kruse. Dynamic Clustering in Social Networks using Louvain and Infomap Method, Third European Network Intelligence Conference, Warschau, 2016.

319. C. Braune, R. Kruse, Fuzzy Density Based Clustering with Generalized Centroids. IEEE Symposium Series on Computational Intelligence, Athens, 2016.
320. A. Dockhorn, C. Braune, R. Kruse. Variable Density Based Clustering, IEEE Symposium Series on Computational Intelligence, Athens, 2016.
321. F. Schmidt, J. Gebhardt, R. Kruse, Detecting Inconsistencies in Revision Problems, In M.B. Ferraro et al (Eds.) Soft Methods for Data Science, Springer Series Advances in Intelligent Systems and Computing, 439–446, 2017.
322. C. Borgelt, R. Kruse, Agglomerative Fuzzy Clustering, In M.B. Ferraro et al (Eds.) Soft Methods for Data Science, Springer Series Advances in Intelligent Systems and Computing, 69–77, 2017.
323. Ezennaya-Gomez, S., C. Borgelt, C. Braune, K. Loewe, and R. Kruse. Handling selective participation in neuron assembly detection". In: Computational Intelligence: International Joint Conference, IJCCI 2015 Lisbon, Portugal, Revised Selected Papers. Springer International Publishing, pp. 386–406, 2017.