

# About the Authors

## **Paul Baan**

Paul is a familiar face in the world of enterprise content management and Director at Incentro. This organization is engaged in consultancy and implementation in the fields of enterprise information, business intelligence, content management, and search. Paul is a strong conceptual thinker and is a driving force behind the concept of enterprise information management as the integration of both structured and unstructured information.

## **Robbert Homburg**

Robbert likes to collaborate with a team of coworkers and client employees on projects to enhance the value of information. As a manager he focuses on energy and responsibility. We have to deliver energy all day to add value, and our energy and drive are our most valuable assets. This starts with physical energy by eating sensibly and ends with a mission in life and a clear sense of your added value. Responsibility gives people the space to make decisions and stick to them. Apart from his work as a consultant and manager Robbert spends time on research. His main focus is on the brain and its information-processing power, the last hurdle in information productivity. He thinks we can share information smarter to make better use of our brain's capabilities. Awareness about how information processing works in our brain is a very good first step! Specific knowledge areas: knowledge management, information management, neurosciences, business intelligence, big data, enterprise and Web content management, project management, change management, enterprise2.0, the new world of work, and digitization.

## **Anja van der Lans**

Clients call Anja when they have a problem with information or knowledge in their organization. She consults with them to determine exactly what the problem is, whether she (or a colleague) can solve it, and the best approach to solving it. Depending on the nature of the problem, the assignments Anja gets from clients

vary in size from several days to several months. She is the coauthor of the Dutch version of this book and has written many articles on the subject of search and information retrieval. Specific knowledge areas: business consultancy EIM, change management, workshops, interviews, knowledge management, requirements analysis, business analysis, information analysis, process analyses for information retrieval, search solutions, Web sites, and process-oriented solutions.

### **John Septer**

John specializes in the field of enterprise information management (EIM) and business and ICT alignment as advisor, business analyst, and information architect. To align business and ICT, John uses a varied, organization-focused approach to design or improve information productivity. To create support John focuses on: the involvement of stakeholders, bringing forward recognizable arguments, the removal of uncertainty, and building expertise and skills among the employees involved. Specific knowledge areas: EIM, business and ICT alignment, information management, business analysis, information analysis, enterprise content management.

### **Peter van Til**

Peter is a highly experienced business intelligence consultant. He is the author of several books on business intelligence. What is so special about Peter is that he not only has considerable conceptual knowledge (architecture, modeling, business intelligence competence centers) but also a lot of hands-on experience. Specific knowledge areas: business intelligence, advising, architecture, coaching, information analysis, design, training, business intelligence and data warehouse development.

# Bibliography

- AIIM (Association for Information and Image Management) (2010) [Online]. [www.AIIM.org](http://www.AIIM.org)
- Andrews K (1971) *The concept of corporate strategy*. Irwin, Homewood
- Ariely D (2009) *Predictably irrational, revised and expanded edition: the hidden forces that shape our decisions*. HarperCollins, New York
- Atkinson R (1999) Project management: cost, time and quality, two best guesses and a phenomenon, its time to accept other success criteria. *Int J Proj Manage* 17(6):337–342
- Baan P, van Til P, van der Lans A (2010) *Enterprise information management: de fusie tussen business intelligence, content management en enterprise search*. VLC, Lulu. ISBN 978-1-4457-2910-7
- Bonnati B (2009) *Architettura di Enterprise Information Management* [Online]
- Brynjolfsson E, Hitt L, Kim H (2011) Strength in numbers: how does data-driven decisionmaking affect firm performance? Available at SSRN: <http://ssrn.com/abstract=1819486> or <http://dx.doi.org/10.2139/ssrn.1819486>
- Camerer C, Loewenstein G, Prelec D (2005) Neuroeconomics: how neuroscience can inform economics. *J Econ Lit*. <http://www.hss.caltech.edu/~camerer/JELfinal.pdf>
- Chater N, Lambert K (2001) Big decisions that go wrong – psychologists ask why ignore the research? <http://www2.warwick.ac.uk/newsandevents/pressreleases/ne100000081492/>
- Choo CW (2006) *The knowing organization: how organizations use information to construct meaning, create knowledge, and make decisions*. Oxford University Press, New York
- Collis D, Montgomery CA (1995) Competing on resources: strategy in the 1990s. *Harvard Bus Rev* 73(July–August):118–128
- Davenport TH (2001) *Competing on analytics*. Harvard Business School Press, Boston
- Davenport T (2005) *Thinking for a living: how to get better performances and results from knowledge workers*. Harvard Business School Press, Boston
- Dietz J (1996) *Introductie tot DEMO: van informatietechnologie naar organisatietechnologie*. Samsom BedrijfsInformatie, Alphen aan den Rijn
- Dijksterhuis A (2007) *Het slimme onbewuste*. Bert Bakker, Amsterdam
- Forrester (2009) *The state of workforce technology adoption, US benchmark* [Report]. [s.l.]: Forrester, October 2009
- Freeman M, Beale P (1992) Measuring project success. *Proj Manage J* 23(1):8–17
- Gartner (2007) *Hype cycle for application development* (ID nr. G00147982) [Online]. [www.gartner.com](http://www.gartner.com)
- Gladwell M, Levitt S (2005) *Blink, the power of thinking without thinking*. Little, Brown and Company, New York
- Hamel G (2007) *The future of management*. Harvard Business School Press, Boston
- Hammer M (1990) Reengineering work: don't automate, obliterate. *Harvard Bus Rev* 68 (4, July–August):104–112

- Han J (2006) Data mining, concepts and techniques. Morgan Kaufmann, San Francisco
- Hiinssen P (2010) The new normal. Lannoo, Tiel
- Inmon WH (2001) The corporate information factory. Wiley, New York
- Inmon WH, Nesavich A (2008) Tapping into unstructured data. Prentice Hall, Upper Saddle River
- Inmon William H (2009) The elusive virtual datawarehouse, [www.b-eye-network.cn/view/9956](http://www.b-eye-network.cn/view/9956)
- Jeston J, Nelis J (2006) Business process management: practical guidelines to successful implementations. Butterworth-Heinemann, Burlington
- Kahneman D (2012) Thinking, fast and slow. Farrar, Straus and Giroux, New York
- Kearns GS, Lederer AL (2004) The impact of industry contextual factors on IT focus and the use of IT for competitive advantage. *Inf Manage J* 41:899–919
- Kimball R (1997) A dimensional modeling manifesto. [www.dbmsmag.com/9708d15.html](http://www.dbmsmag.com/9708d15.html)
- Kimball R (1998) Bringing up supermarts. [www.dbmsmag.com/9801d14.html](http://www.dbmsmag.com/9801d14.html)
- Kirby J (2005) Towards a theory of high-performance. *Harvard Bus Rev* 83(7, July–August): 30–39
- Kooij J van der (2009) Soc Bus Intell [Journal]. Database Magazine. pp 22–25
- Kotter J (1995) Leading change. Harvard Business School Press, Boston
- Kotter J (1996) Leading change. Harvard Business School Press, Boston
- Kurweil R (2006) The singularity is near: when humans transcend biology. The Viking Press, New York
- Langseth J (2004) Real-time data warehousing: challenges and solutions. <http://dssresources.com/papers/features/langseth/langseth02082004.html>
- Lans R van der (2009) The flaws of the classic *datawarehouse* architecture [Online]. b-eye-network. April 2009. <http://www.b-eye-network.com/view/9960>
- Larsen KB et al (2011) Factors differentiation concerning information productivity. RSM, Rotterdam
- van der Lek H (2006) Sterren en dimensies. Array Publications, Alphen aan den Rijn
- Leong L, Jarmoszko AT (2010) Analysing capabilities and enterprise strategy: a value proposition framework. *Int J Manage Inf Syst* 14(1):53–59
- Lim CS, Mohamed MZ (1999) Criteria of project success: an exploratory re examination. *Int J Proj Manage* 17(4):243–8
- Logan D, Bill H (2009) Enterprise information management; a requirement for enterprise-scale business intelligence and performance management initiatives [Report]. [s.l.]: Gartner G00169152, 2 July
- Lohr S (2011) When there's no such thing as too much information. The New York Times. [http://www.nytimes.com/2011/04/24/business/24unboxed.html?\\_r=1](http://www.nytimes.com/2011/04/24/business/24unboxed.html?_r=1)
- Manning CD, Raghavan P, Schütze H (2008) Introduction to information retrieval. Cambridge University Press, New York. pp 1–11
- Manyika J, Roberts R, Sprague K (2007) Eight business technology trends to watch, McKinsey Quarterly
- Mehrjerdi YZ (2010) Enterprise resource planning: risk and benefit analysis. *Bus Strateg Ser* 11(5):308–324
- Moore G (1965) Cramming more components onto integrated circuits. *Electronics Magazine*, p 4
- Nesbitt J (1990) Megatrends. New York: Harper & Row
- Open Text Corporation (2005) ECM methods: what you need to know, vol 3. Open Text Corporation, Ontario
- Pascale R (1981) The art of Japanese management. Graduate School of Business, Stanford University
- Peslak A (2003) A firm level study of information technology productivity by industry using financial and market based measures. *J Inform Techno Impact* 3(2):77–90
- Peters T, Waterman R (1982) In search of excellence. HarperCollins, New York
- Pijpers (2011) Het informatie Paradijs Haystack, Zaltbommel
- Pinto JK, Slevin DP (1988) Critical success factors across the project life cycle. *Proj Manage J* 19(3):67

- Porter ME (1985) *Competitive advantage: creating and sustaining superior performance*. The Free Press, New York
- Porter M (1996) What is strategy? *Harvard Bus Rev* 76(November–December):61–78
- Porter M (2008) The five competitive forces that shape strategy. *Harvard Buss Rev* 54(January): 1–18
- Propper I, Litjens B, Weststeijn E (2004a) Lokale regie uit macht of onmacht? <http://www.partnersenpropper.com/upload/artikelen/da7d8457995a3a9df7d358cbdd00a17.pdf>. Accessed 2 Apr 2012
- Pröpper I, Litjens B, Weststeijn E (2004b) Lokale regie uit macht of onmacht? Onderzoek naar de optimalisering van de gemeentelijke regiefunctie. Partners+Propper, Vught
- Ranjan J (2008) Business justification with business intelligence. *J Inf Knowl Manage Syst* 38(4):461–475
- Roberts D (2010) Behavior change causes changes in beliefs, not vice versa. <http://grist.org/politics/2010-11-23-behavior-change-causes-changes-in-beliefs-not-vice-versa/>
- Ross M (2009) The 10 essential rules of dimensional modeling. *Intelligent Enterprise*. [www.intelligententerprise.com/showarticle.jhtml?articleID=217700810](http://www.intelligententerprise.com/showarticle.jhtml?articleID=217700810)
- Smiley D, Pugh E (2009) *Solr 1.4 enterprise search*. Server Book Packt Publishing, Birmingham
- Strassman P (1999) *Information productivity: assessing information management costs of U. S. Corporations*. Information Economics Press, New Canaan
- Strassman P (2006) 5 steps to improve your information productivity. *Baseline Magazine*. <http://www.baselinemag.com/c/a/Projects-Management/5-Steps-to-Improve-Your-Information-Productivity/>
- Strassmann PA (2004) *Defining and measuring information productivity*. The Information Economic Press, version 2.0, January 2004
- Strassmann PA (2010) Strassmann, INC. Biography. Accessed 07 Dec 2011 from <http://www.strassmann.com/bio.php>
- Tracey M, Wiersema F (1995) *De discipline van marktleiders: Kies uw klanten, verklein uw focus en domineer uw markt*. Scriptum Books, Schiedam
- Wateridge J (1998) How can IS/IT projects be measured for success. *Int J Proj Manage* 16(1):59–63
- Weggeman M (2000) *Kennismanagement: de praktijk*. Scriptum, Schiedam
- Zimmermann M (1989) The nervous system in the context of information theory. In: Schmidt RF, Thews G (eds) *Human physiology*. Springer, Berlin, pp 166–173

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