

# Roger Needham: Publications

Compiled by Karen Spärck Jones

With T. Joyce:

'The thesaurus approach to information retrieval,' *American Documentation*, 9 (3), 1958, 192–197; reprinted in *Readings in information retrieval*, ed. K. Spärck Jones and P. Willett, San Francisco, CA: Morgan Kaufmann, 1997.

With M. Masterman and K. Spärck Jones:

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'A reduction method for non-arithmetic data, and its application to thesauric translation,' *Information Processing: Proceedings of the International Conference on Information Processing* (1959), Paris, 1960, 321–327.

With A.F. Parker-Rhodes:

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With A.H.J. Miller and K. Spärck Jones:

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'The theory of clumps II,' Cambridge Language Research Unit, Report M.L. 139, 1961.

*Research on information retrieval, classification and grouping 1957–1961*, Ph.D. thesis, University of Cambridge; Cambridge Language Research Unit, Report M.L. 149, 1961.

'A method for using computers in information classification,' *Information Processing 62: Proceedings of IFIP Congress 1962*, ed. C. Popplewell, Amsterdam: North-Holland, 1963, 284–287.

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‘Automatic classification for information retrieval,’ lectures given at the NATO Advanced Study Institute on Automatic Document Analysis, Venice, 1963; abstracts published as Cambridge Language Research Unit Report M.L. 166, 1963.

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‘Semantic problems of machine translation,’ *Information Processing 65: Proceedings of IFIP Congress 1965*, ed. W. Kalenich, Washington DC: Spartan Books, 1965, vol. 1, 65–69.

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‘The termination of certain iterative processes,’ Rand Corporation, Santa Monica, Report RM-5188-PR, 1966.

‘Automatic classification in linguistics,’ *The Statistician*, 17 (1), 1967, 45–54.

With D.W. Barron, A.G. Fraser, D.F. Hartley, and B. Landy:

‘File handling at Cambridge University,’ *Proceedings of the 1967 Spring Joint Computer Conference, AFIPS Conference Proceedings*, vol. 30, 1967, 163–167.

With K. Spärck Jones:

‘Automatic term classifications and retrieval,’ *Information Storage and Retrieval*, 4 (2), 1968, 91–100.

With M.V. Wilkes:

‘The design of multiple-access computer systems: part 2,’ *Computer Journal*, 10, 1968, 315–320.

With D.F. Hartley and B. Landy:

‘The structure of a multiprogramming supervisor,’ *Computer Journal*, 11, 1968, 247–255.

‘Consoles in the cloisters,’ *Datamation*, January 1969.

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‘Operational experience with the Cambridge multiple-access system,’ *Computer Science and Technology*, Conference Publication 55, Institution of Electrical Engineers, London, 1969, 255–260.

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‘Theory and practice in operating system design,’ *2nd ACM Symposium on Operating System Principles*, Princeton, 1969, New York: ACM, 1969, 8–12.

‘Software engineering techniques and operating system design and production’ and, with D. Aron, ‘Software engineering and computer science,’ in *Software engineering techniques*, ed. J. Buxton and B. Randell, NATO Scientific Affairs Committee, NATO, Brussels, 1970, 111–113 and 113–114.

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With A.D. Birrell:

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With M.D. Schroeder and D.K. Gifford:

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