

The h Index for Management Information Systems

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The **h-index** is a citation index that attempts to measure both the productivity and impact of the published work of a scientist or scholar (<http://en.wikipedia.org/wiki/H-index>). The index was suggested by Jorge E. Hirsch, a physicist at UCSD, as a tool for determining theoretical physicists' relative quality (Hirsch, 2005). ***A scholar with an index of h has published h papers each of which has been cited by others at least h times.*** The h-index is intended to measure simultaneously the quality and sustainability of scientific output, as well as, to some extent, the diversity of scientific research. Since 2005, the h-index has been discussed and analyzed in major publications such as *PNAS* and *Nature* (Hirsch, 2005, 2007; Lehmann et al., 2006; Wendl, 2007) and adopted in many disciplines (e.g., physics, biology, computer science, information science, social sciences, economics, etc.).

The h-index can be manually determined using citation databases or using automatic web tools. Subscription-based databases such as Scopus and the Web of Science provide automated calculators. Each database or tool is likely to produce a different h for the same scholar because of different coverage. Google Scholar is widely used due to its availability and easy access. Google Scholar tends to have more citations (especially from conference publications) than Scopus and Web of Science, which cover mostly journal publications (<http://en.wikipedia.org/wiki/H-index>).

We provide here a partial list of Management Information System professors and researchers who each has an h index of 20 or higher according to Google Scholar. The original list of scholars that we considered includes: AIS LEO recipients, AIS Fellows, past ICIS conference and program chairs, recent ICIS track chairs, AEs of selected major MIS journals (MISQ, ISR, JMIS, MS, DSS, JAIS, TMIS), and highly ranked scholars from several recent MIS research productivity studies (e.g., CAIS 2007; EJIS 2007). Based on an initial list of about 400 senior scholars, a Java program was developed to automatically query Google Scholar and compute the h index for each scholar. Due to the difficulty with common names, selected results were manually checked to verify correctness. The results obtained from our analysis are similar to those generated from the popular and freely available Harzing's *Publish or Perish* application (<http://www.harzing.com/pop.htm>), which also accesses Google Scholar for its h index calculation.

Although there are many different yardsticks for majoring research productivity in MIS, we believe the h index is a metric that deserves attention due to its academic basis, simplicity, and wide acceptance in other major scientific disciplines. Several fields have included h index of productive scholars in their disciplines at selected web sites, e.g., "The h Index for Computer Science" at: <http://www.cs.ucla.edu/~palsberg/h-number.html>; "The h Index for Economists" at: <http://ideas.repec.org/top/top.person.hindex.html>. This "H Index for Management Information Systems" is a similar effort.

Any automated tool may invariably introduce errors, inconsistencies, or omissions. Please send comments, corrections, and new entries to Cathy Larson at the University of Arizona, cal@eller.arizona.edu. We will also provide an annual update based on our existing Java program and Google Scholar.

References:

- Jorge E. Hirsch (2005). "An index to quantify an individual's scientific research output." *PNAS* **102** (46): 16569–16572.
- Jorge E. Hirsch (2007). "Does the h-index have predictive power?" *PNAS* **104** (49): 19193–19198.
- Michael Wendl (2007). "H-index: however ranked, citations need context." *Nature* **449** (7161): 403.
- Sune Lehmann, Andrew D. Jackson, and Benny E. Lauthrup (2006). "Measures for measures." *Nature* **444** (7122): 1003–4.

H index	Name	H index	Name	H index	Name
55	Andrew B. Whinston	32	Lorin Hitt	24	Bernard Tan
54	Hsinchun Chen	31	Tridas Mukhopadhyay	24	P. Kannan
54	Izak Benbasat	31	Zahir Irani	24	Paul Pavlou
51	J Nunamaker	31	Enid Mumford	24	Amrit Tiwana
48	Thomas H. Davenport	30	Viswanath Venkatesh	24	M.S. Krishnan
48	Daniel Robey	30	Ron Weber	24	Robert Galliers
48	Ronald E. Rice	30	Henry C. Lucas, Jr.	24	Rajiv Sabherwal
47	Varun Grover	30	Colette Rolland	24	Sid Huff
47	Jonathan Grudin	29	Alok Gupta	23	Frank Land
47	Kenneth L. Kraemer	29	Stuart Madnick	23	James J. Jiang
46	Robert W. Zmud	29	Makoto Nagao	23	TP Liang
45	Kalle Lyytinen	29	George Wright	23	Alan Hevner
45	M. Lynne Markus	28	Kar Yam Tam	23	Jason Dedrick
44	Rob Kling	28	Suzanne Rivard	23	Ee Peng Lim
44	Sirkka Jarvenpaa	28	Joey George	23	Helmut Krcmar
43	William R. King	28	Peter Weill	23	Mary J. Culnan
43	Matthias Jarke	28	Richard Boland	23	Juhani Iivari
43	Detmar Straub	28	Yair Wand	23	Soon Ang
43	Alan R. Dennis	27	E. W. T. Ngai	23	J. Daniel Couger
42	N Venkatraman	27	Tosiyasu L. Kunii	22	Michael J. Earl
40	Wanda J. Orlikowski	27	Abraham Seidmann	22	Christian Wagner
40	Rudy Hirschheim	27	Keng Siau	22	Robert Davison
37	John Mingers	27	E. Burton Swanson	22	Balasubramaniam Ramesh
37	Joseph Valacich	27	Alexander Tuzhilin	22	Anitesh Barua
36	Robert J. Kauffman	27	Gordon B. Davis	22	Sudha Ram
36	Albert L. Lederer	27	Robert O. Briggs	22	Rahul Telang
36	Gary Klein	26	Mary Lacity	22	Eileen Trauth
35	Michael J. Shaw	26	Arun Rai	21	Ramesh Sharda
35	Clyde W. Holsapple	26	Richard O. Mason	21	Hemant Bhargava
35	Douglas Vogel	26	U. Varshney	21	Ronald M. Lee
34	Hugh J. Watson	26	Dorothy Leidner	21	G. Koehler
34	Thompson Teo	26	Sundeeep Sahay	21	Ram Gopal
33	Raghav Rao	26	Kwok Kee Wei	21	Ann Majchrzak
33	Blake Ives	25	John C. Henderson	21	Robert W. Blanning
33	Eric K. Clemons	25	Jane Webster	21	Chrisanthi Avgerou
33	Iris Vessey	25	Carol Saunders	20	Allen S. Lee
33	Sue Newell	25	Patrick Chau	20	James Thong
33	David Gefen	25	John F. Rockart	20	Benn R. Konsynski
32	Mark Keil	25	Veda C. Storey	20	Guy Gable
32	Vallabh Sambamurthy	25	Ephraim McLean	20	Elena Karahanna
32	Ritu Agarwal	24	Sandra Slaughter	20	Alain Pinsonneault
32	Maryam Alavi	24	John Leslie King		