

- Cleverdon, C. W., Mills, J., & Keen, M. (1966). Factors determining the performance of indexing systems, vol. 1—Design, vol. 2—Test results. ASLIB Cranfield Project, Cranfield.
- Cooper, W. S. (1973). On selecting a measure of retrieval effectiveness. *Journal of the American Society for Information Science (JASIS)*, 24, 87–100.
- Frants, V. I., & Brush, C. B. (1988). The need for information and some aspects of information retrieval systems construction. *Journal of the American Society for Information Science*, 39, 86–91.
- Frants, V. I., Voiskunskii, V. G., & Frants, Y. I. (1970). Evaluation of magnitude of possible losses of information during indexing. *Nauchno-Tekhnicheskaya Informatsiya (NTI)*, ser. 2, no. 5, 14–15.
- Heine, M. H. (1975). Distance between sets as an objective measure of retrieval effectiveness. *Information Storage and Retrieval*, 9, 181–198.
- Kolmogorov, A. N., & Fomin S. B. (1968). *Elements of the theory of functions and functional analysis*. (2nd ed.). Moscow: Nauka.
- Kraft, D., & Bookstein, A. (1978). Evaluation of information retrieval systems: A decision theoretic approach. *Journal of the American Society for Information Science (JASIS)*, 29, 31–40.
- Lancaster, F. W. (1979). *Information retrieval systems: Characteristics, testing, evaluation*. New York: John Wiley and Sons.
- Popov, C. B. (1981). Characteristics of IR functioning and search situation. *Nauchno-Tekhnicheskaya Informatsiya (NTI)*, ser. 2, no. 9, 9–13.
- Raghavan, V. V., Bollmann, P., & Jung, G. S. (1989). Retrieval system evaluation using recall and precision: Problems and answers (extended abstract). Proceedings of the Twelfth Annual International ACM SIGIR Conference on research and development in information retrieval. Cambridge, MA, 59–68.
- van Rijsbergen, C. J. (1979). *Information retrieval* (2nd ed.). London: Butterworths.
- Salton, G. (1975). *Dynamic information and library processing*. Englewood Cliffs, NJ: Prentice Hall.
- Salton, G., & McGill, M. J. (1983). *Introduction to modern information retrieval*. New York: McGraw Hill.
- Saracevic, T. (1995). Evaluation of evaluation in information retrieval. Proceedings of the Eighth Annual International ACM SIGIR Conference on research and development in information retrieval. Seattle, WA, 138–146.
- Shaw, W. M. (1995). Term-relevance computation and perfect retrieval performance. *Information Processing and Management*, 31, 491–498.
- Sparck-Jones, K. (1980). Performance averaging for recall and precision. *Journal of Informatics*, 2, 95–105.
- Voiskunskii, V. G. (1980). Search space and documentary search. *Nauchno-Tekhnicheskaya Informatsiya (NTI)*, ser. 2, no. 9, 17–22.
- Voiskunskii, V. G. (1983). One class of search characteristics. *Nauchno-Tekhnicheskaya Informatsiya (NTI)*, ser. 2, no. 8, 12–15.
- Voiskunskii, V. G. (1984). The distance in  $n$ -dimensional vector space and search characteristics. *Nauchno-Tekhnicheskaya Informatsiya (NTI)*, ser. 2, no. 1, 18–20.
- Voiskunskii, V. G. (1987). Applicability of search characteristics. *Nauchno-Tekhnicheskaya Informatsiya (NTI)*, ser. 2, no. 12, 18–24.
- Voiskunskii, V. G. (1992). Construction of search characteristics. *Nauchno-Tekhnicheskaya Informatsiya (NTI)*, Ser. 2, No. 9, 6–9.

### Bibliographic Remarks

To get a deeper understanding of problems that arise when evaluating IR systems, we recommend the following publications.

- van Rijsbergen, C. J. (1979). *Information retrieval* (2nd ed.). London: Butterworths.
- Saracevic, T. (1995). Evaluation of evaluation in information retrieval. Proceedings of the Eighth

- teenth Annual International ACM SIGIR Conference on research and development in information retrieval. Seattle, WA, 138–146.
- Voiskunskii, V. G. (1980). Search space and documentary search. *Nauchno-Tekhnicheskaya Informatsiya (NTI)*, ser. 2, no. 9, 17–22.
- Voiskunskii, V. G. (1992). Construction of search characteristics. *Nauchno-Tekhnicheskaya Informatsiya (NTI)*, ser. 2, no. 9, 6–9.