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Design of a Methodology to Support Software Release Decisions

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Document Version

Publisher's PDF, also known as Version of record

Publication date:

2006

[Link to publication in University of Groningen/UMCG research database](#)

Citation for published version (APA):

Sassenburg, J. A. (2006). *Design of a Methodology to Support Software Release Decisions: Do the Numbers Really Matter?*. s.n.

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REFERENCES

- Abdel-Ghally, P.Y., *et al.*, "Evaluation of Competing Software Reliability Predictions", IEEE Transactions on Software Engineering, Vol. 12 (9), 1986.
- Abrahamsson, P., *et al.*, "Agile software development methods: Review and analysis", VTT Electronics, 2002.
- Abran, A., Nguyenkim, H., "Analysis of Maintenance Work Categories Through Measurement", Proceedings of the Conference on Software Maintenance, pp.104-113, Sorrento (Italy), 1991.
- Abran, A., *et al.*, "Field studies using functional size measurement in building estimation models for software maintenance", Journal of Software Maintenance and Evolution: Research and Practice, Vol. 14, pp.31-64, 2002.
- Ahn Y., *et al.*, "The software maintenance project effort estimation model based on function points", Journal of Software Maintenance and Evolution: Research and Practice, Vol. 5 (2), pp.71-85, 2003.
- Allison, G.T., "Essence of decision: explaining the Cuban missile Crisis", Harper Collins Publishers, 1971.
- Anderson, D.F., "Mathematical Models and Decision Making in Bureaucracies: A Case Story Told from Three Points of View", PhD dissertation, MIT, 1977.
- Anthony, R.N., "The Trouble with Profit Maximization", in "The Nature and Scope of Management", Wadio, M.S., (Ed.), pp.272-273, Chicago: Scott, Foresman, 1966.
- Argyris, C., "Personality and Organization", New York: Harper Collins, 1957.
- Argyris, C., "Integrating the Individual and the Organization", New York: Wiley, 1964.
- Argyris, C., Schön, D., "Theory in practice: Increasing professional effectiveness", San Francisco: Jossey-Bass, 1974.
- Argyris, C., Schön, D., "Organizational learning: A theory of action perspective", Reading, Mass: Addison Wesley, 1978.
- Arora, A., *et al.*, "Sell First, Fix Later: Impact of Patching on Software Quality", working paper 2003-16, H. John Heinz III School of Public Policy and Management, Carnegie Mellon University, 2003.
- Asseldonk, W. van, "Predictability in Consumer Products", B&C Conference "Making Software Work", September 2004.
- Asundi, J., *et al.*, "An Architectural Approach to Software Cost Modeling", Second International Workshop on Economics-driven Software Engineering Research, Limerick, (Ireland), 2000.
- Asundi, J., Kazman, R., "A Foundation for the Economic Analysis of Software Architectures", Third International Workshop on Economics-driven Software Engineering Research, Toronto (Canada), 2001.
- Bach, J., "Good Enough Quality: Beyond the Buzzword", IEEE Computer (August), 1997.
- Balasubramanian, P., *et al.*, "Managing information technology investments using a real-options approach", Journal of Strategic Information Systems, Vol. 9, pp.39-62, 2000.
- Bana e Costa, C.A., Vansnick, J.C., "MACBETH – an interactive path towards the construction of cardinal value functions", International transactions in operational research, Vol. 1 (4), pp.489-500, 1994.
- Baron, J., "Thinking and deciding", New York: Cambridge University Press, 2000.
- Bassin, K., *et al.*, "Metrics to Evaluate Vendor Developed Software Based on Test Case Execution Results", IBM Systems Journal, Vol. 41 (1), pp.13-30, 2002.
- Bates, H., *et al.*, "Motor Vehicle Recalls: Trends, Patterns, and Emerging Issues", ESRC Centre for Business Research, University of Cambridge, working paper no. 295, 2004.
- Bays, M.E., "Software Release Methodology", Prentice-Hall, 1999.
- Beck, K., "Extreme Programming explained: Embrace Change", Addison-Wesley, 2000.
- Bedell, E.F., "The Computer Solution: Strategies for Success in the Information Age", Homewood, Dow Jones Irwin, 1985.
- Beizer, B., "Software testing techniques", Van Nostrand Reinhold, New York, 1990.

- Beizer, B., *“Black Box Testing”*, John Wiley & Sons, 1995.
- Bell, J., *“Doing Your Research Project: A Guide for First-Time Researchers in Education and Social Science”*, Open University Press, Milton Keynes, 1993.
- Ben Zur, H., Breznitz, S.J., *“The Effect of Time Pressure on Risky Choice Behavior”*, Acta Psychologica, Vol. 47, pp.89-104, 1981.
- Benaroch, M., Kaufmann, R.J., *“A Case for Using Real Options Pricing Analysis to Evaluate Information Technology Project Investments”*, Information Systems Research, Vol. 10 (1), pp.70-86, 1999.
- Benaroch, M., *“Managing Information Technology Investment Risk: A Real Options Perspective”*, Journal of Management Information Systems, 2002.
- Benbasat, I., et al., *“The Case research Strategy in Studies of Information Systems”*, MIS Quarterly, September, pp.367-386, 1987.
- Berghout, E.W., Meertens, F.J.J., *“Investeringsportfolio voor het beoordelen van voorstellen voor informatiesystemen”*, Informatie, pp.677-691 (in Dutch), 1992.
- Berghout, E.W., *“Evaluation of information system proposals: design of a decision support method”*, doctoral dissertation, Delft University of Technology, 1997.
- Berghout, E.W., Nijland, M., *“Full life-cycle management and the IT Management paradox”*, in *“Make or Break Issues in IT Management”*, Remeny, D., Brown, A., (Eds.), Butterworth-Heinemann, 2001.
- Berghout, E.W., *“IT Economics Research Program”*, Report, Business & ICT Section, Faculty of Economics, University of Groningen, 2002.
- Beroggi, G.E.G., *“Decision Modelling in Policy Management”*, Kluwer Academic Publishers, 1999.
- Binder, R.V., *“Can a Manufacturing Quality Model Work for Software?”*, IEEE Software, Vol. 14, 1997.
- Birsch, D., Fielder, J.H., *“The Ford Pinto case: A study in applied ethics, business and technology”*, Albany, New York, Atate University of New York Press, 1994.
- Boehm, B.W., et al., *“Characteristics of Software Quality”*, TRW Series of Software Technology, Amsterdam, North Holland, 1978.
- Boehm, B.W., *“Software Engineering Economics”*, Prentice-Hall, 1981.
- Boehm, B.W., *“Improving Software Productivity”*, IEEE Computer, Vol. 20 (8), pp.43-58, 1987.
- Boehm, B.W., et al., *“The MBASE Life Cycle Architecture Milestone Package”*, Working International Conference on Software Architecture, 1999.
- Boehm, B.W., Abts, C., *“Software Development Cost Estimation Approaches - A Survey”*, Technical Report UCSCSE-2000-505, University of Southern California, 2000.
- Boehm, B.W., Sullivan, K.J., *“Software Economics: A Roadmap”*, ACM Press, 2000.
- Boehm, B.W., et al., *“Software Cost Estimation with COCOMO II”*, Prentice-Hall, 2001.
- Boehm, B.W., Basili, V.R., *“Software Defect Reduction Top-10 List”*, IEEE Computer, Vol. 34 (1), pp.135-137, 2001.
- Bogdan, R.C., Biklen, S.K., *“Qualitative research in education: An introduction to theory and methods”*, Needham Heights, MA: Allyn & Bacon, 1998.
- Boland, P.J., Singh, H., *“Determining the Optimal Release Time for Software in the Geometric Poisson Reliability Model”*, International Journal of Reliability, Quality and Safety Engineering, Vol. 9 (3), pp.201-213, 2002.
- Boskma, A.F., Herweyer, M., *“Beleidseffectiviteit en case studies: een vergelijking van verschillende onderzoeksonderwerpen”*, Beleidswetenschap, No. 1, pp.52-69 (in Dutch), 1988.
- Bourgue, P., et al., *“Lack of Consensus on Measurement in Software Engineering: Investigation of Related Issues”*, IWSM/MetriKon, 2004.
- Brassard, M., Ritter, D., *“Sailing Through Six Sigma”*, Brassard & Ritter, LLC, 2002.
- Braybrooke, D., Lindblom, C.E., *“A Strategy of Decision: Policy Evaluation as a Social Process”*, New York: Free Press, 1970.
- Brealey, R.A., Myers, S.C., *“Principles of Corporate Finance”*, McGraw-Hill, 1991.
- Brettschneider, R., *“Is your software ready for release?”*, IEEE Software, pp.100-108, 1989.

- Briand, L.C., Wieczorek, I., "Resource Estimation in Software Engineering", International Software Engineering Research Network, Technical report ISERN 00-05, 2000.
- British Standards Institute, "Software Component Testing", BS7925-2, British Standard Institute, 1998.
- Brooks, F.R., "The Mythical Man Month", Addison-Wesley, 1975.
- Brown, B., et al., "The delphi method II: Structure of experiments", The Rand Corporation, RM-5957-PR, 1969.
- Brown, R.V., et al., "Decision analysis for the manager", New York: Holt, Rinehart and Winston, 1974.
- Browning, T., "Modeling and Analyzing Cost, Schedule and Performance in Complex System Product Development", PhD thesis, Massachusetts Institute of Technology, 1998.
- Broy, M., "Challenges in Automotive Software Engineering: From Demands to Solutions", EmSys Summer School at the University of Salzburg, June 30 - July 2, 2003.
- Broy, M., "Model Driven, Architecture Centric Development of (Automotive) Embedded Software Systems Modeling Theories and Architectural Milestones", 9th IEEE International Conference on Engineering of Complex Computer Systems, 2004.
- Bryman, A., "Social Research Methods", Oxford University Press, 2001.
- Buchanan, J., "Information Overload: A Decision Making Perspective", MCDM Conference, Ankara, 2000.
- Burke, W.W., "Diagnostic models for organizational development", in "Diagnosis for organizational change: Methods and models", Howard, A., (Ed.), pp.53-84, New York: Guilford Press, 1994.
- Burnstein, I., et al., "Developing a Testing Maturity Model: Part 1", Crosstalk (August), 1996a.
- Burnstein, I., et al., "Developing a Testing Maturity Model: Part 2", Crosstalk (September), 1996b.
- Butcher, M., et al., "Improving software testing via ODC: Three case studies", IBM Systems Journal, Vol. 41 (1), 2002.
- Butler, C., "Getting value from information technology", Research Report 75, London (UK), 1990.
- Carchia, M., "Profits and Business Models", Carnegie Mellon University, 18-849b Dependable Embedded Systems, (Spring), 1999.
- Card, D.N., Comer, E., "Why Do So Many Reuse Programs Fail", IEEE Software (September), pp.114-115, 1994.
- Card, D.N., "Is Timing Really Everything?", Guest Editors Introduction, IEEE Software Magazine, Vol. 12 (5), pp.19-22, 1995.
- Carey, J.W., et al., "Intercoder Agreement in Analysis of Responses to Open-Ended Interview Questions: Examples from Tuberculosis Research", Cultural Anthropology Methods, Vol. 8 (3), pp.1-5, 1996.
- Carr, N.G., "IT doesn't matter", Harvard Business Review (May), 2003.
- Center for Devices and Radiological Health 2002, "General Principles of Software Validation: Final Guidance for Industry and FDA Staff", U.S. Department of Health and Human Services, Food and Drug Administration, 2002.
- Charles, C.M., "Introduction to educational research", San Diego, Longman, 1995.
- Chen, S.J., Hwang, C.L., "Fuzzy Multiple Attribute Decision Making: Methods and Applications", Lecture Notes in Economics and Mathematical Systems, No. 375, 1992.
- Chillarege, R., et al., "Orthogonal Defect Classification - A Concept for In-Process Measurements", IEEE Transactions on Software Engineering, Vol.18 (11), 1992.
- Chrissies, M.B., et al., "CMMI[®]: Guidelines for Process Integration and Product Improvement", Addison-Wesley, 2004.
- Chulani, S., "COQUALMO (COnstructive QUALity MOdel): A Software Defect Density Prediction Model", in "Project Control for Software Quality", Kusters et al., (Eds.), Shaker Publishing, 1999.
- Clarke, C.J., Varma, S., "Strategic Risk Management: the New Competitive Edge", Long Range Planning, Vol. 32 (4), pp.414-424, 1999.

- Clarkson, G.P.E., Tuggle, F.D., "Toward a Theory of Group Decision Behavior", Behavioral Science, pp.33-42, 1966.
- Cohen, M.D., Bacdayan, P., "Organizational Routines are Stored as Procedural Memory: Evidence from a Laboratory Study", Organization Science, Vol. 5 (4), pp.554-568, 1994.
- Coleman, D., et al., "The Application of Software Maintainability Models on Industrial Software Systems", University of Idaho, Software Engineering Test Lab, Report No. 93-03 TR, 1993.
- Cook, C., Visconti, M., "New and improved documentation process model", Proceedings of the 14th Pacific Northwest Software Quality Conference, Portland, pp.364-380, 1996.
- Cottrell, T., "Real Options and Competitive Dynamics in Software Product Release", Proceedings of 5th Annual Conference on Real Options Theory Meets Practice, 2000.
- Crosby, P., "Quality is Free", McGraw-Hill, 1979.
- Cyert, R.M., March, J.G., "A Behavioral Theory of the Firm", Englewood Cliffs New York: Prentice-Hall, 1963.
- Daft, R.L., "Organization theory and design", West. Publ. Comp., St. Paul USA, 1986.
- Davidson, P., "Post Keynesian Macroeconomic Theory", Aldershot: Edward Elgar, 1994.
- De Lucia, A., et al., "Early effort estimation of massive maintenance processes", Proceedings of the IEEE International Conference on Software Maintenance, pp.451-458, IEEE Computer Society, 2002.
- DeLong, J.B., Froomkin, A.M., "Speculative Microeconomics for Tomorrow's Economy", in "Internet Publishing and Beyond: The Economics of Digital Information and Intellectual Property", Kahin, B., Varian, H., (Eds.), Cambridge: M.I.T. Press: 0262611597, pp.6-44, 2000.
- Delbecq, A.L., "The Management of Decision-Making Within the Firm: Three Strategies for Three Types of Decision-Making", Academy of Management Journal, pp.329-339, 1967.
- Deming, W.E., "Out of the Crisis", Cambridge University Press, 1982.
- DeSimone, M., R.Kazman, R., "Using SAAM: An Experience Report" Proceedings of CASCOM '95, Toronto (Canada), pp.251-261, 1995.
- Dijksterhuis, A., "Think different: The role of unconscious and conscious processes in attitude formation and decision making", 5th Heidelberg Meeting on Judgment and Decision Processes "Intuition in Judgment and Decision Making", Febr. 19-22, 2004
- Dixit, A.K., et al., "The Options Approach to Capital Investment", Harvard Business Review, May-June, pp.105-115, 1994.
- Dixit, A.K., Pindyck, R.S., "Investment under Uncertainty", Princeton University Press, Princeton, New Jersey, 1994.
- Dobbins, H.D., "The cost of software quality", in "Handbook of Software Quality Assurance", third edition, Schulmeyer, G.G., McManus, J.I., (Eds.), Upper Slade River, N.J.: Prentice-Hall, 1999.
- Dobrica, L., Niemelä, E., "A Survey On Architecture Analysis Methods", IEEE Transactions on Software Engineering, Vol. 28 (7), 2002.
- Dodgson, M., "Organizational learning: A review of some literatures", Organization Studies, Vol. 14 (3), pp.375-394, 1993.
- Dohi, T., et al., "Software release games", Journal of Optimization Theory and Applications, Vol. 105 (2), pp.325-346, 2000.
- Dooley, R.S., Fryxell, G.E., "Attaining decision quality and commitment from dissent: The moderating effects of loyalty and competence in strategic decision-making teams", Academy of Management Journal, Vol. 42 (4), pp.389-402, 1999.
- Dörner, D., "The Logic of Failure", Metropolitan Books, New York, 1996.
- Dorofee, A.J, et al., "Continuous Risk Management Guidebook", Carnegie Mellon University, Software Engineering Institute, 1996.
- Dromey, R.G., "Cornering the Chimera", IEEE Software, Vol. 13 (1), pp.33-43, 1996.
- Dröschel, W., Wiemers, M., "Das V-Modell 97. Der Standard für die Entwicklung von IT-Systemen mit Anleitung für den Praxiseinsatz", Oldenbourg Verlag (in German), 2000.
- Drucker, P., "The Effective Executive", New York: Harper & Row, 1967.
- Dunn, S., "Bounded Rationality is not Fundamental Uncertainty", 6th International Post Keynesian Workshop, Knoxville, USA, 2000.

- Dutta, P.K., *et al.*, "Better late than early: Vertical differentiation in the adoption of a new technology", *Journal of Economics and Management Strategy*, Vol. 4, pp.563-589, 1995.
- Eastwood, A., "Firm fires shots at legacy systems", *Computing Canada*, Vol. 12 (2), p.17, 1993.
- Eden, C., Huxham, C., "Action research for management research", *British Journal of Management*, Vol. 7 (1), pp.75-86, 1996.
- Edwards, W., "The Theory of Decision Making", *Psychological Bulletin*, Vol. 54 (4), 1954.
- Edwards, W., "How to make good decisions?", *Acta Psychologica*, Vol. 56, pp.5-27, 1984.
- Edwards, W., Barron, F.H., "SMARTS and SMARTER: improved simple methods for multiattribute utility measurement", *Organizational Behavior and Human Decision Processes*, Vol. 60, pp.306-325, 1994.
- Ehrlich, W., *et al.*, "Determining the Cost of a Stop-Test Decision", *IEEE Software*, March, 1993.
- Elster, J., "The Crisis in Economic Theory", Review of Richard Nelson and Sidney Winter's "An Evolutionary Theory of Economic Change" and John Roemer's "A General Theory of Exploitation and Class", *London Review of Books* (October 20 - November 2), 1983.
- Engelen, J.M.L. van, Zwaan, A.H. van der, "Bedrijfskundige Methodologie 2; een Technisch-Methodologische Context", *Bedrijfskunde*, Vol. 66 (2), pp.85-94 (in Dutch), 1994.
- England, "Personal Value Systems of American Managers", *Academy of Management Journal*, pp.53-68, 1967.
- Erdogmus, H., "Comparative evaluation of software development strategies based on Net Present Value", *First International Workshop on Economics-driven Software Engineering Research*, Toronto (Canada), 1999.
- Erdogmus, H., "Valuation of Learning Options in Software Development in Private and Market Risk", *The Engineering Economist*, Vol. 47 (3), 2002.
- Erlikh, L., "Leveraging legacy system dollars for EE-business", (*IEEE*) *IT Pro*, May/June, pp.17-23, 2000.
- Etzioni, Amitai, "Humble Decision Making", *Harvard Business Review* (July-August), pp.122-126, 1989.
- Fenton, N.E., Pfleeger, S.L., "Software Metrics: A Rigorous & Practical Approach", PWS Publishing Company, 1997.
- Fenton, N.E., *et al.*, "Assessing Dependability of Safety Critical Systems using Diverse Evidence", *IEEE Proceedings Software Engineering*, Vol. 145 (1), pp.35-39, 1998.
- Fenton, N.E., Neil, M., "A Critique of Software Defect Prediction Research", *IEEE Transactions on Software Engineering*, Vol. 25 (5), 1999.
- Fenton, N.E., Neil, M., "Making decisions: using Bayesian nets and MCDA", *Knowledge-Based System Engineering*, Vol. 14 (7), pp.307-325, 2001
- Fenton, N.E., *et al.*, "Making Resource Decisions for Software Projects", 26th International Conference on Software Engineering (ICSE 2004), Edinburgh (UK), *IEEE Computer Society*, pp.397-406, 2004.
- French, J.R.P., Raven, B., "The Bases of Social Power", in "Studies in Social Power", Cartwright, D., (Ed.), University of Michigan Press, pp.150-167, 1959.
- Friedman, M., "Essays in positive economics", Chicago: University of Chicago Press, 1953.
- Fuggetta, A., "Software Process: A Roadmap", in "The Future of Software Engineering", Finkelstein, A., (Ed.), ACM Press, 2000.
- Gaffney, J.D., Davis, C.F., "An Approach to Estimating Software Errors and Availability", *Proceedings of the eleventh Minnowbrook Workshop on Software Reliability*, 1998.
- Gage, D., McCormick, J., "Why Software Quality Matters", *Baseline*, the Project Management Center (March 4th), 2004.
- Garland, K.P., "Diffusion and adoption of instructional technology", in "Instructional technology: Past, present, and future", Anglin, G.J., (Ed.), Englewood, CO: Libraries Unlimited, 1991.
- Gerlich, R., Denskat, U., "A cost estimation model for maintenance and high reuse", *Proceedings of the European Cost Modelling Meeting, ESCOM'94 (Italy)*, 1994.

- Genuchten, M. van, "Why is software late? An empirical study of reasons for delay in software development", IEEE Transactions on Software Engineering, 1991.
- Gibbs, W., "Software's Chronic Crisis", Scientific American, Sept., 1994.
- Gigerenzer, G., "Striking a Blow for Sanity in Theories of Rationality", in "Essays in honor of Herbert Simon", Augier, B., March, J.D., (Eds.), Cambridge, MA: MIT Press, 2004.
- Glass, R.L., "Software Runaways: Monumental Software Disasters", Prentice-Hall, 1998.
- Goel, A.L., "Software reliability Models: Assumptions, Limitations, and Applicability", IEEE Transactions on Software Engineering, Vol. 11 (12), 1985.
- Gokhale, S.S., et al., "Important Milestones in Software Reliability Modeling", Communications in Reliability, Maintainability and Serviceability, SAE International, 1996.
- Golafshani, N., "Understanding Reliability and Validity in Qualitative Research", The Qualitative Report, Vol. 8 (4), pp.597-607, 2003.
- Goodenough, J.B., Gerhart, S.L., "Toward a Theory of Test Data Selection", IEEE Transactions on Software Engineering, June, pp.156-173, 1975.
- Gore, W.J., "Decision-Making Research: Some Prospects and Limitations", in "Concepts and Issues in Administrative Behavior", Nailick, Van Ness, (Eds.), pp.49-65, Englewood Cliffs, N.J.: Prentice-Hall, 1962.
- Grams, T., "The Poverty of Reliability Growth Models", Tenth International Symposium on Software Reliability Engineering, 1999.
- Grantham, C.E., Nichols, L.D., "The digital workplace: Designing groupware platforms", New York: Van Nostrand Reinhold, 1993.
- Greve, H.R., "Performance, Aspirations, and Risky Organizational Change", Administrative Science Quarterly, Vol. 43, pp.58-86, 1998.
- Greve, H.R., "Sticky Aspirations: Organizational Time Perspective and Competitiveness", Organization Science, Vol. 13, pp.1-17, 2002.
- Greve, H.R., "Organizational Learning from Performance Feedback: A Behavioral Perspective on Innovation and Change", Cambridge, MA: Cambridge University Press, 2003.
- Guba, E.G., Lincoln, Y.S., "Fourth generation evaluation", Newbury Park, Sage Publications, 1989.
- Guitouni, A., Martel, J.-M., "Tentative Guidelines to Help Choosing an Appropriate MCDA Method", European Journal of Operational Research, Vol. 109, pp.501-521, 1998.
- Habermas, J., "The Theory of Communicative Action. Volume 1", Boston, MA: Beacon Press, 1984.
- Hamlet, D., "Are we testing for true reliability?", IEEE Software, Vol. 9 (4), pp.21-27, 1992.
- Harrison, E.F., "The Managerial Decision-Making Process", Houghton Mifflin Company, 1987.
- Harrison, W., Cook, C., "Insights on Improving the Maintenance Process Through Software Measurement", Proceedings of the Conference on Software Maintenance, pp.37-45, San Diego (CA), 1990.
- Harrold, M.H., "Testing Evolving Software", Journal of Systems and Software, special issue of top scholars in the field of Systems & Software Engineering (1993-1997), Vol. 47 (2-3), pp.173-181, 1999.
- Hatch, N.W., Macher, J.T., "Mitigating the Time to Market and Performance Tradeoff: Innovation and Knowledge Management in New Technology Introductions", Strategic Management Society 19th Annual International Conference, Berlin, Germany, 1999.
- Hecht, M., et al., "Quantitative Reliability and Availability Assessment for Critical Systems including Software", Proceeding of the twelfth Annual Conference on Computer Assurance, 1997.
- Heijltjes, M., "Organizational Fit or Failure", University of Maastricht Press, 1995.
- Heijltjes, M., Witteloostuijn, A. van, "Configurations of market environments, competitive strategies, manufacturing technologies and human resource management policies", Scandinavian Journal of Management, Vol. 19, pp.31-62, 2003.
- Hetzl, B., "The Complete Guide to Software Testing", John Wiley & Sons, 1993.
- Hill, P.H., et al., "Making Decisions: A Multidisciplinary Introduction", Addison-Wesley Publishing Company, Inc., 1979.

- Hinloopen, E., *et al.*, “*The Regime method: a new multi-criteria technique*”, in “*Essays and Surveys on Multiple Criteria Decision Making*”, Hansen, P., (Ed.), Springer Verlag, Berlin, 1983.
- Hirschey, M., “*Fundamentals of Managerial Economics*”, Thomson, South-western, 2003.
- Hirschheim, R., Klein, H., “*Four paradigms of information systems development*”, Communications of the ACM, Vol. 32 (10), pp.1199-1216, 1989.
- Hoch, D.J., *et al.*, “*Secrets of Software Success: Management Insights from 100 Software Firms Around the World*”, Harvard Business Scoll Press, Boston, MA, 1999.
- Hogarth, R.M., “*Judgment and Choice: The Psychology of Decision*”, pp.53-74, New York: Wiley, 1987.
- Hollander, J., “*Improving Performance in Business Development*”, doctoral dissertation, University of Groningen, The Netherlands, 2002.
- Hoppe, H.C., Lehmann-Grube, U., “*Second-mover advantages in the strategic adoption of new technology under uncertainty*”, Journal of Economics and Management Strategy, Vol. 10, pp.419-433, 2001.
- Hou, R. *et al.*, “*Optimal release Times for Software Systems with Scheduled Delivery Time Based on the HGDM*”, IEEE Transactions on Computers, Vol. 46 (2), 1997.
- Huang, C., *et al.*, “*Optimal Software Release Policy Based on Cost and Reliability with Testing Efficiency*”, Twenty-Third Annual International Computer Software and Applications Conference, Phoenix, Arizona, 1999.
- Huber, G.P., “*Organizational learning: The contributing processes and the literatures*”, Organization Science, Vol. 2 (1), pp.88-115, 1991.
- Huber, O., *et al.*, “*Active Information Search and Complete Information Presentation in Naturalistic Risky Decision Tasks*”, Acta Psychologica, Vol. 95, pp.15-29, 1997.
- Huizenga, F.D., “*Reader Besluitvormingstheorie*”, 4th edition, Faculteit der Sociaal-Culturele Wetenschappen, Vakgroep Politologie en Bestuurskunde, VU Amsterdam (in Dutch), 1994.
- Humphrey, W.S., “*Introduction to the Personal Software Process*”, Addison-Wesley, 1997.
- Humphrey, W.S., “*The Future of Software Engineering: I*”, Column SEI, Vol. 4 (1), 2001.
- Humphrey, W.S., “*Winning with Software: An Executive Strategy*”, Addison-Wesley, 2002.
- Hutjes, J.M., Buuren, J.A. van, “*De gevalsstudie. Strategie van kwalitatief onderzoek*”, Boom (in Dutch), 1992.
- Hwang, C.L., Yoon, K., “*Multi Attribute Decision Making: Methods and Applications*”, Springer-Verlag, New York (NY), 1981.
- Iberle, K., “*They Don't Care About Quality*”, Proceedings of the Software Testing and Analysis & Review (STAR) East Conference, 2003.
- IEEE, “*IEEE Standard for Software Unit Testing*”, IEEE Std. 1008, The Institute of Electrical and Electronics Engineers, 1987.
- IEEE, “*IEEE Standard Dictionary of Measures to Produce Reliable Software*”, IEEE Std. 982.1, The Institute of Electrical and Electronics Engineers, 1988a.
- IEEE, “*IEEE Guide for the Use of IEEE Standard Dictionary of Measures to Produce Reliable Software*”, IEEE Std. 982.1, The Institute of Electrical and Electronics Engineers, 1988b.
- IEEE, “*IEEE Standard Computer Dictionary: A Compilation of IEEE Standard Computer Glossaries*”, IEEE Std. 610, The Institute of Electrical and Electronics Engineers, 1990.
- IEEE, “*IEEE Standard for Software Maintenance*”, IEEE Std. 1219, The Institute of Electrical and Electronics Engineers, 1998.
- In, H., *et al.*, “*A Requirements Negotiation Model Based on Multi-Criteria Analysis*”, International Symposium on Requirements Engineering, Toronto (Canada), 2001.
- Ionita, M.T., *et al.*, “*Scenario-Based Software Architecture Evaluation Methods: An Overview*”, Proceedings of the International Conference on Software Engineering, Orlando (FA), 2002.
- ISO, “*ISO/IEC 12207:1995 Information Technology - Software Life Cycle Processes*”, International Organization for Standardization, 1995.
- ISO, “*ISO/IEC TR 15504:1998 Information Technology - Software process assessment - Part 1: Concepts and introductory guide*”, International Organization for Standardization, 1998a.

- ISO, "ISO/IEC 14598-5:1998 Information Technology - Software Product Evaluation - Part 5: Process for evaluators", International Organization for Standardization, 1998b.
- ISO, "ISO/IEC 15504-5:1999 Information Technology - Software Process Assessment -: Part 5: An assessment model and indicator guidance", International Organization for Standardization, 1999a.
- ISO, "ISO/IEC 14598-1:1999 Information Technology - Software Product Evaluation - Part 1: General overview", International Organization for Standardization, 1999b.
- ISO, "ISO/IEC 14598-4:1999 Software Engineering - Product Evaluation - Part 4: Process for acquirers", International Organization for Standardization, 1999c.
- ISO, "ISO/IEC 9001:2000 Quality management systems - Requirements", International Organization for Standardization, 2000a.
- ISO, "ISO/IEC 14598-2:2000 Software Engineering - Product Evaluation - Part 2: Planning and management", International Organization for Standardization, 2000b.
- ISO, "ISO/IEC 14598-3:2000 Software Engineering - Product Evaluation - Part 3: Process for developers", International Organization for Standardization, 2000c.
- ISO, "ISO/IEC 14598-6:2001 Software Engineering - Product Evaluation - Part 6: Documentation of evaluation modules", International Organization for Standardization, 2001a.
- ISO, "ISO/IEC 9126-1:2001 Software Engineering - Product Quality - Part 1: Quality model", International Organization for Standardization, 2001b.
- ISO, "ISO/IEC 15288:2002 Systems Engineering - System life cycle processes", International Organization for Standardization, 2002a.
- ISO, "ISO/IEC 12207:1995/Amd 1:2002", International Organization for Standardization, 2002b.
- ISO, "ISO/IEC 15504-2:2003 Information Technology - Process Assessment - Part 2: Performing an assessment", International Organization for Standardization, 2003a.
- ISO, "ISO/IEC 9126-2:2003 Software Engineering - Product Quality - Part 2: External metrics", International Organization for Standardization, 2003b.
- ISO, "ISO/IEC 9126-3:2003 Software Engineering - Product Quality - Part 3: Internal metrics", International Organization for Standardization, 2003c.
- ISO, "ISO/IEC 15504-1:2004 Information Technology - Process Assessment - Part 1: Concepts and Vocabulary", International Organization for Standardization, 2004a.
- ISO, "ISO/IEC 15504-2:2003/Cor 1:2004", International Organization for Standardization, 2004b.
- ISO, "ISO/IEC 15504-3:2004 Information Technology - Process Assessment - Part 3: Guidance on performing an assessment", International Organization for Standardization, 2004c.
- ISO, "ISO/IEC 15504-4:2004 Information Technology - Process Assessment - Part 4: Guidance on use for process improvement and process capability determination", International Organization for Standardization, 2004d.
- ISO, "ISO/IEC 9126-4:2004 Software Engineering - Product Quality - Part 4: Quality in use metrics", International Organization for Standardization, 2004e.
- ISO, "ISO/IEC 12207:1995/Amd 2:2004", International Organization for Standardization, 2004f.
- Janis, I.L., "Victims of group think", Boston: Houghton-Mifflin, 1972.
- Janis, I.L., Mann, L., "Decision making: a psychological analysis of conflict, choice, and commitment", The Free Press, New York, 1977.
- Janis, I.L., "Groupthink", Houghton Mifflin, Boston, 1982.
- Jelinski, Z., Moranda, P.B., "Software Reliability Research", Statistical Computer Performance Evaluation, pp. 465-484, Academic Press (New York), 1972.
- Jensen, M.C., Meckling, W.H., "Theory of the Firm: Managerial Behavior, Agency Costs and Ownership Structure", Journal of Financial Economics, Vol. 3 (4), pp.305-360, 1976.
- Jepsen, D.A., Dilley, J.S., "Vocational decision-making models: A review and comparative analysis", Review of Educational Research, Vol. 44, pp.331-349, 1974.
- Johnson, G., Scholes, K., "Exploring Corporate Strategy", 5th Edition, Prentice-Hall, 1999.

- Jones, C., *“Software Quality: Analysis and Guidelines for Success”*, International Thompson Press, 1993.
- Jones, C., *“The Impact of Poor Quality and Canceled Projects on the Software Labor Shortage”*, Technical Report, Software Productivity Research, Inc., 1998.
- Jones, C., *“Software Quality In 2002: A Survey Of The State Of The Art”*, Software Productivity Research, Inc., 2002.
- Jørgensen, M., “An empirical study of software maintenance tasks”, *Journal of Software Maintenance: Research and Practice*, Vol. 7 (1), pp.27-48, 1995.
- Kahn, B.E., Baron, J., *“An Exploratory Study of Chopice Rules Favored for High Stakes Decisions”*, *Journal of Consumer Psychology*, Vol. 4 (4), pp.305-328, 1995.
- Kahneman, D., Tversky, A., *“Prospect theory: An analysis of decisions under risk”*, *Econometrika*, Vol. 47, pp.263-291, 1979.
- Kahneman, D., *et al.*, *“Judgment under Uncertainty: Heuristics and Biases”*, New York, Cambridge University Press, 1982.
- Kahneman, D., Tversky, A., *“Choices, values, and frames”*, *American Psychologist*, Vol. 39, pp.341–350, 1984.
- Käkölä, T., *“Software Business Models and Contexts for Software Innovation: Key Areas for Software Business Research”*, Proceedings of the 36th Hawaii Conference on Systems Sciences, 2002.
- Kallberg, G., Laurin, P., *“Real Options in R&D Capital Budgeting”*, Master thesis, Gothenburg School of Economics and Commercial Law, 1997.
- Kan, S.H., *“Metrics and Models in Software Quality Engineering”*, Addison-Wesley, 2003.
- Kapur, P.K., Garg, R.B., *“Cost-reliability Optimum Release Policies for a Software System under Penalty Cost”*, *Journal of Systems Science*, Vol. 20, pp.2547-2562, 1989.
- Kazman, R., *et al.*, *“The Architectural Trade-off Analysis Method”*, Software Engineering Institute, CMU/SEI-98-TR-008, 1998.
- KBA, *“Jahresbericht 2003/2004”*, Kraftfahrt-Bundesamt, Flensburg (in German), 2003.
- Keene, S.J., *“Comparing Hardware and Software Reliability”*, *Reliability Review*, Vol. 14 (4), pp.5-7, 1994.
- Keeney, R.L., Raiffa, H., *“Decisions with Multiple Objectives: Preferences and Value Trade-offs”*, Cambridge University Press, 1993.
- Keller, K.L., Staelin, R., *“Effects of Quality and Quantity of Information on Decision Effectiveness”*, *Journal of Consumer Research*, Vol. 14 (2), pp.200-213, 1987.
- Kelly, T.P., *“Arguing Safety”*, PhD thesis, University of York (UK), 1998.
- Kemerer, C., *“Software complexity and software maintenance: a survey of empirical research”*, *Annals of Software Engineering I*, pp.1-22, J.C.Baltzer AG, Science Publishers, 1995.
- Keren, G., Bruine de Bruin, W., *“On the Assessment of Decision Quality: Considerations Regarding Utility, Conflict and Accountability”*, in *“Thinking: Psychological Perspectives on Reasoning, Judgment and Decision Making”*, Hardman, D., Macchi, L., (Eds.), John Wiley & Sons, Ltd., 2003.
- Keren, G., *“Additional tests of utility theory under unique and repeated conditions”*, *Journal of Behavioral Decision Making*, Vol. 4, pp.297-304, 1991.
- Kickert, W.J.M., Gigch, J.P. van, *“A metasystem approach to organisational decision-making”*, in *“Decision making about decision making: meta-models and metasystems”*, Gigch, J.P. van, (Ed.), pp.37-55, Abacus Press, 1987.
- Kimura, M., *et al.*, *“Economic Analysis of Software Release Problems with Warranty Cost and Reliability Requirement”*, *Reliability Engineering and System Safety*, Vol. 66, pp. 49-55, 1999.
- Kitchenham, B., Pfleeger, S.L., *“Software Quality: The Elusive Target”*, *IEEE Software*, Vol. 13 (1), pp.12-21, 1996.
- Klompé, R., *“The Alignment of Operational ICT”*, Thesis Delft University of Technology, 2003.
- Knox, S.T., *“Modeling the cost of software quality”*, *Digital Technical Journal* 5, Vol. (4), pp.9-16, 1993.

- Kogut, B., Kulatilaka, N., "*Capabilities as Real Options*", *Organization Science*, Vol. 12 (6), pp.744-758, 2001.
- Kolstoe, J.E., "*Consultation: a Universal Lamp of Guidance*", Oxford: George Ronald, 1985.
- Koomen, T., Pol, M., "*Test Process Improvement: a practical step-by-step guide to structured testing*", Addison-Wesley, 1999.
- Korsgaard, A.M., et al., "*Building commitment, attachment, and trust in strategic decision-making teams: The role of procedural justice*", *Academy of Management Journal*, Vol. 38 (1), pp.60-84, 1995.
- Koskinen, J., et al., "*Software Maintenance Cost Estimation and Modernization Support*", ELTI-project, Information Technology Research Institute, 2003.
- Kranton, R.E., "*Competition and the Incentive to Produce High Quality*", *Economica*, Vol. 70 (279), pp.385-404, 2003.
- Krasner, H., "*Using the cost of quality approach for software*", *Crosstalk*, No. 11, 1989.
- Krosnick, J.A., et al., "*Satisficing in surveys: Initial evidence*", in "*Advances in survey research*", Braverman, T.M., Slater, J.K., (Eds.), pp.29-44, San Francisco: Jossey-Bass, 1996.
- Kruchten, P., "*The Rational Unified Process: An Introduction*", Addison-Wesley, 2000.
- Kunreuther, R.M., et al., "*High Stakes Decision Making: Normative, Descriptive and Prescriptive Considerations*", *Marketing Letters*, Vol. 13 (3), pp.259-268, 2002.
- Lammers, C.J., et al., "*Organisaties vergelijkenderwijs*", Het Spectrum, (in Dutch), 1997.
- Lant, T.K., "*Aspiration Level Adaptation: An Empirical Exploration*", *Management Science*, Vol. 38, pp.623-644, 1992.
- Le Guin, U.K., "*The Left Hand of Darkness*", Walker, 1969.
- Lederer, D., et al., "*Automotive Systems Engineering - The Solution for Complex Technical Challenges?*", 5. Internationales Stuttgarter Symposium "Kraftfahrwesen und Verbrennungsmotoren", 2003.
- Lee, W., "*Decision Theory and Human Behaviour*", John Wiley & Sons, Inc., New York, 1971.
- Leeuw, A.C.J. de, "*Organisaties: Management, Analyse, Ontwerp en Verandering: een systeemvisie*", Van Gorcum, Assen/Maastricht (in Dutch), 1990.
- Leeuw, A.C.J. de, "*Besturen van Veranderingsprocessen: Fundamenteel en Praktijkgericht Management van Organisatieveranderingen*", Van Gorcum, Assen/Maastricht (in Dutch), 1994.
- Leeuw, A.C.J. de, "*Bedrijfskundige Methodologie: Management van Onderzoek*", Van Gorcum, Assen/Maastricht (in Dutch), 2003.
- Leung, Y.W., "*Optimum Software Release Time with a given Cost Budget*", *The Journal of Systems and Software*, Vol. 17, pp.233-242, 1992.
- Leveson, N.G., Turner, C.S., "*An Investigation of the Therac-25 Accidents*", *IEEE Computer*, Vol. 26, No. 7, pp.18-41, 1993.
- Leveson, N.G., "*Safeware: System Safety and Computers*", Addison-Wesley, 1994.
- Leveson, N.G., "*The Role of Software in Spacecraft Accidents*", *AIAA Journal of Spacecraft and Rockets*, Vol. 41 (4), 2004.
- Lévesque, M., Shepherd, D.A., "*Entrepreneurs Choice of Entry Strategy in Emerging and Developed Markets*", *Journal of Business Venturing*, Vol. 19 (1), pp.29-54, 2004.
- Levi, A., Tetlock, P.E., "*A Cognitive Analysis of Japan's 1941 Decision for War*", *Journal of Conflict Resolution*, Vol. 24, pp.195-211, 1980.
- Levinthal, D.A., March, J.G., "*A model of adaptive organizational search*", *Journal of Economic Behavior and Organization*, Vol. 2, pp.307-333, 1981.
- Levitt, M., "*Economic and Productivity Considerations in ASIC Test and Design-for-Test*", *Digest for Papers: Comcon 1992*, pp.440-445, 1992.
- Li, P.L., et al., "*Selecting a defect prediction model for maintenance resource planning and software insurance*", *Fifth International Workshop on Economics-driven Software Engineering Research*, Oregon (USA), 2003.
- Lientz, B.P., Swanson, E.B., "*Software Maintenance Management*", Addison-Wesley, 1980.
- Lientz, B.P., Swanson, E.B., "*Problems in applications software maintenance*", *Communications of the ACM*, Vol. 24 (11), pp.763-769, 1981.

- Lin, P., Saggi, K., "Timing of Entry under Externalities", Journal of Economics, Vol. 75 (3), pp.211-225, 2002.
- Lindblom, C.E., "The Science of Muddling Through", Readings in Managerial Psychology, 1964.
- Lindblom, C.E., "Still Muddling, Not Yet Through", Public Administration Review, pp.517-536, 1979.
- Linders, B., Sassenburg, H., "A Proactive Attitude Toward Quality: The Project Defect Model", Software Quality Professional, Vol. 7 (1), 2004.
- Littlewood, B., "Stochastic Reliability Growth: A Model for Fault Removal in Computer Programs and Hardware Designs", IEEE Transactions on Reliability, Vol. R-30, pp.313-320, 1981.
- Littlewood, B., Strigini, L., "Software Reliability and Dependability: a Roadmap", Proceedings of the 22nd International Conference on Software Engineering, 2000.
- Liu, J., "Detailed Model shows FPGAs' True Costs", EDN, pp.153-158, 1995.
- Lootsma, F.A., "The REMBRANDT System for Multi-criteria Decision Analysis via Pairwise Comparisons or Direct Rating", Report 92-05, Faculty of Technical Mathematics and Informatics, Delft University of Technology, The Netherlands, 1992.
- Lopes, L.L., "Decision making in the short run", Journal of Experimental Psychology: Human Learning and Memory, Vol. 7, pp.377-385, 1981.
- Lyu, M.R., "Handbook of Software Reliability Engineering", McGraw-Hill publishing, 1995.
- Maidique, M.A., Zirger, B.J., "A Study of Success and Failures in Product Innovation: The Case of the U.S. Electronics Industry", IEEE Transactions on Engineering Management, Vol. 31 (4), pp.192-203, 1984.
- Maier, N.R.F., "Problem solving and creativity in individuals and groups", Belmont, CA: Brooks/Cole, 1970.
- Mallick, D.N., Schroeder, R.G., "An Integrated Framework for Measuring Product Development Performance in High Technology Industries", POM special issue on High Tech Production and Operations Management (under review), 2003.
- Mancini, L., Ciampoli, R., "Maintenance cost estimation: industrial point of view", 1990 European COCOMO's User's Group Meeting (UK), 1990.
- Mandron, A., "Project Valuation: Problem Areas, Theory and Practice", The Current State of Business Disciplines, Vol. 3, pp.997-1017, 2000.
- Maneck, S.W., "The Nature and Scope of Management", p.67, Chicago: Scott, Foresman, 1966.
- March, J.G., Simon, H.A., "Organizations", New York: John Wiley, 1958.
- March, J.G., "Bounded Rationality, Ambiguity, and the Engineering of Choice", Bell Journal of Economics 9, pp.587-608, 1978.
- March, J.G., Olsen, J.P., "Ambiguity and Choice in Organizations", 2nd Edition, Universitetsforlaget (Norway), 1979.
- Marsick, V.J., Watkins, K.E., "Case study research methods", in "Human Resource Development Research Handbook", Swanson, R.A., Holton, E.F., (Eds.), San Francisco, CA, Berret-Koehler, pp.138-157, 1997.
- Maxwell, J., "Understanding and validity in qualitative research", Harvard Educational Review, Vol. 62 (3), pp.279-300, 1992.
- McCall, J.A., et al., "Factors in Software Quality", RADC TR-77-369, US Rome Air Development Center Reports, 1977.
- McClelland, G., et al., "Insurance for Low-Probability Hazards: A Bimodal Response to Unlikely Events", Journal of Risk and Uncertainty, Vol. 7, pp.95-116, 1993.
- McConnell, S., "Rapid Development: Taming Wild Software Schedules", Microsoft Press, 1996.
- McConnell, S., "Closing the Gap", IEEE Software (January/February), 2002.
- McGregor, D.M., "The Human Side of Enterprise", New York: McGraw-Hill, 1960.
- McKinsey, "Quality Gates: Successfully Shaping the Product Development Process", 2001.
- McQuire, J.W., "The Social Values of Economic Organizations", Review of Social Economy, pp.62-63, 1947.

- Mercer Management Consulting, "*Automobiltechnologie 2010*", study from HypoVereinsbank and Mercer Management Consulting (in German), 2002.
- Messerschmitt, D.G., Szyperski, C., "*Industrial and Economic Properties of Software: Technology, Processes and Value*", Microsoft Research, MSR-TR-2001-11, 2001.
- Meyer, R., Hutchinson, W., "*Bumbling Geniuses: The Power of Everyday Reasoning in Multistage Decision Making*", in "*Wharton on Making Decisions*", Hoch, S., Kunreuther, H., (Eds.), New York: John Wiley, 2000.
- Miller, D., "*Relating Porter's Business Strategies to Environment and Structure*", Academy of Management Journal, No. 31, pp. 280-308, 1988.
- Mills, H.D., "*On the Statistical Validation of Computer Programs*", IBM Federal Systems Division, Rep. 72-6015, 1972.
- Mills, H., et al., "*Cleanroom Software Engineering*", IEEE Software, Vol. 4 (5), pp.19-25, 1987.
- Mintzberg, H., "*Strategy-Making in Three Modes*", California Management Review, pp.44-53, Winter, 1973.
- Moore, G., "*Crossing the Chasm*", Harperbusiness, New York, 1995.
- Morrison, J., "*Team Memory: Information management for business teams*", Proceedings of the Twenty-Sixth Hawaii International Conference on System Sciences '93, CA: IEEE Press, pp.122-131, 1993.
- Moscovici, S., Doise, W., "*Conflict & Consensus: A General Theory of Collective Decisions*", Sage Publications, 1994.
- Mulder, M., "*Omgaan met macht: ons gedrag met elkaar en tegen elkaar*", Elsevier, Amsterdam (in Dutch), 1979.
- Myers, G.J., "*The Art of Software Testing*", John Wiley & Sons, 1979.
- Neil, M., Fenton N., "*Improved Software Defect Prediction*", European SEPG Conference (London), 2005.
- Nissen, H., et al., "*Information Systems Research: Contemporary Approaches and Emergent Traditions*", Elsevier Publishers, North Holland, 1991.
- Norden, P.V., "*Useful Tools for Project Management*", Operations Research in Research and Development, edited by Dean, B.V., John Wiley & Sons, 1963.
- Niessink, F. van, Vliet, "*Predicting maintenance effort with function points*", Proceedings of the International Conference on Software Maintenance, pp.32-39, IEEE Computer Society, 1997.
- Niessink, F., et al., "*The IT Service Capability Maturity Model*", Version 0.4, CIBIT Consultants, 2004.
- Nosek, J.T., Palvia, P., "*Software Maintenance Management: changes in the last decade*", Software Maintenance: Research and Practice (2), 1990.
- Nutt, P.C., "*Framing strategic decisions*", Organization Science, Vol. 9 (2), pp.195-216, 1998.
- Oberholzer-Gee, F., "*Learning to Bear the Unbearable: Towards an Explanation of Risk Ignorance*", mimeo, Wharton School, University of Pennsylvania, 1998.
- Office of Government Commerce, "*Managing Successful Projects with PRINCE2*", The Stationary Office, 2002a.
- Office of Government Commerce, "*ITIL Applications Management*", The Stationary Office, 2002b.
- Ohba, M., "*Software Reliability Analysis Models*", IBM Journal of Research Development, Vol. 28 (4), 1984.
- Okumoto, K., Goel, A.L., "*Optimum Release Time for Software Systems Based on Reliability and Cost Criteria*", Journal of Systems and Software, Vol. 1, pp.315-318, 1980.
- Oman, P., Hagemester, J., "*Constructing and testing of Polynomials Predicting Software Maintainability*", Journal of Systems and Software, Vol. 24 (3), March, 1994.
- Ouchi, W.G., "*Theory Z*", Reading, MA: Addison-Wesley, 1981.
- Paelinck, J.H., "*Qualitative multiple criteria analysis, environmental protection and multiregional development*", Papers of the Regional Science Association, Vol. 36, pp.59-74, 1976.

- Palmer, S.R., Felsing, J.M., *"A Practical Guide to Feature-Driven Development"*, Prentice-Hall, 2002.
- Palys, T., *"Research Decisions: Quantitative and Qualitative Perspectives"*, Harcourt Brace & Company, Canada, pp.409-428, 1997.
- Parker, M.M., et al., *"Information Strategy and Economics"*, New Jersey, Prentice-Hall, 1989.
- Parnas, D.L., *"Designing Software for Ease of Extension and Contraction"*, IEEE Transactions on Software Engineering, March, pp.128-137, 1997.
- Patton, M.Q., *"Qualitative evaluation and research methods"*, Thousand Oaks, CA: Sage Publications, Inc., 2002.
- Paulk, M.C., et al., *"Capability Maturity Model for Software, Version 1.1"*, Software Engineering Institute, CMU/SEI-93-TR-24, DTIC Number ADA263403, February, 1993.
- Peshkin, A., *"Virtuous subjectivity: in the participant observer's I's"*, in *"The Self in Social Inquiry: Researching Methods"*, Berg, D., Smith, K., (Eds.), Newbury Park: Sage, pp.267-281, 1988.
- Peters, G., *"The Evaluation of Information Technology Projects"*, PhD thesis, Brunell University, 1989.
- Pettit, P., *"Satisficing Consequentialism"*, Proceedings of the Aristotelian Society, suppl. 58, pp.165-176, 1984.
- Pham, H., Zhang, X., *"A Software Cost Model with Warranty and Risk Costs"*, IEEE Transactions on Computers, Vol. 48 (1), 1999.
- Pham, H., Zhang, X., *"NHPP Software Reliability and Cost Models with Testing Coverage"*, European Journal of Operational Research, Vol. 145, pp.443-454, 2003.
- Pol, M., et al., *"Software Testing: A Guide to the TMap approach"*, Addison-Wesley, 2002.
- Polit, D.F., et al., *"Essentials of Nursing Research: Methods, Appraisal and Utilisation"*, Philadelphia, Lippincott, 2001.
- Pondy, L.R., *"A Systems Theory of Organizational Conflict"*, Academy of Management Journal, pp.246-256, 1966.
- Poore, J.H., *"A Tale of Three Disciplines ... and a Revolution"*, IEEE Computer Society (January), pp.30-36, 2004.
- Porter, M.E., *"Competitive Strategy"*, The Free Press, 1980.
- Poulin, J.S., et al., *"The business case for software reuse"*, IBM Systems Journal, Vol. 32 (4), 1993.
- Pressman, R.S., *"Software Engineering: A Practitioner's Approach"*, McGraw-Hill, 2000.
- Project Management Institute, *"A Guide to the Project Management Body of Knowledge"*, Project Management Institute, 2000.
- Putnam, L.H., Myers, W., *"Measures for Excellence: Reliable Software On Time Within Budget"*, Yourdon Press Computing Series, 1992.
- Putnam, L.H., Myers, W., *"Industrial Strength Software, Effective Management Using Measurement"*, IEEE Computer Society Press, 1997.
- Putnam, L.H., *"Linking the QSM Productivity Index to the SEI Maturity Level"*, Quantitative Software Management, Inc., 2000.
- Putnam, L.H., Myers, W., *"Five Core Metrics: The Intelligence Behind Successful Software Management"*, Dorset House Publishing, 2003.
- Rae, H., Robert, P., *"Software Product Evaluation"*, McGraw-Hill, 1995.
- Raghavan, S.A., Chand, D.R., *"Diffusing Software-Engineering Methods"*, IEEE Software (July), pp.81-90, 1989.
- Rajala, K., et al., *"A framework for analysing software business models"*, Proceedings of 11th European Conference on Information Systems, 2003.
- Rausch, A., *"Überblick zum neuen V-Modell XT"*, BAKWVT presentation (in German), 2004.
- Redelmeier, D.A., Tversky, A., *"On the framing of multiple prospects"*, Psychological Science, Vol. 3, pp.191-193, 1992.
- Reifer, D., *"Industry Software Cost, Quality and Productivity Benchmarks"*, The DoD Software Tech News, Vol. 7 (2), 2004.
- Reliability Analysis Center, *"Introduction to Software Reliability: A State of the Art Review"*, Reliability Analysis Center (RAC), 1996.

- Reliability Analysis Center, *"The R&M Case: A Reasoned, Auditable, Argument Supporting the Contention that a System Satisfies its R&M Requirements"*, Selected Topics in Assurance Related Technologies (START), Vol. 11 (2), Reliability Analysis Center (RAC), 2004.
- Remenyi, D., *et al.*, *"Doing Research in Business and Management"*, Sage Publications, 2000.
- Ribbers, P.M.A., *et al.*, *"Option pricing for IT valuation: a dead end"*, in *"Evaluation of Information Technology"*, Berghout, E.W., Remenyi, D.S.J., (Eds.), (pp. 67-75) Delft University Press, 1997.
- Rifkin, S., *"What Makes Measuring Software So Hard?"*, IEEE Software, Vol. 18 (3), pp.41-45, 2001.
- Robson, C., *"Real World Research"*, Oxford, Blackwell, 2002.
- Rogers, E.M., *"Diffusion of Innovations"*, New York: The Free Press, 1962.
- Rome Laboratory, *"Methodology for Software Reliability Prediction and Assessment"*, Technical Report RADC-TR-87-171, 1987.
- Rosenberg, L.H., Hyatt, L.E., *"Software Metrics Program for Risk Assessment"*, 47th International Astronautical Congress & Exhibition, 29th Safety and Rescue Symposium, Risk management and Assessment Session, Beijing, China, 1996.
- Rosenberger, R.S., *"Rationality, Decision Theories, and Threshold: Implication for Environmental Valuation"*, Morgantown, West Virginia: Regional Research Institute and Division of Resource Management, West Virginia University, 2001.
- Rothwell, R., *et al.*, *"SAPPHO Updated – Project SAPPHO Phase II"*, Research Policy, pp.258-291, 1974.
- Roy, B., *"The outranking approach and the foundations of ELECTRE methods"*, Theory and Decision, Vol. 31, pp.49-73, 1991.
- Royce, W., *"Current Problems"*, in *"Aerospace Software Engineering"*, Anderson, C., Dorman, M., (Eds), pp.5-15. Washington, D.C.: American Institute of Aeronautics and Astronautics, 1991.
- RTI, *"The Economic Impacts of Inadequate Infrastructure for Software Testing"*, Planning Report 02-3, Prepared by RTI for National Institute of Standards and Technology, U.S. Department of Commerce, 2002.
- Saaty, T.L., *"The Analytic Hierarchy Process"*, John Wiley, New York, 1980.
- Sachs, S.G., *"The Diffusion of Innovations: The Overlooked Literature"*, Association for Educational Communications and Technology, New Orleans, LA, 1993.
- Saint, S., Lawson, J.R., *"Rules for Reaching Consensus: A Modern Approach to Decision Making"*, Pfeiffer & Company, 1994.
- Sassenburg, H., *"Software Engineering: Van Ambacht naar Professie"*, Tutein Nolthenius (in Dutch), 2002a.
- Sassenburg, H., *"Reviews, waarom en hoe?"*, Informatie, October, pp.16-21 (in Dutch), 2002b.
- Sassenburg, H., *"Vrijgavecriteria moeten rol spelen bij investeringsbesluit"*, Automatisering Gids, April 11th, p.15 (in Dutch), 2003.
- Sassenburg, H., *"Software releasing: do the numbers matter?"*, in *"Measure! Knowledge! Action!"*, Huijgens, H., (Ed.), The NESMA Anniversary Book, 2004.
- Sassenburg, H., Berghout, E., *"A managerial release-decision model for IT-applications"*, 11th European Conference on the Evaluation of IT, November 11-12, Amsterdam (The Netherlands), 2004.
- Saunders, M., *et al.*, *"Research Methods for Business Students"*, pp.82-98, Prentice-Hall, 2003.
- Savage, L.J., *"The Foundation of Statistics"*, John Wiley and Sons, New York, 1954.
- Sawhney, W., *"Technology Marketing"*, Lecture Section 8: Managing New Offering Realization, Kellogg Graduate School of Management, Northwestern University (USA), 1999.
- Scacchi, W., *"Understanding Software Productivity"*, in *"Advances in Software Engineering and Knowledge Engineering"*, Hurley, D., (Ed.), Vol. 4, pp.37-70, 1995.
- Schick, G.J., Wolverson, R.W., *"Assessment of Software Reliability"*, Proceedings of Operational Research, Physica-Verlag (Wirzburg-Wien), 1973.
- Schmidt, J.B., Calantone, R.J., *"Decision-making During New Product Development Projects: A Conceptualization and Empirical Investigation"*, PDMAS International Conference, pp.215-244, 1997.

- Schmidt, D.C., "Why Software Reuse has Failed and How to Make It Work for You", C++ Report Magazine (January), 1999.
- Schneider, S.L., "Aspiration level contingency, the status quo, and current theories of risky choice", Journal of Experimental Psychology: Learning, Memory, and Cognition, Vol. 18 (5), pp.1040-1057, 1992.
- Schön, D.A., "Beyond the Stable State: Public and private learning in a changing society", Hammondsworth, 1973.
- Penguin Schramm, W., "Notes on case studies of instructional media projects", Working paper for the Academy for Educational Development, Washington, DC, 1971.
- Schwaber, K., Beedle, M., "Agile Software Development with Scrum", Prentice-Hall, 2001.
- Seale, C., "Quality in qualitative research", Qualitative Inquiry, Vol. 5 (4), pp.465-479, 1999.
- Sellami, A., Abran, A., "The contribution of metrology concepts to understanding and clarifying a proposed framework for software measurement validation", 13th International Workshop on Software Measurement, Montreal, 2003.
- Selten, R., "What is bounded rationality?", in "Bounded rationality: The adaptive toolbox", Gigerenzer, G., Selten, R., (Eds.), pp.13-36, Cambridge, MA: MIT Press.
- Sheard, S.A., "Evolution of the Frameworks Quagmire", IEEE Computer, July, 2001.
- Shepperd, M., Schofield, C., "Estimating software project effort using analogies", IEEE Transactions on Software Engineering, Vol. 23 (12), 1997.
- Shull, F.A., et al., "Organizational Decision-Making: Perspectives and Technologies", NY, McGraw-Hill, 1970.
- Simon, H.A., "A Behavioral Model of Rational Choice", Quarterly Journal of Economics, Vol. 69, pp.99-118, 1955.
- Simon, H.A., "Models of man", New York: Wiley, p.198, 1957.
- Simon, H.A., "The Sciences of the Artificial", Cambridge: MIT Press, 1969.
- Simon, H.A., "New Science of Management Decision", Prentice-Hall, 1977.
- Simon, H.A., "Rational Decision-making in Business Organizations", Nobel Memorial Lecture, Carnegie Mellon University, 1978.
- Simon, H.A., "Models of Bounded Rationality", Vol. 2, Cambridge, MIT Press, 1982.
- Slovic, P., et al., "Cognitive processes and societal risk taking", in "Cognitive processes and societal behavior", Carroll, J.S., Payne, J.W., (Eds.), Hillsdale, NJ: Lawrence Earlbaum Associate Publishers, 1976.
- Smith, P.G., "Fast-cycle Product Development", Engineering Management Journal, Vol. 2 (2), 1990.
- Sneed, H., "Estimating the costs of software maintenance tasks", Proceedings of the International Conference on Software Maintenance, pp.168-181, IEEE Computer Society Press, 1995.
- Software Engineering Institute, "The Capability Maturity Model: Guidelines for Improving the Software Process", Addison-Wesley, 1995.
- Software Engineering Institute, "CMMI for Software Engineering (Staged Representation)", Technical Report CMU/SEI-2002-TR-029, 2002.
- Software Engineering Institute, "Process Maturity Profile, Software CMM[®], 2003 Year End Update", website www.sei.cmu.edu, 2004.
- Solingen R. van, Berghout, E., "The Goal/Question/Metric Method: A Practical Guide for Quality Improvement of Software Development", McGraw-Hill, 1999.
- Solingen, R. van, "Product focused software process improvement", PhD thesis, Eindhoven University of Technology, 2000.
- Sommerville, I., "Software Engineering", Addison-Wesley, 1995.
- Stake, R.E., "The Art of Case Study Research", Sage Publications, 1995.
- Standish Group, "Study on project successes and failures", Standish Group International, Inc., 1995.
- Standish Group, "CHAOS: A Recipe for Success", Standish Group International, Inc., 2001.
- Standish Group, "CHAOS: A Recipe for Success", Standish Group International, Inc., 2004.
- Stapleton, J., Constable, P., "DSDM: A framework for business centered development", Addison Wesley 1997.

- Steinbruner, J.D., *"The Cybernetic Theory of Decision: New Dimensions of Political Analysis"*, Princeton University Press, 1974.
- Steiner, I.D., *"Heuristic models of groupthink"*, in *"Group decision making"*, Brandstatter, M. et al., (Eds.), pp.503-524, New York: Academic Press, 1982.
- Stenbacka, C., *"Qualitative research requires quality concepts of its own"*, *Management Decision*, Vol. 39 (7), pp.551-555, 2001.
- Stokman, F.N., et al., *"Strategic Decision Making"*, *Advances in Group Processes*, Vol. 17, pp.131-153, 2000.
- Stokman, F.N., *"Frame dependent modeling of influence processes"*, in *"Rational-Choice-Theorie in den Sozialwissenschaften. Anwendungen und Probleme"*, Diekmann, A., Voss, T., (Eds.), München: Oldenbourg Verlag, pp.113-127, 2004.
- Strassmann, P.A., *"Information Payoff"*, New York, Free Press, 1990.
- Strauss, A., Corbin, J., *"Basics of qualitative research: Grounded theory procedures and techniques"*, Newbury Park, CA: Sage Publications, Inc., 1990.
- Strigini, L., *"Limiting the dangers of intuitive decision making"*, *IEEE Software*, Vol, 13 (1), pp.101-103, 1996.
- STW Technology Foundation, *"Embedded Systems Roadmap 2002"*, Eggermont, L.D.J., (Ed.), 2002.
- Sullivan, K.J., et al., *"Software Design as an Investment Activity: A Real Options Perspective"*, in *"Real Options and Business Strategy: Applications to Decision Making"*, Trigeorgis, L., (Ed.), London, England: Risk Books, pp.215-261, 1999.
- Tallon, P.P., et al., *"Using Real Options Analysis for Evaluating Uncertain Investments in Information Technology"*, *Communications of the Association for Information Systems*, Vol. 9, pp.136-167, 2002.
- Tellis, G.J., Golder, P.N., *"First to market, first to fail?"*, *Sloan Management Review*, Vol. 37, pp.65-75, 1996.
- Thayer, T.A., et al., *"Software Reliability Study"*, Report RAD-TR-76-238, 1976.
- Thomas, R.L., *"Using Mathematics in Economics"*, Addison-Wesley, 1999.
- Thompson, J.D., *"Organizations in Action"*, pp.134-135, New York: McGraw-Hill, 1967.
- Treacy, M., Wiersema, F., *"The Discipline of Market Leaders: Choose Your Customers, Narrow Your Focus, Dominate Your Market"*, Addison-Wesley, Reading, MA, 1995.
- Triantaphyllou, E., *"Multi-Criteria Decision Making Methods: A Comparative Study"*, Kluwer Academic Publishers, 2000.
- Trigeorgis, L., *"Real Options: Managerial Flexibility and Strategy in Resource Allocation"*, Cambridge MA: MIT Press, 1996.
- Trull, S.G., *"Some Factors Involved in Determining Total Decision Success"*, *Management Science*, B-270-B-280, 1966.
- Tsotsos, J.K., *"Computational resources do constrain behavior"*, *Behavioral and Brain Sciences*, Vol. 14, pp.506-507, 1991.
- Tversky, A., Kahneman, D., *"The framing of Decisions and the Psychology of Choice"*, *Science*, Vol. 21, pp.453-458, 1981.
- Tversky, A., *"Intransitivity of preferences"*, *Psychological Review*, Vol. 76, pp.31-48, 1969.
- Usher, R., Bryant, I., *"Adult Education as Theory, Practice and Research"*, London: Routledge, 1989.
- Varin, H.R., *"Buying, Sharing and Renting Information Goods"*, *Journal of Industrial Economics*, Vol. 48, pp.473-488, 2000.
- Ven, A.H. van de, Delbecq, A.L., *"Nominal versus interacting group processes for committee decision-making effectiveness"*, *Academy of Management Journal*, Vol. 14 (2), 1972.
- Vliet, H. van, *"Software Engineering: Principles and Practice"*, 2nd edition, John Wiley & Sons, 2000.
- Wallace, D., Coleman, C., *"Hardware and Software Reliability: Application and Improvement of Software Reliability Models"*, Software Assurance Technology Center, Report 323-08, NASA, 2001.
- Walsham, G., *"Organizational metaphors and information systems research"*, Chichester, Wiley, 1993.

- Walton, R.E., Dutton, J.M., "The management of interdepartmental conflict: a model and review", *Administrative Science Quarterly*, December, pp.73-84, 1969.
- Weinstock, C.B., et al., "Dependability Cases", Technical Note, CMU/SEI-2004-TN-016, Software Engineering Institute, 2004.
- Wheeler, D.J., "The Six Sigma Practitioner's Guide to Data Analysis", SPC Press, 2005.
- Whittaker, J.A., "What Is Software Testing? And Why Is It So Hard?", *IEEE Software*, January/February, 2000.
- Winch, G.W., "Developing consensus: Reflections on a model-supported decision process", *Management Decision*, Vol. 33 (6), pp.22-31, 1995.
- Winter, S.G. Jr., "Economic 'Natural Selection' and the Theory of the Firm", *Yale Economic Essays*, Vol. 4 (1), pp.224-272, 1964.
- Wisker, G., "The Postgraduate Research Handbook", Basingstoke: Palgrave, 2001.
- Witteloostuijn, A. van, "Maximising and Satisficing: Opposite or Equivalent Concepts?", *Journal of Economic Psychology*, pp.289-313, North Holland, 1988.
- Wood, A., "Software Reliability Growth Models: Assumptions vs. Reality", Eighth International Symposium on Software Reliability Engineering, ISSRE'97, pp.136-143, 1997.
- Wu, C.W., Wei, C.C., "The economic models for a VLSI test strategy planning system", *Proceedings SEMICON Taiwan 97, Test Seminar*, pp.87-92, 1997.
- Xie, M., "Software Reliability Modeling", Singapore: World Scientific, 1991.
- Xie, M., Yang, B., "A Study of the Effect of Imperfect Debugging on Software Development Cost", *IEEE Transactions on Software Engineering*, Vol. 29 (5), 2003.
- Yamada, S., Osaki, "Optimal Software Release Policies for a Nonhomogeneous Software Error Detection Rate Model", *Microelectronic Reliability*, Vol. 26, pp.691-702, 1986.
- Yamada, S., et al., "Optimal Software Release Problems with Life-cycle Distribution and Discount Rate", *Transactions ISP, Japan*, pp.1188-1197 (in Japanese), 1993.
- Yang, F., "ESP: A 10-Year Retrospective", *Embedded Systems Programming Conference*, November, 1998.
- Yang, M.C.K., Chao, A., "Comparisons of methods in reliability estimation and stopping rules for software testing", *IEEE Transactions on Reliability*, Vol. 44, pp.315-321, 1995.
- Yin, R.K., "Case Study Research: Design and Methods", Sage Publications, 1994.
- Zeephongsekul, P., Chiera, C., "Optimal Release Policy Based on a Two-Person Game of Timing", *Journal of Applied Probability*, Vol. 32, pp.470-481, 1995.
- Zeephongsekul, P., "Stackelberg Strategy Solution for Optimal Software Release Policies", *Journal of Optimization Theory and Applications*, Vol. 91, pp.215-233, 1996.
- Zhao, H., "R&D Competition Between an Incumbent and an Entrant: An Integrated Model of R&D Investment, Performance Improvement, and Time-to-Market", *Review of Marketing Science Working Papers*, Vol. 2 (2), 2002.
- Zwaan, A.H. van der, "Van geval tot geval; ontvouwen of beproeven? Over onderbenutting van gevalstudies", in "Dilemma's in de bedrijfskundige wetenschap", Riemsdijk, M.J. van, (Ed.), Van Gorcum, Assen, pp.69-82 (in Dutch), 1999.

