

J. Christopher Westland

Professor

Curriculum Vitae

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Information & Decision Systems, University of Illinois @ Chicago
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Education

- **Ph.D.**, Computers & Information Systems, University of Michigan, 1987
- **MBA**, Accounting, Indiana University, 1973
- **BA**, Mathematics (Physics & Chemistry minors), Indiana University, 1971
- **Languages**: English, Mandarin Chinese

Certifications and Organizations

1. Certified Public Accountant (Illinois License 065.035982)
2. Illinois CPA Society
3. Beta Gamma Sigma (Business Honorary Society)
4. Mensa International; American Mensa

Career History

1. Professor, IDS, University of Illinois – Chicago, 2007-present
2. High-level Foreign Expert, P.R.China (under 1000-Talents Plan) Beihang University (Project 985 University, in Key Lab for Complex Decision making), 2012-2017
3. Adjunct Professor, XiDian University, Xian, P.R.China, 2017-2019
4. Adjunct Professor, Shanghai University, Shanghai, P.R.China, 2019
5. Adjunct Professor, University of Science and Technology of China, Hefei, P.R.China (C9 League University), 2013-2016
6. Adjunct Professor, Key Center for e-Health, Harbin Institute of Technology, Harbin, P.R.China (C9 League University), 2011-2013
7. Adjunct Professor, Key Lab of Financial Intelligence and Financial Engineering (FIFE) at SWUFE (Project 985), Chengdu, P.R.China, 2007-2008
8. Head, IDS, University of Illinois – Chicago, 2007-2010
9. Professor, Information and Systems Management (Adjunct Professor in 2008-9), HK University of Science & Technology, 1995-2007
10. Visiting Professor (on Sabbatical Leave from HKUST) Tsinghua University, Beijing, 2002-2003
11. Visiting Professor (on Sabbatical Leave from HKUST), Nanyang Technological University, Singapore, 2002
12. Associate Professor with Tenure, Information and Operations Management, Marshall School, University of Southern California, 1987-1996
13. Assistant Professor, Accounting, Eastern Michigan University, 1986-1987
14. PhD Student, Computers and Information Systems, University of Michigan, 1981-1987
15. Database Admin & Security Manager, Rockwell International, Electronic Operations, 1977-1981
16. IS Audit Manager, Republic Life, Dallas, 1976-1977
17. Accounts Payable / Payroll Manager, Federated Department Stores, Dallas, 1975-1976
18. Auditor, IS Consultant, Touche Ross, Chicago, 1973-1975

Editorial

1. Electronic Commerce Research (Editor-in-Chief, 2013-present)
2. Electronic Commerce Research and Applications (Editor, 2006-2014)
3. Information and Management (Associate Editor, 2011-present)
4. Management Science (1995-2002) , Associate Editor
5. Information Systems Research (1996-2000) , Associate Editor
6. Electronic Markets (2001-Present) , Associate Editor
7. Telecommunications Systems (2003-Present) , Associate Editor
8. International Journal of Online Marketing (2010 - present) , Associate Editor
9. International Journal of Electronic Commerce (1996-Present) , Associate Editor
10. Electronic Commerce Research Journal (2001-Present) , Associate Editor
11. Journal of End User Computing (1995-present) , Associate Editor
12. MIS Review (2009-Present) , Associate Editor
13. International Journal of Internet & Enterprise Management (2003-Present) , Associate Editor
14. International Journal of E-Entrepreneurship and Innovation (2011) , Associate Editor
15. International Review of Management (2004-present) , Associate Editor

Books and Software

1. Audit Analytics: Data Science for the Accounting Profession (in R. Genleman, et al. "Use R!" series), Springer 2020
2. Structural Equation Modeling: from paths to networks, Springer, 2nd edition (2019)
3. Global Innovation Management: A Strategic Approach (2nd ed.) London: Palgrave / Macmillan 2018.
4. Structural Equation Modeling: from paths to networks, Springer, 1st ed. (2016)
5. Financial Auditing with Information Technology, Creder Press, ISBN-13: 978-1490448732; ISBN-10:149044873X, 2015
6. Red Wired: China's Internet Revolution, London: Cyan (Marshall Cavendish), 2010 (with S. So); Kindle edition, 2012
7. Global Innovation Management: A Strategic Approach London: Palgrave / Macmillan 2008; Companion Websites at <http://www.palgrave.com/business/westland/>, Simplified Chinese translation by Chinese University of Science & Technology Press, Hefei, Anhui, China.
8. Financial Dynamics: A System for Valuing Technology Companies, New York: John Wiley & Sons, June 2003 with Financial Dynamics software (versions 1 and 2)
9. Valuing Technology: The New Science of Wealth in the Knowledge Economy, New York: John Wiley & Sons, 2002
10. Global Electronic Commerce: Theory and Case Studies (with Ted Clark) MIT Press, 2000, additional printings 2001-2; Chinese (simplified) from Fudan U. Press Shanghai August 2000; Chinese (full stroke) from Best Wise: Taipei, August 2000; republished by Universities Press (India) Limited for distribution in India, Bangladesh, Bhutan, Nepal, Sri Lanka, the Maldives, and Pakistan, paperback English, 2008
11. Information Technology Risk: A Guide for Accountants and Auditors, Hong Kong Society of Accountants monograph (HKICPA), 1996

Refereed Publications

1. Trade informativeness and liquidity in Bitcoin markets. Plos one, 16(8), e0255515. (2021)
2. Assessing Privacy and Security of Information Systems from Audit Data. Information Systems Frontiers, 1-18. (2021)
3. 20 years of Electronic Commerce Research. Electronic Commerce Research, 21(1), 1-40. (2021) (w/ Kumar, S., Lim, W. M., Pandey, N.)
4. When all Products are Digital: Complexity and Intangible Value in the Ecosystem of Digitizing Firms, Information Systems Research (forthcoming 2021) (w/ Pouya Rahmati, Ali Tafti and Cesar Hidalgo)
5. Microlending on mobile social credit platforms: an exploratory study using Philippine loan contracts. Electronic Commerce Research, 20(1), 173-196. (2020). (w/ Mou, J., Phan, T. Q., & Tan, T.)
6. Predicting credit card fraud with Sarbanes-Oxley assessments and Fama-French risk factors. Intelligent Systems in Accounting, Finance and Management, 27(2), 95-107. (2020).
7. The information content of Sarbanes-Oxley in predicting security breaches. Computers & Security. 2020 Mar 1;90:101687
8. Demand cycles and market segmentation in bicycle sharing. Information Processing & Management 56.4 (2019): 1592-1604 (with Jian Mou, and Dafei Yin)
9. A two-sided matching model in the context of B2B export cross-border e-commerce. Electronic Commerce Research 19.4 (2019): 841-861 (with Miao, Yumeng, et al.)
10. Introduction to the special issue: electronic commerce in China's Belt and Road Initiative. Electronic Commerce Research 19.4 (2019): 747-748.
11. Microlending on mobile social credit platforms: an exploratory study using Philippine loan contracts. Electronic Commerce Research (2019): 1-24 (with Mou, Jian, et al.)
12. Introduction to the special issue on Big Data in finance and business. Electronic Commerce Research 18.2 (2018): 201-201.
13. Convolutional Neural Network Deep-Learning Models for Prediction of Shared Bicycle Demand. International Conference on Applications and Techniques in Cyber Security and Intelligence. Springer, Cham, 2018 (with Jian Mou, and Dafei Yin)
14. Introduction to the special issue: electronic commerce in social networks. Electronic Commerce Research. 2020 Mar 7:1-
15. Methods to assess the value of new technologies: The case of consumer sentiment towards digital wallet technology." Data-Enabled Discovery and Applications 1.1 (2017): 2.
16. An empirical investigation of analytical procedures using mixture distributions, J Christopher Westland - Intelligent Systems in Accounting and Auditing, 2017
17. Co-Diffusion of Mobile Operator's OTT and SMS Messaging Services in Emerging Economies, Y Yu, JX Hao, M Zuo, S Shan, C Westland - 2016 - aisel.aisnet.org

18. Electronic Commerce Research in seven maps (Hsu, Chien-Lung, J. Christopher Westland, and Chun-Hao Chiang) *Electronic Commerce Research* 15.2 (2015): 147-158.
19. Substitutes, complements and network effects in instant messaging services (JC Westland, JX Hao, X Xiao, S Shan) *Networks and Spatial Economics* 16.2 (2016): 525-543.
20. The golden age of consumer research." *Electronic Commerce Research* 15.3 (2015): 297-299.
21. Convolutional Neural Network Deep-Learning Models for Prediction of Shared Bicycle Demand (Westland, J. Christopher, Jian Mou, and Dafei Yin. ") book chapter, *International Conference on Applications and Techniques in Cyber Security and Intelligence*. Springer, Cham, 2018.
22. Transaction risk management in China-US trade e-markets. (Westland, J. Christopher, and Ye Di) *Proceedings of the 14th Annual International Conference on Electronic Commerce*. ACM, 2012.
23. Introduction to the special issue on Big Data in finance and business." *Electronic Commerce Research* 18.2 (2018): 201-201.
24. Economics of eBay's buyer protection plan." *Financial Innovation* 1.1 (2015): 7.
25. The moderating role of income on consumers' preferences and usage for online and offline payment methods (See-To, Eric WK, Savvas Papagiannidis, and J. Christopher Westland.) *Electronic Commerce Research* 14.2 (2014): 189-213.
26. The adoption of social networking technologies in cinema releases." *Information Technology and Management* 13.3 (2012): 167-181.
27. Chinese E-Commerce Introduction (Westland, J. Christopher, Guoqing Chen, and Sulin Ba) (2013): 297-298.
28. The information content of financial survey response data." *Financial Innovation* 1.1 (2015): 10
29. Employing transaction aggregation strategy to detect credit card fraud, S Jha, M Guillen, JC Westland - *Expert systems with applications*, 2012 - Elsevier
30. A descriptive study of credit card fraud pattern (Jha, Sanjeev, and J. Christopher Westland.), *Global Business Review* 14.3 (2013): 373-384.
31. Employing Transaction Aggregation Strategy to Detect Credit Card Fraud Expert Systems With Applications, *Expert Systems With Applications*, ESWA-D-12-00805 forthcoming 2012 (w. Montserrat Guillen and Sanjeev Jha)
32. The Adoption of Social Networking Technologies in Cinema Releases; *Information Technology and Management*, <http://www.springerlink.com/content/g23qg84ru0p45122/> 2012
33. Affective Technologies in Survey Research; *Information Technology and Management*, <https://springerlink3.metapress.com/content/x52716m719127430/resource-secured/?target=fulltext.pdf&sid=jahv2wfekzeq2nn4hpdzifyx&sh=www.springerlink.com> 2012
34. Electrodermal Response in Gaming, *Journal of Computer Networks and Communications*, vol. 2011, Article ID 610645, 2011. doi:10.1155/2011/610645.
35. Lower Bounds on Sample Size in Structural Equation Modeling, *Electronic Commerce Research and Applications*, Dec 2010, PII:S1567-4223(10)00054-2, DOI: 10.1016/j.elerap.2010.07.003 (with software downloadable from Elsevier) in *Top Ten Most Downloaded papers on ECRA*
36. Divorce Insurance: Mitigating the Adjudication Period Financial Crisis, *Journal of Divorce & Remarriage*, 52:1-38, 2011, ISSN: 1050-2556 print/1540-4811 online, DOI: 10.1080/10502556.2011.585084 (lead article) *Data Mining for Credit Card Fraud*, *Decision Support Systems* (with Sid Battacharyya and Sanjeev Jha) 2010 DOI: 10.1016/j.dss.2010.08.008
37. Critical mass and willingness to pay for social networks, *Electronic Commerce Research and Applications*, Dec 2009 (lead article, with comment by Andrew Odlyzko)
38. Incentives for Mobile-Online Gaming with Competing Electronic Cash Services, *International Journal of Electronic Business* (with E.W.K. See-To), 2009
39. Short-run Price-Performance Dynamics in Microcomputer Technologies, *Research Policy* (with E.W.K. See-To) volume 36, Issue 5, Pages 591-806, June 2007
40. The IS Core-XII: Positive Research in Information Systems, in *Communications of the AIS*, 2004 in volume 14
41. Why is it so difficult to put a value on technology?, *The International Journal of Entrepreneurship Education (IJEE)*, v. 3 (2004)
42. The Cost Behavior of Software Defects, *Decision Support Systems*, Volume 37, Issue 2 , May 2004, Pages 229-238
43. What Electronic Commerce Can Learn from Securities Market Automation, in Tan, F. (ed.) *Advanced Topics in Global Information Management*, Idea Group, 2003 pp. 97-119
44. Preference ordering Cash, Near Cash and Electronic Cash, *Journal of Organizational Computing and Electronic Commerce*, 12(3), pp. 223-242, 2002
45. Transaction risk in electronic commerce, *Decision Support Systems*, (33)1 (2002) pp. 87
46. Electronic commerce and delays in market matching, *Journal of Organizational Computing and Electronic Commerce*, Volume 12 Number 2, Jun 2002 , 121-132

47. Systems Complexity and the Cost of Errors in Software Development, *Journal of Systems and Software*, Volume 62, Issue 1, 1 May 2002, p. 1-10 (lead article)
48. Electronic Delivery of Convenience: A Service Innovation at the 7-Eleven Retail Chain in Hong Kong, *Journal of Information Technology Cases and Applications (JITCA)*, 2002 (with Lange, Karl)
49. Electronic commerce and delays in market matching, *Journal of Organizational Computing and Electronic Commerce*, 2001
50. Ten Lessons that Electronic Commerce Can Learn from the Automation of Securities Exchanges, *Journal of Global Information Management*, Jan-Mar 2000
51. Privatization of Electrical Networks in Chile: A Case Study to Serve as a Model for Information Networks of Today *Journal of Information Technology Cases and Applications (JITCA)*, v. 2 (3) 2000
52. Modeling the Incidence of Post-Release Errors in Software, *Information Systems Research*, September 2000
53. Customer and Merchant Acceptance of Electronic Cash: Evidence from Mondex in Hong Kong, *International Journal of Electronic Commerce*, v 2(4) Summer, 1998, 5-26
54. Impacts of Electronic Marketplaces on Product Prices: An Empirical Study of the AUCNET Case, *International Journal of Electronic Commerce*, Volume 4 ,Issue 2 December 1999 Pages: 45 - 60 (with H.G. Lee and S. Hong)
55. Some Conditions for Cost Efficiency in Hypermedia, *Information Processing and Management*, v.34(2/3), 1998, 309-323
56. A Comparison of Shopping Experiences in Three Competing Digital Retailing Interfaces (w/ Grace Au), *International Journal of Electronic Commerce*, 1998
57. The Moscow Stock Exchange and The Shanghai Stock Exchange: Electronic Markets for Voucher Driven and State Managed Privatization of State Owned Enterprises, in *Business Information Technology Management: Closing the International Divide*, P. Banerjee, R. Hackney, G. Dhillon and R. Jain (eds.), Haranand , 1998
58. Electronic Cash in Hong Kong Electronic Markets v.7(2), p. 3 (with M. Kwok, J. Shu, T. Kwok and H, Ho)
59. Automation of China's Securities Markets (1997) *Electronic Markets* v.7(2), p. 3 (with 23. S.M. So)
60. A Rational Choice Model of Computer Network Security, *Journal of Electronic Commerce*, v.1(2), Winter 1996-97
61. The COCOMO 2.0 Software Cost Estimation Model, *American Programmer*, Cutter Information Corp., July 1996, and reprinted in *Software Management*, Fifth Edition, IEEE Computer Society Press, Washington D.C., 1996(with B.Boehm, B. Clark, E. Horowitz, R. Madachy and R. Selby), 1996
62. Cost Models for Future Software Life Cycle Processes: COCOMO 2.0, *Annals of Software Engineering*, Vol. 1, Software Process and Product Measurement, J.D. Arthur and S.M. Henry (eds.), J.C. Baltzer AG, Science Publishers, Amsterdam, The Netherlands, 1995, pp. 57-94 (with B. Boehm, B. Clark, E. Horowitz, R. Madachy and R. Selby)
63. Bayesian Alternatives to Neural Computing, *IEEE Transactions on Systems, Man and Cybernetics*, November 1994
64. Reporting Strategies for 'Events' Accounting, *Journal of Information Systems*, Fall 1994
65. Business Process Reengineering at Pacific Bell, *Planning Review*, May/June, 28-33(with Housel, Thomas and Christopher Morris)
66. Congestion and Network Externalities in the Short Run Pricing of Information Systems Services, *Management Science*, v. 38(6) July 1992, 992-1099
67. CASE as Negotiation: Goals for Systems Design and Management of Group Learning in an Automated Systems Design Process, *Sistemica*, v.1(2), 131-143 (English version) 145159 (Spanish version)
68. Cinema Theory, Video Games, and Multimedia Production, in *Multimedia Computing: Preparing for the 21Century*, Reisman (ed.), Middletown, PA: Idea Group Publishing, December 1995
69. The Marginal Analysis of Investments in Information Technology, in *Strategic and Economic Impacts of Information Technology Investment: Perspectives on Organizational Growth and Competitive Advantage*, Mahmood, Banker and Kauffman (eds.), Middletown, PA: Idea Group Publishing, September, 55-81
70. Economics and Global Information Technology Education, in *Global Information Technology Education: Issues and Trends*, Lock (ed.), Middletown, PA: Idea Group Publishing, 419-450
71. CASE in Business and Administrative Information Systems, in *Computer-Aided Software Engineering: Issues and Trends for the 1990s and Beyond*, Bergin (ed.),Middletown, PA: Idea Group Publishing, 401-427
72. Allocated Cost Schedules to Control Equipment Usage 'Bottlenecks', in *Tools and Techniques of Cost Estimating and Analysis*, W.R.Greer (ed.), New York: Springer-Verlag, 65-81
73. Economic Incentives for Database Normalization, *Information Processing and Management*, v. 28 (5), 647-662
74. Problem Vectorizability and the Market for Vector Supercomputing, *Information Processing and Management*, v. 27(5), 499-515
75. Collaboration and Productivity in Information Systems Research, *The Information Society* v.7(1), 33-50
76. Self-Organizing Executive Information Networks, *Decision Support Systems*, v.8, 41-53
77. Scaling Up Output Volumes Predicted by Information Systems Prototypes, *Association for Computing Machinery/TODS*, v. 15(3), 341-358

78. Assessing the Economic Benefits of Information Systems Auditing, *Information Systems Research*, v.1(3), September 1990, 309-24
79. Economic Constraints in Hypertext, *Journal of the American Society for Information Science*, v. 42(3),178-184
80. Topic Specific Market Concentration in the Information Services Industry: Evidence from the DIALOG Group of Databases, *The Information Society*, v. 6, 127-138
81. Parallel Renaissance in Neural Networks: A Bayesian Approach to Neural Learning, *Behavioral and Brain Science*, v.12, 1989,160 (with Manfred Kochen)
82. A Net Benefits Approach to Measuring Retrieval Performance, *Information Processing and Management*, v.25(5), 579-581

Computer Languages

R, Keras, Tensorflow, Python, Fortran, SAS, SPSS, Mathematica, HTML, C#, C++, C, VB

Executive Education

1. Vietnam EMBA, Hanoi and HCMC, Vietnam
2. American University of North Africa, Tunis, Tunisia
3. New York Institute of Finance, Valuation of Technology Ventures
4. Kellogg-HKUST, Information Technology Strategy
5. CIEBS, Information Technology Strategy
6. Tsinghua, Information Technology Strategy
7. USC, Information Technology Strategy

Teaching Case Studies

1. Electronic Delivery of Convenience: A Service Innovation at the 7-Eleven Retail Chain in Hong Kong, 2002 (with Lange, Karl)
2. Privatization of Electrical Networks in Chile: A Case Study to Serve as a Model for Information Networks of Today, 2000
3. The Moscow Stock Exchange, 1997
4. The Shanghai Stock Exchange, 1997 China's Brokerage Rooms, 1997
5. Electronic Securities Trading at the Bolsa de Comercio de Santiago, 1994
6. Chilgener: Pricing of Network Services, 1994
7. Philippines Telephone & Telegraph, 1994
8. Information Systems Security at McDonnell Douglas Aerospace Information Systems, February 1993 and videotape by same title, 1993

Consulting (selected projects)

1. Research Corporation of University of Hawaii (Innovation strategy)
2. Audit & Assurance Services Committee
3. Board of Directors, MIT e-Business Center, Boston, MA, USA
4. Business Week Board of Advisors (Asia, Finance)
5. Forensis (expert testimony in numerous ongoing cases)
6. Rosenfeld Hafron Shapiro & Farmer LLP (Forensic Accounting)
7. The Emerging Markets Risk Advisory (technology risk modeling)
8. External Examiner for MBA programs at Hong Kong University
9. Borland (IS Governance)
10. Singapore Manufacturers Association (technology valuation)
11. Microsoft (Redmond WA; Dublin, Ireland; valuing technology / software cost modeling)
12. Aerospace Corporation (software cost modeling)
13. V-Tech (software business modeling and industrial design)
14. Intel (Rosettanet)
15. Motorola (mobile Internet markets)
16. IBM (electronic commerce)
17. Pacific Bell (software cost modeling and workflow)

Selected Trade Publications

1. Valuing Tech, Benchmark, October 2003, Vol. 1, No. 10, p. 34-40
2. The Internet's Challenge to Accounting, *The Hong Kong Management Accountants*, Fall
3. Cyberport is the wrong way to promote E-commerce, *The Hong Kong Economic Journal*, Mar 29, 1999
4. Cyber Wet-Markets: an idea whose time has come?, *The Hong Kong Economic Journal*, May 3, 1999 Knowledge
5. Workers and Hong Kong's E-commerce Infrastructure, *The Hong Kong Management Accountants*, Spring 1999
6. E-Commerce Primer, *Computer Careers Magazine*, 1997
7. E-Commerce Success Secrets, *Computer Careers Magazine*, 1997

8. The Office Suites, Computer Careers Magazine, 1997
9. Internet Investing, Computer Careers Magazine, 1997
10. Taguchi Methods in Software Engineering, USC Computer Science Technical Report
11. Competing in the World's Computer Market, Scientific American, November 1990
12. Short Circuiting Computers, New York Times, October 30 1990
13. Tinbergen Lectures on Organization Theory, Interfaces, v. 19(6), November-December

Ph.D. Students

1. Poornima Krishnan (graduated 2010)
2. Sanjeev Jha (graduated 2009), University of New Hampshire
3. Kirill Yurov (graduated 2009), Nova University
4. Carsten Paasch (graduated 2008) Senior VP - Information Security, Standard Chartered Bank
5. Wendy Hui, (graduated 2005), Nottingham University
6. Eric See-to (graduated 2005).Research Fellow. University of Lancaster Business School, U.K.
7. Hilton Chan, (graduated 2000), Hong Kong Police, Head of Special Investigations
8. Eric Law, (graduated 1999) CEO, Boncle, Inc. (secure internet platforms) Santa Clara, CA