



AN ABBREVIATED ANNOTATED BIBLIOGRAPHY

Herbert A. Simon 1916–2001

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“I like to think that since I was about 19, I have studied human decision-making and problem-solving”.

Herbert Simon, 2000

Introduction

The items covered here do not represent a complete reconstruction of the literature but provide some starting points for the researcher. The sources for literature are the online catalogues called WorldCat (libraries within the Online Computer Library Center Inc. (OCLC) consortium), COPAC (libraries within the academic consortium, UK), the catalogues of London School of Economics, The British Library and the Library of Congress. The search for journal articles was undertaken using the databases available at the universities in Perth, Western Australia. No non-paper media have been included in this bibliography.

Format

The bibliography is divided into two major sections. The first provides abbreviated references, listed in chronological order, grouped under topic headings. In this section titles have been abbreviated to save space but the bibliographic details appear in full, alphabetically by author, in the second section. The topic headings in the first section deal, first, with Simon and his research, and then his publications in the fields of public administration, management, economics, human decision making, computer science and mathematics, philosophy of science, philosophy of social science and other





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fields; second, items which reflect how his work influenced public administration, management, organization and business, the analysis of human behaviour and computers as artificial humans; third, the influence of his work on the wider fields of linguistics, education, economics, political science, science, social science and other areas. A full list of references, in alphabetical order by author, comprises the second major section. In some citations multiple dates are given, separated by commas. This indicates the reprinting of an edition. Different editions are treated as separate citations.

Herbert Alexander Simon: the man and the research

A number of websites are dedicated to Herbert Simon

His Nobel Prize of Economics lecture (Dec. 8 1978) 'Rational Decision-Making in Business Organizations' can be read at <http://nobelprize.org/economics/laureates/1978/index.html>. The lecture is republished in various places (Lindbeck 1992, Simon 1979c). Simon was a member of the Unitarian Church <http://www.harvardsquarelibrary.org/unitarians/simon.html>. The site has a biography with portraits of Simon's wife, Dorothea, daughters Barbara, Katherine, son Peter. A further biography can be accessed at <http://cepa.newschool.edu/~het/profiles/simon.htm> and at <http://www.psy.cmu.edu/psy/faculty/hsimon/hsimon.html>. The Herbert Simon Collection (archive) can be accessed at <http://diva.library.cmu.edu/Simon/>.

Hunt, N. C. (1980) Herbert Simon appreciation and aspiration . . .

Peng, W. (1981) *Saimengshi di si xiang ti xi yu zu zhi yuan li* . . .

— (1982) *Jue ce lun qi cai Saimeng* . . .

Fry, B. R. (1989) *Mastering Public Administration* . . .

See chapter 7 'Herbert A. Simon: A decision-making perspective' pp. 181–217.

Simon, H. A. (1991b) *Models of My Life* . . .

Republished in 1996. Translated into Italian (Simon 1992b), Japanese (Simon 1998a) and Chinese (Simon 1998b).

Waring, S. P. (1991) *Economics and cybernetics* . . .

Demailly, A. (1993) *La Psychologie Sociale: H.-A. Simon & R. Pagès* . . .

Taka, I. (1995) *Habato ei saimon kenkyu* . . .

Wolf, W. B. (1995a) The Barnard-Simon connection . . .

For more information on Barnard see Wolf (1961; 1974).

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Liu, F. and Xu, R. (2000) *You xian li xing di dian ji ren* . . .

Pugh, D. S. and Hickson, D. J. (2000) *Great Writers on Organizations* . . .

See entry on Herbert Simon pp. 189–194.

Rainey, H. G. (2001) A reflection on Herbert Simon . . .

Zhu, X. and Li, Y. (2001) *Jia she ren you dian nao de qiao liang* . . .

Gobet, F. (2002) Travailler avec Herbert Simon . . .

Larkey, P. D. (2002) Ask a simple question: a retrospective on Herbert Alexander Simon . . .

Pitrat, J. (2002) *Représentations, Découverte et Rationalité* . . .



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- Schwartz, H. (2002) Herbert Simon and behavioral economics . . .
- Bendor, J. (2003) Herbert A. Simon: political scientist . . .
- Dasgupta, S. (2003) Multidisciplinary creativity: the case of Herbert A. Simon . . .
- Gow, J. I. (2003) Decision man . . .
- Minkes, A. L. and Foxall, G. R. (2003) Herbert Simon and the concept of dispersed entrepreneurship . . .
- Augier, M. and March, J. G. (2004) Herbert A. Simon, scientist . . .
See Augier and March (2004). Also in this monograph are chapters by Herbert Simon's daughter (Simon Frank, K. 2004), close associates/friends (Feigenbaum 2004, Guetzkow 2004, March 2004, Miller 2004, Modigliani 2004, Valdes-Perez 2004) and others (Conlisk 2004, Cooper 2004, Feldman 2004, Klahr 2004, Kotovsky 2004, Leijonhufvud 2004, Lovell 2004, Selten 2004)
- Hayes, J. R. (2004) Herbert A. Simon: 1916 to 2001 . . .
- McCorduck, P. (2004) Herb Simon: a recollection . . .
See Augier and March (2004).
- Demailly, A. (2004) *Herbert Simon et Les Sciences de Conception* . . .
- Sent, E.-M. (2005) Simplifying Herbert Simon . . .
See also Sent (1997, 1998c, 2001b, 2004b).

Simon publications

An extensive but incomplete bibliography of works published by Herbert Simon is available on the internet at <http://www.psy.cmu.edu/psy/faculty/hsimon/hsimon.html>. Many of Simon's articles and reports have been reprinted and can be found in other compilations, for example, Warner and Martin (1959), Hill and Egan (1966), Mosher (1981), Pugh (1984), Maital and Maital (1993), Kurtz *et al.* (1998), Shafritz and Hyde (1992), Hodgson (1993), Zamagni (1995), Williamson and Masten (1995), Lamberton (1996), Dimand and Dimand (1997), Hamouda and Rowley (1997), Lancaster (1998), Hanusch (1999); Keasey, Thompson and Wright (1999), Audretsch and Klepper (2000) and Sattinger (2001). The following section lists respective items to provide an indication of the breadth of scholarship of Herbert Simon. The section does not represent a full bibliography of Simon's publications.

Public administration

- Ridley, C. E. and Simon, H. A. (1938) *Measuring Municipal Activities*
See later editions, Ridley and Simon (1943, 1967, 1979) and the reworked publication Simon (1945b, 1947) and Ridley and Simon (1948). Second edition translated into Japanese (Ridley and Simon 1999).
- Simon, H. A. and Divine, W. R. (1941) Controlling human factors in an administrative experiment . . .





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- Simon *et al.* (1941) *Determining Work Loads for Professional Staff in a Public Welfare Agency* . . .
- Simon, H. A. (1943) *A theory of Administrative Decision*. Unpublished PhD, University of Chicago: Chicago, IL.
- Part of thesis, 'Decision-making and administrative organization', published as Simon (1944, 1960).
- (1945a) *Administrative Behavior* . . .
Published later by Macmillan (Simon 1947, 1948, 1949, 1953) with a second edition in hardcover (Simon 1957b, 1958, 1959, 1961, 1965, 1970) and paperback (Simon 1957c, 1965, 1966). A third edition appeared in 1976 and a fourth in 1997. Abbreviated version published in Mosher (1981). First edition translated into German (Simon 1955b), Portuguese (Simon 1956) and Spanish (Simon 1962a). Second edition translated into Spanish (Simon 1964b, 1970), Japanese (Simon 1965b) and Polish (Simon 1976c). The third edition translated into French (Simon 1983a), Spanish (Simon 1984a), Indonesian (Simon 1984c), Chinese (Simon 1988a) and Japanese (Simon 1989a). The fourth edition translated into Chinese in 1999 (see online bibliography)
- (1946) *The proverbs of administration* . . .
Reprinted in Shafritz and Hyde (1992).
- Simon, H. A., Smithburg, D. W. and Thompson, V. A. (1950, 1954, 1959, 1961, 1968, 1970, 1971) *Public Administration* . . .
Reprinted with a new introduction by Simon and Thompson by Transaction Publishes (Simon, Smithburg and Thompson 1991; see Simon and Thompson 1991a, b). Translated into Spanish (Simon, Smithburg and Thompson 1956; 1968), Chinese (Simon, Smithburg and Thompson 1959, 1964), Vietnamese (Simon, Smithburg and Thompson 1962), Turkish (Simon, Smithburg and Thompson 1966, 1973) and Japanese (Simon, Smithburg and Thompson 1977)
- Waldo, D. (1952) *Development of theory of democratic administration* . . .
See also Simon, H. A., Drucker, P. F. and Waldo, D. (1952) and Waldo (1989; 1992)
- (1965a) *Administrative decision making* . . .
- (1965c) *The logic of rational decision* . . .
- (1973c) *Organization man: rational or self-actualizing?* . . .
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See also the articles by Argyris, C. (1973a, b) and Simon (1974a).
- (2000a) *Public administration in today's world of organizations and markets* . . .
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Management

- Simon, H. A. (1950a) *A Formal Theory of the Employment Relationship*, Santa Monica, CA: Rand Corporation.
Republished as Simon (1951).
- (1950b, 1960) *The New Science of Management Decision* . . .
Reprinted with a different title, Simon (1965d; in paperback 1966) and as a revised edition (Simon 1977b). Translated into Spanish (Simon 1963a) and Japanese (Simon 1964a). Reprint translated into Hungarian (Simon 1982e)





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- Revised edition translated into Japanese (Simon 1979a), French (Simon 1980b), Chinese (Simon 1982a), Spanish (Simon 1982b) and Polish (Simon 1982d).
— (1952a) Comments on the theory of organizations
Simon *et al.* (1954) *Centralization vs. Decentralization in Organizing the Controller's Department* . . .
Reprinted in 1978 by Scholars Book of Houston.
Guetzkow, H. and Simon, H. A. (1955) The impact of certain communication nets upon organization and performance in task-oriented groups . . .
Holt, C. C., Modigliani, F. and Simon, H. A. (1955) A linear decision rule for production and employment scheduling . . .
Simon, H. A. (1957a) The compensation of executives . . .
Reprinted in Sattinger (2001, pp. 127–130)
March, J. G. and Simon, H. A. (1958, 1959, 1966, 1976) *Organizations* . . .
Also published by Carnegie (March and Simon 1967a) and in a new edition by Blackwell (March and Simon 1993). Translated into Spanish (March and Simon 1961, 1962, 1969a), French (March and Simon 1964a, 1969, . . . , 1999), Polish (March and Simon 1964b), Italian (March and Simon 1966), Portuguese (March and Simon 1967b, 1979), Dutch (March and Simon 1969b), Serb-Croat (March and Simon 1972), Turkish (March and Simon 1975), German (March and Simon 1976) and Japanese (March and Simon 1977).
Simon, H. A. and Newell, A. (1958) Heuristic problem solving: the next advance in operations research . . .
— (1959) *What Have Computers to do with Management?* . . .
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Ijiri, Y. and Simon, H. A. (1964) Business firm growth and size . . .
— (1973c) Organization man: rational or self-actualizing? . . .
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See also the articles by Argyris, C. (1973a, b), Simon (1974a) and Thayer (1974).
— (1973g) Technology and environment . . .
Ijiri, Y. and Simon, H. A. (1977) *Skew Distributions and the Sizes of Business Firms* . . .
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See section on Economics (below) for full entry.
— (1982c, 1984, 1997) *Models of Bounded Rationality* . . .
Abridged version of volume 3 translated into Italian (Simon 2000b). Selected sections of 1997 printing, translated into Chinese as Simon (2002g).
Takamiya, S., Thurley, K. and Simon, H. A. (1985) *Japan's Emerging Multinationals* . . .
Prietula, M. J. and Simon, H. A. (1989) The experts in your midst . . .
Simon, H. A. (1993e) Strategy and organizational evolution . . .
— (2002a) Forecasting the future or shaping it?
Simon published other articles on this subject, see also Simon (2002b, d, f).
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- Reprinted in Kurtz *et al.* (1998) and discussed in a modern context by Samuelson (2004 in Augier, M. and March, J. 2004).
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Reprinted as Simon (1980c).
- Simon, H. A. and Ando, A. (1961) Aggregation of variables in dynamic systems . . .
- Holtzinger, J. E., Simon, H. A. and Miller, F. K. (1965) *Milk Price Control in Pennsylvania* . . .
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The lecture is reprinted in Lindbeck (1992).
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- (1986a) Rationality in psychology and economics . . .
- (1990b) A mechanism for social selection and successful altruism . . .
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- (1992a) Methodological foundations of economics . . .
- (1993) Altruism and economics . . .
- (1997b) *An Empirically Based Microeconomics* . . .
- Tabachneck, H. J. and Simon, H. A. (1997) Effect of mode of data presentation on reasoning about economic markets . . .
- Simon, H. A. (1999a) The many shapes of knowledge . . .
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Human decision making

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- Cyert, R. M., Simon, H. A. and Trow, D. B. (1956) Observation of a business decision . . .
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- Dearborn, D. C. and Simon, H. A. (1958) Selective perception . . .
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- Clarkson, G. P. E. and Simon, H. A. (1960) Simulation of individual and group behavior . . .
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- Simon, H. A. and Baumol, W. J. (1963, 1964) *Proceedings of a Symposium on Decision Theory* . . .
- Chase, W. G. and Simon, H. A. (1971) *Perception in Chess* . . .





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- Simon, H. A. (1974b) How big is a chunk? . . .
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- Rosenberg, S. T. and Simon, H. A. (1977) Modeling semantic memory . . .
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- (ed.) (1979b, 1989?) *Models of Thought* . . .
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- (1983b) Discovery, invention, and development . . .
- (1983d) *Reason in Human Affairs* . . .
- Published simultaneously in London by Blackwell. Translated into Japanese (Simon 1984b, 1987b), Italian (Simon 1984d), Spanish (Simon 1989b), Portuguese (Simon 1989c), Chinese (Simon 1989d), and German (Simon 1993b).
- Ericsson, K. A. and Simon, H. A. (1984) *Protocol Analysis* . . .
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- Greeno, J. G. and Simon, H. A. (1984) *Problem Solving and Reasoning* . . .
- Simon, H. A. (1985e) Spurious correlation . . .
- Demilly, A., Le Moigne, J. L. and Simon, H. A. (1986) *Sciences de l'Intelligence, Sciences de l'Artificiel* . . .
- Simon, H. A. (1987d) *The Scientist as Problem Solver* . . .
- Zhu, X. and Simon, H. A. (1987) *Learning Mathematics from Examples and by Doing* . . .
- Simon, H. A., Olivetti Belardinelli, M. and Rossi-Arnaud, C. (1993) *Adaptive Strategies in Thought Processes* . . .
- Simon, H. A. (1994) The bottleneck of attention . . .
- See Spaulding (1994).
- Gobet, F. and Simon, H. A. (1996) Recall of random and distorted chess positions . . .
- Zhu, X., Lee, Y., Simon, H. A. and Zhu, D. (1996) Cue recognition and cue elaboration in learning from examples . . .
- Anderson, J. R., Reder, L. M. and Simon, H. A. (1996a) Situated learning and education . . .
- (1996b) ‘Rejoinder: situative versus cognitive perspectives’ . . .
- Sarasvathy, D. K., Simon, H. A. and Lave, L. (1998) Perceiving and managing business risks . . .
- Fernandes, R. and Simon, H. A. (1999) A study of how individuals solve complex and ill-structured problems . . .

Computer science and mathematics

- Newell, A. and Simon, H. A. (1954) Current developments in complex information processing . . .
- See Rand Corporation (1954–1960).





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- (1954b) *Spurious Correlation a Causal Interpretation* . . .
Republished as Simon (1954c) and also in Blalock (1972a, pp. 5–17).
- Newell, A. and Simon, H. A. (1956) *The Logic Theory Machine* . . .
This paper is on the computer program called *The Logic Theorist*. Mathematician John McCarthy, later used the phrase artificial intelligence for a short study of computers. Among the study participants were Newell, Simon, and McCarthy. The following year, Newell and Simon produced the *General Problem Solver*, a computer program that could solve the kinds of logic puzzles you find in newspaper puzzle columns and in the puzzle magazines sold at airports and railway stations.
- Newell, A., Shaw, J. C. and Simon, H. A. (1957b) *Empirical Explorations of the Logic Theory Machine* . . .
- Feigenbaum, E. A. and Simon, H. A. (1961a) *Performance of a Reading Task* . . .
— (1961b) *A Theory of the Serial Position Effect* . . .
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- Newell, A. and Simon, H. A. (1961a) *Computer Simulation of Human Thinking and Problem Solving* . . .
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- Simon, H. A. and Newell, A. (1964) *Information Processing in Computer and Man* . . .
- Newell, A., Perlis, A. J. and Simon, H. A. (1967) *Computer science* . . .
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Available in paperback (Simon 1970). Translated into Japanese (Simon 1969a, 1977), Spanish (Simon 1973b) and French (Simon 1974c). A second edition was published in 1981. Translated into Portuguese (Simon 1981a), Chinese (Simon 1985b; 1987d; 1988b), Japanese (Simon 1987f), Italian (Simon 1988d), German (Simon 1990a) and French (Simon 1991c). A third edition was published in 1996. Translated into Greek (Simon 1999b) and Japanese (Simon 1999e). According to the online bibliography there is also a Korean translation of the second and third edition.
- Simon, H. A. and Siklóssy, L. (eds) (1972) *Representation and Meaning* . . .
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— (1973f) *The structure of ill structured problems* . . .
- Simon, H. A. and Gilmartin, K. J. (1973) *A simulation of memory for chess positions* . . .
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- Kadane, J. B. and Simon, H. A. (1975) *Optimal Detection Search* . . .
See also Kadane and Simon (1977, 1983).
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See also Iwasaki and Simon (1986).
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Bhandari, I. S., Simon, H. A. and Siewiorek, D. P. (1987) *Optimal Diagnosis for Causal Chains* . . .
Richman, H. B. and Simon, H. A. (1988) *Context Effects in Letter Perception* . . .
Simon, H. A. (1988c) *Prediction and Prescription in Systems Modeling* . . .
Simon, H. A. and Kaplan, C. A. (1988) *Foundations of Cognitive Science* . . .
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Chandrasekaran, B. and Simon, H. A. (1994) *Reasoning with Diagrammatic Representations* . . .
Gobet, F. and Simon, H. A. (2000) Five seconds or sixty? . . .
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Philosophy of science

- Simon, H. A. (1954a) The axiomatization of classical mechanics . . .
Simon, H. A. and Rescher, N. (1966) Cause and counterfactual . . .
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— (1969b, 1972) *The Sciences of the Artificial* . . .
See note under Simon (1969b, 1972), above in section on Computer science and mathematics.
— (1970a) The axiomatization of physical theories . . .
— (1973a) Does scientific discovery have a logic? . . .
— (1977a) *Models of Discovery* . . .
Originally published as *Boston Studies in Philosophy of Science* vol. LIV; Synthese Library vol. 114
— (1983c) Fitness requirements for scientific theories . . .
— (1985d) Quantification of theoretical terms and the falsifiability of theories . . .
Kulkarni, D. and Simon, H. A. (1986) *The Processes of Scientific Discovery* . . .
Simon, H. A. (1987e) *The Scientist as Problem Solver* . . .
Shen, W.-M. and Simon, H. A. (1993) Fitness requirements for scientific theories . . .
Simon, H. A. (1999d) Remarks on the methodology of science: discovery and verification . . .

Philosophy of social science

- Simon, H. A. (1952b) 'On the definition of the causal relation'
Ando, A., Fisher, F. M. and Simon, H. A. (1963) *Essays on the Structure of Social Science Models* . . .
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Other

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- Irvine, T. F., Stein, R. P. and Simon, H. A. (1964) *The Influence of Radiation on Convection in a Flat Duct* . . .
- Simon, D. P. and Simon, H. A. (1972) *Alternative Uses of Phonemic Information in Spelling* . . .
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- (1976d) *Impact of High Rise Buildings on the Urban System* . . .
- (1976e) *Social and Behavioral Science Programs in the National Science Foundation* . . .
- (1985c) Human nature in politics . . .
- Rusten *et al.* (1987) *Crisis Management in the Nuclear Age* . . .
- Simon, H. A. (1987a) *Charles E. Merriam and the 'Chicago School' of Political Science* . . .
- (1988a) Freedom and discipline . . .
- (1995) Literary criticism: a cognitive approach . . .
- Simon, H. A. and Kaplan, C. A. (1988) *Foundations of Cognitive Science* . . .

Simon contemporaries and their views of Simon's ideas

Many people have become associated with Simon. I will list some of these people and provide brief information trails to follow for information on each. The bibliographic subsections will cite items about various subjects involved in published discussions with Simon or work with Simon.

Contemporaries

Allen Newell and J. Clifford Shaw worked with Simon under the Rand Corporation, information on this work can be accessed from the Rand website www.rand.org. Biographical information for Allen Newell is available at http://www.sis.pitt.edu/~mbsclass/hall_of_fame/newell.html and <http://stills.nap.edu/readingroom/books/biomems/anewell.html>, with portrait. A bibliography for Newell is available at <http://www.informatik.uni-trier.de/~ley/db/indices/a-tree/n/Newell:Allen.html>. The Allen Newell Collection (archive) is available through <http://diva.library.cmu.edu/Newell/>. Some information on J. Clifford Shaw is also available in the Newell archive. McCorduck (1979) also has information on many of Simon's contemporaries. A biography with a portrait for Richard M. Cyert is available at <http://www.hofest.org/>. Information is also available in Augier and March (2002). Similar information for James March is available at <http://www.stanford.edu/dept/soc/people/faculty/march/march.html> and in Pugh and Hickson (2000) and Augier (2004). Information on Edward A. Feigenbaum is available at http://www.thocp.net/biographies/feigenbaum_edward.htm and Yuji Ijiri is available at <http://fisher.osu.edu/acctmis/hall/members/ijiri/>. Information about David Hawkins can be viewed at





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<http://www.stanfordalumni.org/> and in Palevky (2000). Information about Clarence Eugene Ridley is available from International City Managers' Association (www.icma.org/).

The following section provides an indication of the publication which surround those of Simon in the fields in which Simon published. The section does not represent a full bibliography of publications which were influenced by Simon's work.

Public administration

- Wilson, W. (1887) *The study of administration* . . .
- Herring, E. P. (1936) *Public Administration and the Public Interest* . . .
Abridged version published in Shafritz and Hyde (1992).
- Gulick, L. H. (1937) *Notes on the theory of organization* . . .
Reprinted in Mosher (1981), Matteson and Ivancevich (1999) and Shafritz and Hyde (1992). See also Meier and Bohte (2000, 2003) for a discussion of Gulick's impact.
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