

List of Publications

Books:

- [B17] Bock, H.-H., with W. Gaul, T. Imaizumi, A. Okada (eds.):
Cooperation in classification and data analysis.
Proceedings of two Japanese-German workshops (Tokyo, Berlin).
Springer Verlag, Heidelberg, 2009. 208 pp. ISBN 978-3-642-00667-8
- [B16] Bock, H.-H., with V. Batagelj, A. Ferligoj, and A. Ziberna (eds.):
Data science and classification.
Springer Verlag, Heidelberg, 2006. 358 pp. ISBN 3-540-34415-2
- [B15] Bock, H.-H., with M. Chiodi and A. Mineo (eds.):
Advances in multivariate data analysis.
Springer Verlag, Heidelberg, 2004. 281 pp. ISBN 1431-8814
- [B14] Bock, H.-H., with K. Jajuga and A. Sokolowski (eds.):
Classification, clustering, and data analysis.
Recent advances and applications.
Springer Verlag, Heidelberg, 2002. 492 pp. ISBN 3-540-43691-x.
- [B13] Bock, H.-H., mit P. Ihm (Hrsg.):
25 Jahre Gesellschaft für Klassifikation.
Klassifikation und Datenanalyse im Wandel der Zeit.
Shaker Verlag, Aachen, 2002. 194 S. ISBN 3-8265-9778-8.
- [B12] Bock, H.-H., with E. Diday (eds.):
Analysis of symbolic data.
Exploratory methods for extracting statistical information from complex data.
Springer Verlag, Heidelberg, 2000. 425 pp. ISBN 3-540-66619-2.
- [B11] Bock, H.-H., with A. Rizzi, M. Vichi (eds.):
Advances in data science and classification.
Proc. 6th Conference of the International Federation of Classification Societies (IFCS-98), Rome Italy, July 21 - 24, 1998. Springer Verlag, Heidelberg, 1998. 677 pp. ISBN 3-540-64641-8.
- [B10] Bock, H.-H., with C. Hayashi, N. Ohsumi, K. Yajima, Y. Tanaka and Y. Baba (eds.):
Data science, classification and related methods.
Proc. 5th Conference of the International Federation of Classification Societies (IFCS-96), Kobe, Japan, March 27-30, 1996. Springer Verlag, Tokyo, 1998. 781 pp. ISBN 4-431-70208-3.
- [B9] Bock, H.-H., Polasek, W. (eds.):
Data analysis and information systems.
Statistical and conceptual approaches. Proc. 19th Annual Conference of the Gesellschaft für Klassifikation, University of Basel, March 8-10, 1995. Springer Verlag, Heidelberg, 1996. 548 pp. ISBN 3-540-60774-9.
- [B8] Bock, H.-H., Lenski, W., Richter, M.M. (eds.):
Information systems and data analysis.
Prospects - foundations - applications. Proc. 17th Annual Conference of the Gesellschaft für Klassifikation, University of Kaiserslautern, March 3-5, 1993. Springer-Verlag, Heidelberg, 1994, 463 pp., ISBN 3-540-58057-3.

- [B7] Bock, H.-H., Ihm, P. (eds.):
Classification, data analysis, and knowledge organization.
 Models and methods with applications. Proc. 14th Annual Conference of the Gesellschaft für Klassifikation, University of Marburg, March 12-14, 1990. Springer-Verlag, Heidelberg-Berlin-New-York, 1991, 393 pp., ISBN 0-387-53483-0.
- [B6] Bock, H.-H. (ed.):
Classification and related methods of data analysis.
 Proc. First Conference of the International Federation of Classification Societies (IFCS-87), Aachen, 1987. North Holland, Amsterdam, 1988, 745 pp., ISBN 0-444-70404-3.
- [B5] Bock, H.-H. (ed.):
Anwendungen der Klassifikation: Datenanalyse und numerische Klassifikation.
 Proc. 9. Fachtagung der Gesellschaft für Klassifikation, Hofgeismar, 1984. Studien zur Klassifikation SK-15. Indeks-Verlag, Frankfurt, 1984, 282 pp., ISBN 3-88672-014-4.
- [B4] Bock, H.-H. (with P. Ohly, D. Bender, eds.):
Software zur Clusteranalyse, Netzwerkanalyse und verwandten Verfahren.
 Informationszentrum Sozialwissenschaften, Bonn, 1983.
- [B3] Bock, H.-H. (ed.):
Klassifikation und Erkenntnis III: Numerische Klassifikation.
 Proc. 3. Fachtagung der Gesellschaft für Klassifikation, Königstein, 1979. Studien zur Klassifikation SK-6. Indeks-Verlag, Frankfurt, 1979, 174 pp., ISBN 3-88283-006-9.
- [B2] Bock, H.-H. (with I. Dahlberg, W. Dahlberg, R. Fugmann, eds.):
Kooperation in der Klassifikation I.
 Proc. 2. Fachtagung der Gesellschaft für Klassifikation, Frankfurt/Höchst, 1978. Indeks-Verlag, Frankfurt, 1978. 214 pp., ISBN 3-88283-002-6.
- [B1] Bock, H.-H.:
Automatische Klassifikation. Theoretische und praktische Methoden zur Gruppierung und Strukturierung von Daten (Cluster-Analyse).
 Vandenhoeck & Ruprecht, Göttingen, 1974, 480 pp., ISBN 3-525-40130-2.

Journals and book series:

H.-H. Bock is

- Editor of the Springer Publication Series
"Studies in Classification, Data Analysis, and Knowledge Organization"
- Editor of the Springer journal
"Advances in Data Analysis and Classification"

Scientific Articles:

- [A70] Bock, H.-H., with Jan Schepers, Iven Van Mechelen:
Maximal interaction two-mode clustering
Submitted
- [A69] Bock, H.-H.:
Probabilistic two-way clustering approaches with emphasis on the maximum interaction criterion.
In: Andreas Geyer-Schulz, Jozef Pocięcha (eds.):
Proc. 3rd Bilateral German-Polish Symposium on Data Analysis and its Applications, Dresden,
September 26-28, 2013.
Archives of Data Science, vol. 1(1), 2014. KIT Scientific Publishing, ISSN 2363-9881
- [A68] Bock, H.-H.:
Model-based clustering methods for time series.
In: Wolfgang Gaul, Andreas Geyer-Schulz, Yasumasa Baba, Akinori Okada (eds.):
German-Japanese Interchange of Data Analysis Results.
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- [A67] Bock, H.-H.:
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In: Jozef Pocięcha (ed.): Data analysis methods in economic research.
Proc. 3rd Scientific Conference on Modelling and Forecasting of Socio-Economic Phenomena, Zakopane,
Poland, May 5-8, 2009. Studia i Prace, Uniwersytetu Ekonomicznego w Krakowie, Krakow, Poland, 2010,
7-37.
- [A66] Bock, H.-H.:
Probabilistic methods for symbolic data.
In: P. Brito et al. (ed.): COMPSTAT Proceedings in Computational Statistics.
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- [A65] Bock, H.-H.:
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In: A. Okada, T. Imaizumi, W. Gaul, H.-H. Bock (eds.): Cooperation
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- [A64] Bock, H.-H.:
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In: Diday, E., Noirhomme-Fraiture, M. (eds.): Symbolic Data Analysis and the
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Selected Contributions in Data Analysis and Classification.
Festschrift for Edwin Diday.
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- [A61] Bock, H.-H., with F.A.T. de Carvalho, P. Brito:
Dynamic clustering for interval data based on L_2 distance.
Computational Statistics 21 (2006) 231-250.

- [A60] Bock, H.-H.:
Optimization in symbolic data analysis: dissimilarities, class centers, and clustering.
In: Baier, D., Decker, R., Schmidt-Thieme, L. (eds.): *Data analysis and decision support.*
Springer-Verlag, Heidelberg, 2005, 3-10.
- [A59] Bock, H.-H.:
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Proc. 55th Session of the International Statistical Institute, Sydney, 5-12 April 2005.
(Extended abstract, 4 pp.)
- [A58] Bock, H.-H.:
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In: Le Thi Hoai An, Pham Dinh Tao (eds.): 'Modelling, Computation and Optimization in Information Systems and Management Sciences'. Hermes, Paris, 2004, 19-27.
- [A57] Bock, H.-H., with I. Van Mechelen, P. De Boeck:
Two-mode clustering methods: a structured review.
Statistical Methods in Medical Research 13 (2004). 363-394.
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- [A55] Bock, H.-H.:
Two-way clustering for contingency tables: Maximizing a dependence measure.
In: M. Schader, W. Gaul and M. Vichi (eds): *Between data science and applied data analysis.*
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- [A54] Bock, H.-H.:
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J. of the Japanese Society of Computational Statistics 15.2 (2003), 217-229.
- [A53] Bock, H.-H., W.H.E. Day, F.R. McMorris:
Strategy-proof consensus rules for committee elections.
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- [A52] Bock, H.-H.:
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- [A51] Bock, H.-H.:
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Statistics in Transition 5 (2002), 725-758.
- [A50] Bock, H.-H., W.H.E. Day, F.R. McMorris:
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In: R. Decker, W. Gaul (eds): *Classification and Data Analysis. Proc. 23th Annual Conference of the Gesellschaft für Klassifikation, Univ. Bielefeld, 10-12 March 1999.*
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- [A48] Bock, H.-H.:
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In: C. Hayashi, N. Ohsumi, K. Yajima, Y. Tanaka, H.-H. Bock, Y. Baba (eds.):
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In: Ph. Arabie, L. Hubert, G. De Soete (eds.): Clustering and classification.
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- [A35] Bock, H.-H.:
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- [A31] Bock, H.-H.:
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- [A29] Bock, H.-H.:
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- [A11] Bock, H.-H.:
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- [A10] Bock, H.-H.:
1. Clustering by density estimation.
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3. Fuzzy clustering procedures.
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- [A4] Bock, H.-H.:
Statistische Modelle und Bayes'sche Verfahren zur Bestimmung einer unbekanntes Klassifikation normalverteilter zufälliger Vektoren.
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Über die Anwendung Lyapunov'scher Methoden auf stochastische Kontrollprozesse. Diplomarbeit, Universität Freiburg/Brsg., 1965, 67 p.

Various Contributions, e.g. in encyclopedia, abstract volumes, festschriften:

- [C19] Bock, H.-H.:
The 10th IFCS Conference – a jubilee.
In: V. Batagelj, H.-H. Bock, A. Ferligoj, A. Ziberna (eds.): *Data Science and Classification.* Proc. 10th Conference of the International Federation of Classification Societies (IFCS), Ljubljana, Slovenia. Springer-Verlag, Heidelberg, 2006, VII-VIII.
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- [C10] Bock, H.-H.:
Clustering and self-organizing networks: Regression-type models and optimization algorithms.-
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H.-J. Schneider (ed.): *Lexikon der Informatik und Datenverarbeitung.* Oldenbourg-Verlag, München, 1996 (4. Auflage), 1001 pp.
- [C8] Bock, H.-H.:
Simultaneous visualization and classification methods as an alternative to Kohonen's nets.
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