**Curriculum Vita Kjell Hausken,** http://www6.uis.no/ansatt/hausken January 11, 2022

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# Education and professional affiliations

1. M.Sc. Engineering (Sivilingeniør), electrical, cybernetics, Norwegian University of Science and Techrnology (NTNU), (Norges teknisk-naturvitenskapelige universitet) Dec. 1983, Teaching Ass. in Mathematics Sep. 1981-Jun. 1982, Thesis at Norwegian Defence Research Establishment (NDRE), “Nonlinear Bayes Estimation,” Aug.-Dec. 1983 (Oddvar Hallingstad, Ole Solheim). Grade 1.0 (A) in mathematics, probability theory and statistics, grade 1.75 on MSc thesis, grade 1.88 on average, scale 1-6.
2. Minor, Public Law (Offentlig rett grunnfag), University of Oslo (UiO), Dec. 1984.
3. Military Service, Norwegian Defence Research Establishment (NDRE) (Forsvarets Forskningsinstitutt= FFI), Fortran programming on Nord 10, VAX 11/750, ND-500, design of interactive simulation programs, modelling dynamic systems, simulation of target tracking problems, fight between attacking airplanes and defending Hawk, L70, Feb. 1984-Apr. 1985. Spokesman for 40 soldiers. Teaching mathematics recruit period Jan-Feb. 1984.
4. Field Engineer, Schlumberger Overseas S.A., Oil Well Logging, Feb.-Mar. 1986, Oman, Egypt.
5. Doctorate Program Degree (Høyere Avdelings Eksamen), Norwegian School of Economics and Business Administration (NSEBA) (Norges Handelshøyskole=NHH), Administration, Aug. 1986-Aug. 1991, Thesis “Philosophical, Behavioral, and Gametheoretic Negotiation Theory” (Terje Lensberg, Aanund Hylland, Joern Rognes). (“The Doctorate Program includes approximately two years of <Ph.D.> course work followed by a comprehensive examination and a written <half-year> research paper. For those who wish to take a Ph.D., there is an additional requirement of a dissertation.”). 11 PhD courses: 6 A’s (7), 5 Pass, scale 9-0.
6. Visiting Scholar, Yale University, School of Organization and Management, Jan. 1989-May 1990, Game Theory (Peter Cramton), Principal-Agent Theory (Bengt Holmstrom), Stochastic Theory (Offer Kella). 3 PhD courses: 1 A, 2 B’s.
7. Ph.D, University of Chicago, Committee on the Conceptual Foundations of Science, Sep. 1990-Dec. 1994, “Dynamic Multilevel Game Theory” (William C. Wimsatt, Howard Margolis, Daniel Garber). 17 PhD courses: 9 A’s, 4 B’s, 4 Pass. 31 PhD courses were completed within the social, humanistic, natural, and physical sciences by 1992: 16 A’s, 6 B’s, 9 Pass.
8. Postdoctoral Fellow (Postdoktorstipendiat), Max Planck Institute for the Study of Societies, Cologne, Germany, Jan. 1, 1995-December 31, 1997. (Fritz W. Scharpf).
9. Associate Professor, Faculty of Science and Technology, University of Stavanger, 4036 Stavanger, Norway, Feb. 22, 1999-Oct. 20, 1999.
10. Professor, Faculty of Science and Technology, University of Stavanger, 4036 Stavanger, Norway, Oct. 20, 1999-present.

# Research fields

Risk analysis, strategic interaction, game theory, societal safety, economics, economic risk management, political economy, information security, public choice, conflict, reliability, war, crime, terrorism, disaster prevention, stochastic theory, dynamics, philosophy.

**JEL classifications**

C02, C15, C44, C60, C61, C68, C70, C71, C72, C73, C78, C80, D21, D50, D51, D60, D63, D7, D72, D74, D8, D80, D86, D90, F10, L20, L24.

**Books with ISSN/ISBN**

Hausken, K. and Ncube, M. (2014), Quantitative Easing and its Impact in the US, Japan, the UK and Europe, ISBN 978-1-4614-9645-8 (Print), ISBN 978-1-4614-9646-5 (Ebook), Springer, New York, doi: 10.1007/978-1-4614-9646-5.

Hausken, K. and Zhuang, J. (2015, eds.). Game Theoretic Analysis of Congestion, Safety and Security: Traffic and Transportation Theory, Springer, New York, ISSN 1614-7839, ISSN 2196-999X (electronic), ISBN 978-3-319-11673-0 (print book), ISBN 978-3-319-11674-7 (eBook), doi: 10.1007/978-3-319-11674-7.

Hausken, K. and Zhuang, J. (2015, eds.). Game Theoretic Analysis of Congestion, Safety and Security: Networks, Air Traffic and Emergency Departments, Springer, New York, ISSN 1614-7839, ISSN 2196-999X (electronic), ISBN 978-3-319-13008-8 (print book), ISBN 978-3-319-13009-5 (eBook), doi: 10.1007/978-3-319-13009-5.

**Peer reviewed publications with ISSN/ISBN** (†: supervised PhD student)

1. Hausken, K. (1995), “Intra-level and Inter-level Interaction,” Rationality and Society 7, 4, 465-488.
2. Hausken, K. (1995), “Krieg, Ethik und Politiken (War, Ethics and Politics),” Berliner Debatte Initial: Zeitschrift fuer Sozialwissenschaftlichen Diskurs 6, 79-88.
3. Hausken, K. (1995), “The Dynamics of Within-Group and Between-Group Interaction,” Journal of Mathematical Economics 24, 7, 655-687.
4. Hausken, K. (1996), “Ethics and Efficiency in Organizations,” International Journal of Social Economics 23, 9, 15-40.
5. Hausken, K. (1996), “Self-Interest and Sympathy in Economic Behavior,” International Journal of Social Economics 23, 7, 4-24.
6. Hausken, K. and Pluemper, T. (1996), “Hegemonic Decline and International Leadership,” Politics and Society 24, 3, 273-295.
7. Hausken, K. (1997), “Game-Theoretic and Behavioral Negotiation Theory,” Group Decision and Negotiation 6, 6, 509-527.
8. Hausken, K. and Pluemper, T. (1997), “Hegemons, Leaders and Followers: A Game-Theoretic Approach to the Postwar Dynamics of International Political Economy,” Journal of World-Systems Research 3, 1, 35-93, http://dx.doi.org/10.5195/jwsr.1997.118.
9. Hausken, K. (1998), “Collective Rent Seeking and Division of Labor,” European Journal of Political Economy 14, 4, 739-768.
10. Hausken, K. and Pluemper, T. (1999), “The Impact of Actor Heterogeneity on the Provision of International Public Goods,” International Interactions 25, 1, 1-34.
11. Hausken, K. (2000), “Cooperation and Between-Group Competition,” Journal of Economic Behavior and Organization 42, 3, 417-425.
12. Hausken, K. (2000), “Migration and Intergroup Conflict,” Economics Letters 69, 3, 327-331.
13. Hausken, K. and Moxnes, J.F. (2000), “The Microfoundations of the Lanchester War Equations,” Military Operations Research 5, 3, 79-99.
14. Hausken, K. and Mohr, M. (2001), “The Value of a Player in n-Person Games,” Social Choice and Welfare 18, 3, 465-483.
15. Hausken, K. and Moxnes, J.F. (2001), “Behaviorist Stochastic Modeling of Instrumental Learning,” Behavioural Processes 56, 2, 121-129.
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17. Hausken, K. and Pluemper, T. (2002), “Containing Contagious Financial Crises: The Political Economy of Joint Intervention into the Asian Crisis,” Public Choice 111, 3-4, 209-236.
18. Hausken, K. and Moxnes, J.F. (2002), “Stochastic Conditional and Unconditional Warfare,” European Journal of Operational Research 140, 1, 61-87.
19. Moxnes, J.F. and Hausken, K. (2003), “Predicting the Concentration Level of Anti-Cancer Drug during Treatment of a Living Organism,” Medical Hypotheses 60, 4, 498-500.
20. Hausken, K. (2004), “Mutual Raiding of Production and the Emergence of Exchange,” Economic Inquiry 42, 4, 572-586.
21. Hausken, K. and Cressman, R. (2004), “Formalization of Multi-Level Games,” International Game Theory Review 6, 2, 195-221.
22. Hausken, K. and Hirshleifer, J. (2004), “The Truthful Signalling Hypothesis: An Explicit General Equilibrium Model,” Journal of Theoretical Biology 228, 4, 497-511.
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25. Hausken, K. (2005), “Production and Conflict Models Versus Rent Seeking Models,” Public Choice 123, 1, 59-93.
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35. Hausken, K. (2006), “Returns to Information Security Investment: The Effect of Alternative Information Security Breach Functions on Optimal Investment and Sensitivity to Vulnerability,” Information Systems Frontiers 8, 5, 338-349.
36. Hausken, K. (2006), “The Stability of Anarchy and Breakdown of Production,” Defence and Peace Economics 17, 6, 589-603.
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62. Hausken, K. (2009), “Strategic Defense and Attack of Complex Networks,” International Journal of Performability Engineering 5, 1, 13-30.
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66. Hausken, K. and Levitin, G. (2009), “Protection vs. False Targets in Series Systems,” Reliability Engineering & System Safety 94, 5, 973-981.
67. Hausken, K. and Levitin, G. (2009), “Protection vs. Separation in Parallel Non-Homogeneous Systems,” International Journal of Reliability and Quality Performance 1, 1, 11-28.
68. Levitin, G. and Hausken, K. (2009), “False Targets Efficiency in Defense Strategy,” European Journal of Operational Research 194, 1, 155-162.
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80. Bhimani, A., Hausken, K., and Ncube, M. (2010), “Agent Takeover Risk of Principal in Outsourcing Relationships,” Global Business and Economics Review 12, 4, 329-340.
81. Hausken, K. (2010), “Defense and Attack of Complex and Dependent Systems,” Reliability Engineering & System Safety 95, 1, 29-42.
82. Hausken, K. (2010), “Risk, Price, and Reimbursement,” International Journal of Decision Sciences, Risk and Management 2, 1/2, 85-97.
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85. Hausken, K. (2010), “Whether to Attack Growing Assets and Enterprises Today or Tomorrow,” International Journal of Business Continuity and Risk Management 1, 4, 339-362.
86. Hausken, K. and Knutsen, J.F. (2010), “An Enabling Mechanism for the Creation, Adjustment, and Dissolution of States and Governmental Units,” Economics: The Open-Access, Open-Assessment E-Journal, Vol. 4, 2010-32. doi: 10.5018/economics-ejournal.ja.2010-32, http://dx.doi.org/10.5018/economics-ejournal.ja.2010-32.
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88. Hausken, K. and Levitin, G. (2010), “Two Sequential Attacks of a Parallel System when Defense and Attack Resources are Expendable,” International Journal of Performability Engineering 6, 4, 343-354.
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90. Hausken, K. and Tomasgaard, A. (2010), “Evaluating Performance Training and Step Aerobics in Intervals,” International Journal of Performance Analysis in Sport 10, 3, 279-294.
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92. Levitin, G. and Hausken, K. (2010), “Influence of Attacker's Target Recognition Ability on Defense Strategy in Homogeneous Parallel Systems,” Reliability Engineering & System Safety 95, 5, 565-572.
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94. Levitin, G. and Hausken, K. (2010), “Resource Distribution in Multiple Attacks Against a Single Target,” Risk Analysis 30, 8, 1231-1239.
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Hausken, K. (2021), “Security Investment, Interdependence, Attack and Information Sharing,” in Jajodia, S., Samarati P., Yung M. (eds.), Encyclopedia of Cryptography, Security and Privacy, Springer, Berlin, Heidelberg, chapter ?, pages zz-zz, https://doi.org/10.1007/978-3-642-27739-9\_1656-1.

**Peer reviewed proceedings without ISSN/ISBN**

1. Hausken, K. (2007), “Strategic Defense and Attack of Complex Networks,” Proceedings of the 6th Workshop on the Economics of Information Security, Pittsburgh, June 7-8, <http://weis2007.econinfosec.org/program.htm>.

**Popularization**

Hausken, K. and (2011), “Effektiv trening som brenner kalorier,» Dagens Næringsliv, January 11, 2011, <https://www.dn.no/trening/effektiv-trening-som-brenner-kalorier/1-1-1592917>.

Hausken, K. and (2020), “Understanding Physiology Could Give More Athletes a Chance of Olympic Glory,” Research Features Magazine, ISSN 2399-1542, issue 133, pages 6-9, November 30, <https://researchfeatures.com/understanding-physiology-could-give-more-athletes-chance-olympic-glory/>.

Hausken, K. and Tomasgaard, A. (2020), “Step Aerobics and Strength Training: The Perfect Combination?,” Research Features Magazine, ISSN 2399-1542, issue 133, pages 10-13, November 30, <https://researchfeatures.com/step-aerobics-strength-training-perfect-combination-energy-expenditure/>.

Hausken, K. (2021), “Determining Energy Expenditure,” Open Access Government, ISSN 2516-3817, October 8, pages 312-313, <https://edition.pagesuite-professional.co.uk/html5/reader/production/default.aspx?pubname=&edid=eaaa2691-f2e2-4ecd-9e5e-f2985210b663&pnum=312> .

**Work in progress**

1. Asea, P., Hausken, K, and Ncube, M. (2022), “Autocratic Elections,” in progress.
2. Bhimani, A., Hausken, K., and Ncube, M. (2022), “Institutions, Growth, Entrepreneurship and Poverty,” in progress.
3. Bhimani, A., Hausken, K., and Ncube, M. (2022), “On the Role of Cyber Security,” in progress.
4. Bhimani, A., Hausken, K., and Ncube, M. (2022), “Organizational Design, Stability and Risk,” in progress.
5. Bhimani, A., Hausken, K., and Ncube, M. (2022), “The Emerging Infrastructure of Mobilephone Banking in Africa,” in progress.
6. Drottz-Sjöberg, B.M. and Hausken, K. (2022), “Consequences, Probabilities, and Risk in Risk Research,” Ms.
7. Hausken, K. and Ncube, M. (2022), “Institutions, Growth and Poverty in Africa,” in progress.
8. Hausken, K. and Ncube, M. (2022), “International Intervention to Bail out Governments Attacked by Terrorists,” in progress.
9. Hausken, K. and Ncube, M. (2022), “Making or Preventing a Revolution,” in progress.
10. Hausken, K. and Ncube, M. (2022), “Quantitative Easing and Its Impact in the US, Japan, the UK and Europe,” in progress.
11. Hausken, K. and Ncube, M. (2022), “Quantitative Easing, Global Economic Crisis and Market Response,” in progress.
12. Hausken, K. and Ncube, M. (2022), “Rent Seeking versus Monitoring,” in progress.
13. Hausken, K. and Ncube, M. (2022), “Quantitative Easing, Global Economic Crisis and Market Response,” in progress.
14. Hausken, K. and Ortmann, A. (2022), “Experimental Tests of Multilevel Game Theory: The Repeated BoS/Chicken Cases.”
15. Wang, G.† and Hausken, K. (2022), “A Bitcoin Price Prediction Model Assuming Oscillatory Growth and Lengthening Cycles,” Manuscript, University of Stavanger.
16. Wang, G.† and Hausken, K. (2022), “A Game Between Central Banks and Households Involving Central Bank Digital Currencies, Other Digital Currencies and Negative Interest Rates,” Manuscript, University of Stavanger.
17. Wang, G.† and Hausken, K. (2022), “A Game Theoretic Model of Central Bank Digital Currencies, Cryptocurrencies and Assets,” Manuscript, University of Stavanger (in progress).
18. Wang, G.† and Hausken, K. (2022), “Competition Between National and Global Currencies: Conventionalists, Pioneers and Criminals,” Manuscript, University of Stavanger.

# Working papers

1. Hausken, K. (1985), “Estimation of Minimum Flying Height for Penguin Over Sea,” Confidential Report, Norwegian Defence Research Establishment.
2. Hausken, K. (1992), “A Cataloguing History of Equilibrium Theory within 12 Academic Disciplines for the Ancient Greek Period, Chinese Thought, the Medieval Arabic Period, the Renaissance Period, and Modern Time,” Ms., University of Stavanger.
3. Hausken, K. (1992), “A Formal Apparatus for Reductionism and Emergentism,” Ms., University of Stavanger.
4. Hausken, K. (1992), “A Mathematical Essay on Evolutionary Non-Progress,” Ms., University of Stavanger.
5. Hausken, K. (1992), “Kantian and Nietzschean Ethics,” Ms., University of Stavanger.
6. Hausken, K. (1992), “Radical Materialism and the Mind-Body Problem,” Ms., University of Stavanger.
7. Hausken, K. (1992), “Social Darwinism and Its Scientific Status,” Ms., University of Stavanger.
8. Hausken, K. (1992), “The Conceptual Foundations of Economics,” Ms., University of Stavanger.
9. Mohr, M. and Hausken, K. (1996), “Conflict, Interest and Strategy: A Risk-Limit Approach to Conflict,” Max Planck Institute for the Study of Societies, Discussion Paper 96/7.
10. Hausken, K., Levi, M., and Miller, S. (1997), “The Dynamics of Contingent Consent,” Ms., Max Planck Institute for the Study of Societies, Cologne, Germany.
11. Coen, D. and Hausken, K. (1998), “Forum Politics: An Institutional Game Between Firms and the European Commission,” Working Paper 66/1999, University of Stavanger.
12. Hausken, K. (1999), “Collective Rent Seeking and Risk Aversion,” Working Paper 63/1999, University of Stavanger.
13. Mohr, M. and Hausken, K. (1999), “The Dark Shadow of the Future: A Risk-Limit Approach to Conflict, Interest, and Strategy,” Working Paper 67/1999, University of Stavanger.
14. Hausken, K. (2002), “Risk Management, Decision Theory, and Game Theory,” Working Paper 106/2002, University of Stavanger.
15. Hausken, K. (2003), “Risk, Production, and Conflict,” Working Paper 126/2003, University of Stavanger.
16. Hausken, K., Pluemper, T., and Schneider, G. (2003), “The Trilemma of the Protectionist Autocrat: An Assessment of the Political Determinants of Foreign Economic Liberalization,” Working Paper #120/2003, University of Stavanger.
17. Hausken, K. (2004), “Tradeoffs Between Price, Risk, Terrorism, Privacy, and Civil Liberties,” Working Paper 134/2004, University of Stavanger.
18. Hausken, K. (2005), “Group Size and Conflict: The Paradox and Nonparadox of Power,” Working Paper 10/2005, University of Stavanger, ISSN 1504-4939, ISBN 82-7644-280-3.
19. Hausken, K., Mattli, W., and Pluemper, T. (2006), “The Political Economy of International Unions,” Working paper 13/2006, University of Stavanger, ISBN 82-7644-288-9, ISSN 1504-4939.
20. Sund, K.A. and Hausken, K. (2009), “Fixed Price Contract Versus Incentive Based Contract in the Oil Industry,” Report 31/2009, University of Stavanger, ISBN 9788276443851.

### Editorial duties

Defence and Peace Economics, Editorial Board, https://www.tandfonline.com/toc/gdpe20/current: December 4, 2007-December 31, 2015.

International Game Theory Review, Area Editor for Game Theory and Applications, https://www.worldscientific.com/page/igtr/editorial-board: February 4, 2021-

Reliability Engineering & System Safety, editorial board, http://www.journals.elsevier.com/reliability-engineering-and-system-safety/: January 17, 2012 -

Theory and Decision, Coordinating Editor, https://www.springer.com/journal/11238: May 20, 2007 -

**Associations**

Member of ESRA Technical Committee on System Reliability, http://www.esrahomepage.org/technical.aspx : 2007 -

**Review of research proposals**

Expert evaluator for the Research Executive Agency (created by the European Commission), REA A1.002-COV2 13/143, BE-1049 Brussels, Belgium, Security Research, FP7-SEC-2011, November 23, 2010-March 31, 2011, 13 proposals + final panel meeting February 17, 2011.

Expert evaluator for the Research Executive Agency (created by the European Commission), BE-1049 Brussels, Belgium, Marie Sklodowska-Curie Actions, FP7-PEOPLE-2013-IEF, FP7-PEOPLE-2013-IIF, FP7-PEOPLE-2013-IOF, FP7-SEC-2011, August 30, 2013-November 30, 2013, 20 proposals.

Expert evaluator for the Research Executive Agency (created by the European Commission), BE-1049 Brussels, Belgium, H2020 Secure Societies Calls 2014-2015, H2020-DRS-2014, H2020-BES-2014, H2020-FCT-2014, Contract Number-CT-EX2006C102462-104, September 5, 2014-October 24, 2014, 3 proposals.

Expert evaluator for the Research Executive Agency (created by the European Commission), BE-1049 Brussels, Belgium, Marie Sklodowska-Curie Actions, H2020-MSCA-IF-2014, September 16, 2014-November 21, 2014, 24 proposals.

Expert evaluator for the Research Executive Agency (created by the European Commission), BE-1049 Brussels, Belgium, H2020 Secure Societies Calls 2016-2017, CIP-2016-2017-1, H2020SEC-2016-2017-1, H2020-DS-SC7-2016, Contract Number-CT-EX2006C102462-106, September 12, 2016-October 21, 2016, 7 proposals + final DS-04 panel meeting October 12, 2016.

Review of one NSF proposal.

Reviewer for The Netherlands Organisation for Scientific Research, VENI grant, NWO Talent Programme, February 11-March 20, 2020.

**Program committees**

GAMESEC 2012-2012 Conference on Decision and Game Theory for Security, Budapest, Hungary on 5-6 November 2012.

**Review of research**

I have peer reviewed articles for Advances in Operations Research, African Development Review, American Economic Review (3), American Political Science Review (3), Annals of Emerging Research in Information Assurance, Annals of Operations Research (3), Security and Privacy Services, Applied Financial Economics, Applied Stochastic Models in Business and Industry, Business & Information Systems Engineering, Computational Economics, Computer Methods in Biomechanics and Biomedical Engineering, Conflict Management and Peace Science, Decision Analysis (10), Decision Sciences, Defence and Peace Economics (5), Eastern Economic Journal, Econometrica, Economic Inquiry (3), Economic Journal, Economic Modelling (2), Economics of Governance (2), Energy, Energy Strategy Reviews, ESREL (1), European Journal of Operational Research (37), European Journal of Political Economy (7), Frontiers in Psychology, section Movement Science and Sport Psychology, Future Internet, Games (5), Games and Economic Behavior (3), Group Decision and Negotiation, IEEE Transactions on Reliability (7), IEEE Transactions on Systems, Man and Cybernetics: Systems (3), IISE Transactions (2), Information Processing Letters, Information Systems Frontiers (4), Information Systems Research, International Economics and Economic Policy, International Game Theory Review (3), International Journal of Conflict Management (5), International Journal of Development Issues, International Journal of Game Theory, International Journal of Critical Infrastructure Protection (3), International Journal of Critical Infrastructures, International Journal of Law, Crime and Justice, International Journal of Performability Engineering (2), International Journal of Production Research, International Journal of Sports Medicine, International Political Science Review (2), International Transactions in Operational Research, das Jahrbuch fuer Handlungs- und Entscheidungstheorie, Journal of Bioeconomics, Journal of Conflict Resolution (3), Journal of Economic Behavior and Organization, Journal of Economic Dynamics and Control, Journal of Economic Studies (2), Journal of Mathematical Sociology, Journal of Information Security (3), Journal of Peace Research (2), Journal of Political Economy, Journal of Public Economics (2), Journal of Sport and Health Science, Journal of the Operational Research Society (11), Journal of Strategic Information Systems, Journal of Theoretical Biology (2), Management Accounting Research, Management Science (2), Mathematics of Operations Research, Military Operations Research, Management Information Systems Quarterly (2), Operational Research, Operations Research (3), Operations Research and Decisions, Oxford Economic Papers, PLOS ONE, Production and Operations Management, Public Choice (9), Rationality and Society, Reliability Engineering & System Safety (100), Resource and Energy Economics, Review of Development Economics, Risk Analysis (42), Scandinavian Journal of Economics, Scientometrics, Scottish Journal of Political Economy, Social Choice and Welfare, Socio-Economic Planning Sciences, Springer, Symmetry, The Lancet, Theoretical Economics, Theoretical Population Biology, Theory and Decision (93), the Max Planck Institute Discussion Paper Series, one NSF proposal, and for conventional evaluation purposes.

**Review of research for edited books**

Lisnianski, L., Frenkel, I. and Karagrigoriou, A. (2017), Recent Advances in Multi-state System Reliability. Theory and Applications, Springer, New York.

**Review of papers submitted to conferences**

2016 IEEE International Conference on Multisensor Fusion and Integration for Intelligent Systems, September 19-21, Baden-Baden, Germany.

# Main PhD dissertation advisor for

Kjærland, Maria: “Cyber Incident Risk Profiling: Applying Systematic Profiling for Assessing Information Systems Security Risks.” Started April 1, 2003. Defense April 27, 2007, ITAKT prize 2006, www.itakt.no.

Osmundsen, Dag: “The Logic of Digital Business Valued as Real Options.” Started May 1, 2006. In progress.

Storm, Marianne: “Service user involvement in in-patient mental health services.” Supervision started April 24, 2007. Defense January 28, 2011.

Heggland, Liv-Helen: “Patient Participation in Decision Making in Surgical Treatment.” Supervision started April 24, 2007. Defense April 12, 2013.

Wang, Guizhou: “Game Theoretic Modeling of Economic Systems under Central Bank Digital Currency.” Supervision started June 21, 2020.

# Co PhD dissertation advisor for

Sund, Knut Arne: “Change Management and Integrated Operations in the Oil Industry,” May 5, 2007-October 5, 2010. Defense June 16, 2011.

**Advisor for PhD students at other institutions**

Welburn, Jonathan William: “Essays on Global Economic Risk.” Supervision started November 29, 2011. Defense December 9, 2016 at 17:30-19:26 GMT+1 at the University of Wisconsin-Madison with Kjell Hausken participating by Skype from Norway. The University of Wisconsin-Madison awarded the PhD. Dissertation committee: Oguzhan Alagoz, Vicki Bier, Kjell Hausken, Menzie Chinn, Thomas Rutherford. Jonathan visited UiS and lived in Stavanger June 6-October 20, 2012 on a National Science Foundation-Research Council of Norway Nordic Research Opportunity Grant.

**Honors and awards**

Recipient of Lyse's Research Prize for 2007, awarded October 28, 2008.

# Teaching and seminar responsibilities

Responsible for PhD seminar “Risk Management, Societal Safety, and Leadership”, December 18, 2007-February 10, 2009

Teaching 50% of course ØK 142 Research Methods (4 credit points) spring semester 2000 (6 months).

Teaching 100% of course ØK 142 Research Methods (4 credit points) spring semester 2001 (6 months).

(10 credit points correspond to 6 months of full time study.)

Student evaluations on average rank my teaching with the number 5 on a scale from 6 (best) to 1 (worst).

# Scholarships

NSEBA Scholarship Aug. 1987-Dec. 1988, Norwegian Government NAVF Scholarship Aug. 1988-Dec. 1989 and Jan. 1991-Dec. 1992, University of Chicago Scholarship Jan. 1993->.

# Languages

I write and speak fluent English, German, Norwegian. I studied French 2 years in high school.

# Programming and computer simulation skills

Fortran, Pascal, Mathematica (http://www.wolfram.com), Scientific Workplace.

# Extracurricular activities

NDRE Spokesman for 40 soldiers Aug. 1984-Apr. 1985, NSEBA Doctorate Program representative in a committee to determine the “course profile” for the B.B.A. program (siviløkonomstudiet) Oct. 1986-Jun. 1987.

**Interests**

I enjoy working out at the gym, since grade school about 3-7 times per week, typically focusing on activities that build stamina, perseverance, and endurance. I hold a blue/violet belt in karate. I instruct step aerobics and bodypump, am Les Mills certified instructor in bodystep in 2006, have completed instructor course in bodyattack in 2007, and have completed the instructor course in TRX in 2012. Two-three weeks per summer and one week per winter, since grade school, I usually spend mountaineering, canoeing, kajaking, rafting, cross-country skiing, down-hill skiing, in Canada, the Rocky Mountains, the north East U.S., the Andes mountains, the Alps, Europe, Scandinavia, or Island. I have visited theatres and museums in most parts of the world, and enjoy music. I have been fortunate enough to live and work in Norway, the U.S., and Germany, which have provided fruitful social and cultural experiences.

**31 PhD courses**

Norwegian School of Economics and Business Administration (11 PhD courses):

AK01 Decisionmaking in Organizations (Beslutningsatferd i organisasjoner, Greve, 1987) 7

AM01 The Methodology of Social Sciences (Samf.vit.sk. met., Grønhaug, Autumn 1986) 7

AK02 Theories of Science (Vitenskapsteori og teorievaluering, Troye, 1986-1988) 7

AF01 Economic and Managerial Ethics (Foretaks/Forvaltn.etikk, Langholm, Spring 1987) 7

AF01 Organization Theory (Administrasjons- og organisasjonsteori, Greve, 1987) 7

AF04 Organizational Behaviour (Organisasjonspsykologi og -sosiologi, Rognes, 1987) 7

AF05 Executive Support Systems (Ledelsesinformasjonssystemer, Methlie, 1986-1988) P

BK02 Decision Analysis (Beslutnings- og informasjonsanalyse, Lensberg, 1986-1988) P

AF02 Interorganizational Relations (Interorganisatoriske relasjoner, Reve, 1987) P

AF06 Leadership Theories and Leadership Research, Baklien, 1986-1988 P

SF07 Game Theory (Spillteori, Lensberg, 1986-1988) P

Yale University, School of Organization and Management (3 PhD courses):

OR/MS 534b Stochastic Processes (Offer Kella, Spring 1989) High Pass

OR/MS 554b Theory of Choice II (Peter Cramton, Spring 1989) Honors

ECON 521b Advanced Microeconomic Theory II (Bengt Holmstrom, Spring 1989) High Pass

University of Chicago (17 PhD courses):

CFS 394 Contextualization of Anthropological Knowledge (Stocking, Winter 1991) B

PHILOS 231 History of Analytical Philosophy (Linsky, Winter 1991) A

POLSCI 266 Origins of Modern Wars (Walt, Winter 1991) A-

PUBPOL 316 Politics and Policy (Margolis, Winter 1991) A

CFS 364 Continental Rationalism (Garber, Spring 1991) A

CFS 372 Philosophy of History (Richards, Spring 1991) A-

CFS 418 Methodological Orientation (Richards et al., Spring 1991) P

CFS 387 British Empiricists (Jesseph, Autumn 1991) B

CFS 418 Methodological Orientation (Richards et al., Autumn 1991) P

CFS 427 Philosophy of Mathematics (Tait, Autumn 1991) A-

PHILOS 333 Philosophy of Language (Stern, Autumn 1991) B-

CFS 354 Foundations of General Relativity-I (Malament, Winter 1992) P

CFS 377 Philosophy of the Social Sciences (Wimsatt, Winter 1992) A-

CFS 348 Evolutionary Processes (Van Valen, Spring 1992) A

CFS 369 Linguistics and Philosophy of Science (McCawley, Spring 1992) B+

CFS 404 (PHILOS 330) Philosophy of Mind (McClamrock, Spring 1992) P

CFS 420 From Social Darwinism to Sociobiology-I (Richards, Autumn 1992) A-

# Invited lectures

University of Chicago: May 13, 1994: “Intra-level and Inter-level Interaction” (James Coleman).

University of Dortmund: April 22, 1996: “The Technology of Conflict in a Dynamic Multi-Group Environment,” “Leadership Struggle and Intergroup Competition” (Wolfgang Leininger).

Humboldt-University at Berlin: July 3, 1996: “The Technology of Conflict in a Dynamic Multi-Group Environment,” “Leadership Struggle and Intergroup Competition,” “Repeated Within-Group Games with Discounting in a Multi-Group Environment” (Werner Gueth).

Norwegian School of Management, Oslo: December 2, 1998: “Contest Theory and Division of Labor” (Julian Manning, Espen Moen, Christian Riis).

University of Stavanger: February 11, 1999: “The Free-Rider Dilemma in a New Perspective” (Petter Osmundsen, Ragnar Tveteras).

University of Stavanger: August 18, 1999: “Resilience Management” (Erik Leif Eriksen, Turid Myhra, Israeli Supreme Emergency Economy Board).

University of Stavanger: March 21, 2000: “A Foundationally Simple Predictive Economic Model of Crime” (Jens Petter Gitlesen, Knud Knudsen).

University of Stavanger: April 11, 2000: “Resilience Management and Game Theory” (Terje Aven, Ove Njå, Kjell Harald Olsen, Kjell Sandve).

University of Stavanger: December 6, 2000: “Can Accidents be Prevented in Highly Technological Systems?”

University of Stavanger: April 19, 2007: “Game Theory and Risk Analysis.”

University of Stavanger: January 19, 2017: “The Precautionary Principle and Strategic Interaction.”

# Conferences

The Harvard/MIT RTG Political Economy Workshop, February 1996: “How Trust Facilitates Democracy: The Dynamics of Contingent Consent” (with Margaret Levi).

The European University Institute Robert Schuman Centre, March 1996: “How Trust Facilitates Democracy: The Dynamics of Contingent Consent” (with Margaret Levi).

Russell Sage Foundation Workshop on Trust, New York City, April 11, 1996: “How Trust Facilitates Democracy: The Dynamics of Contingent Consent” (with Margaret Levi).

The N.N. Vorob'ev Memorial Conference on Game Theory and Economics at the Saint-Petersburg Institute for Economics and Mathematics, Russian Academy of Sciences, St. Petersburg, June 27-30, 1996: “Repeated Within-Group Games with Discounting in a Multi-Group Environment.”

The Seventh Stony Brook Summer Festival on Game Theory, the Annual International Conference on Game Theory, the State University of New York at Stony Brook, New York, July 14-July 23, 1996: “Repeated Within-Group Games with Discounting in a Multi-Group Environment.”

The European Economic Association Meeting, Istanbul, Turkey, August 21-24, 1996: “Leadership Struggle and Intergroup Competition.”

The Econometric Society European Meeting, Istanbul, Turkey, August 25-29, 1996: “Leadership Struggle and Intergroup Competition.”

The James Coleman Memorial Conference, the Reimers Stiftung, Bad Homburg, Germany, October 31-November 2, 1996: “The Value of a Player in n-Person Games” (with Matthias Mohr).

University of California Los Angeles, Los Angeles, April 24-26, 2003, Analyzing Conflict: Insights from the Natural and Social Sciences (Jack Hirshleifer, UCLA; Rob Boyd, UCLA; Paul J. Zak, Claremont Graduate University; Greg Hildebrandt, RAND), “Mutual Raiding and the Emergence of Exchange,” http://fac.cgu.edu/~zakp/conferences/AC.html

CERGE-EI, Prague, Czech Republic, October 14-16, 2004, Experimental Game Theory, GEW Tagung (Dirk Engelmann, Andreas Ortmann), “Experimental Testing of Multilevel Games” (with Andreas Ortmann), http://www.cerge-ei.cz/multiversity/gew/Program.asp

University of Maryland, Robert H. Smith School of Business, May 26, 2005, Forum titled: “Financial Information Systems and Cyber Security: A Public Policy Perspective” (Lawrence A. Gordon, Martin P. Loeb, William Lucyshyn), “Income, Substitution, and Interdependence Effects Affecting Incentives for Security Investment and Sharing Security Information.”

University of California Los Angeles, Los Angeles, March 10-11, 2006, Conference in honor of Jack Hirshleifer (David Levine), “An Equilibrium Model of Signaling, Production, and Exchange”.

University of Maryland, Robert H. Smith School of Business, May 24, 2006, Forum titled: “Financial Information Systems and Cyber Security: A Public Policy Perspective.” “Information Sharing and Cyber Attacks,” (Lawrence A. Gordon, Martin P. Loeb, William Lucyshyn).

University of Texas at Dallas, The School of Management, May 21-22, 2007, Decision and Risk Analysis Conference, “Defending Against Terrorism, Natural Disaster, and All Hazards,” http://som.utdallas.edu/risk2007, (Alain Bensoussan, Elisabeth Pate Cornell).

University of Maryland, Robert H. Smith School of Business, May 23, 2007, Forum titled: “Financial Information Systems and Cyber Security: A Public Policy Perspective.” “Strategic Defense and Attack for Reliability Systems,” (Lawrence A. Gordon, Martin P. Loeb, William Lucyshyn).

Carnegie Mellon University, 6th Workshop on the Economics of Information Security, June 7-8, 2007, “Strategic Defense and Attack for Reliability Systems,” http://weis2007.econinfosec.org.

University of Stavanger, 18th European Safety and Reliability Conference (ESREL), “Protecting Infrastructures from Strategic Attackers,” Stavanger, June 25-27, 2007, http://www.esrel2007.com.

University of Stavanger, 18th European Safety and Reliability Conference (ESREL), “Strategic Defense and Attack for Series and Parallel Reliability Systems,” Stavanger, June 25-27, 2007, http://www.esrel2007.com.

The Society for Risk Analysis Annual Meeting, “Protecting Complex Infrastructures Against Strategic Attackers,” Boston, Massachusetts, December 7-10, 2008, www.sra.org.

University of Texas at Dallas, “Bridging Areas of Expertise: Funding Research on Terrorism,” October 7-10, 2010, http://cbees.utdallas.edu/tsconference/home.php.

The Society for Risk Analysis Annual Meeting, “Defending and Attacking Networks Subject to Traffic Congestion,” Salt Lake City, Utah, December 5-8, 2010, www.sra.org.

University of Buffalo, “Validating Models of Adversary Behavior,” “Cost Benefit Analysis of War,” Buffalo, June 24-26, 2013, http://www.eng.buffalo.edu/~jzhuang/Conference13/index.html.

Trinity College, “Games and Decisions in Reliability and Risk,” “A Game-Theoretic Model on Economic Crises,” Dublin, July 8-10, 2013, https://www.cs.tcd.ie/disciplines/statistics/statica/statica\_web/GDRR13/GDRR13.html.

University of Buffalo, “Second Conference on Validating Models of Adversary Behavior,” “A Cost Benefit Analysis of Terrorist Attacks,” Buffalo, August 2-5, 2015, http://www.eng.buffalo.edu/~jzhuang/Conference13/speakers.html.

Leiden University, Lorentz Center Workshop, Adversarial Risk Analysis for Critical Infrastructure, “Special versus General Protection and Attack of Parallel Components,” Leiden, The Netherlands, May 23-27, 2016, http://www.lorentzcenter.nl/lc/web/2016/788/info.php3?wsid=788&venue=Oort.

Tsinghua University, International Conference on Risk Analysis, Decision Analysis and Security,” Beijing, China, July 21-24, 2017, “Formalizing the Precautionary Principle Accounting for Strategic Interaction, Natural Factors, and Technological Factors,” [http://www.ie.tsinghua.edu.cn/risk\_July2017](http://www.ie.tsinghua.edu.cn/risk_July2017/index.html).

The Society for Risk Analysis Nordic Conference 2018, “Principal Agent Theory, Game Theory and the Precautionary Principle,” Stavanger, Norway, November 8-9, 2018, https://www.uis.no/getfile.php/13463728/Ansattsider/Vedlegg/SRA%20Program%20og%20paralleller.pdf.

The Society for Risk Analysis Annual Meeting, “Principal Agent Theory, Game Theory and the Precautionary Principle,” New Orleans, Louisiana, December 2-6, 2018, www.sra.org.

Leiden University, Lorentz Center Workshop, “Lorentz Center Cyber Insurance and its Contribution to Cyber Risk Mitigation,” Leiden, The Netherlands, March 25-29 2019, http://lorentzcenter.nl/lc/web/2019/1096/info.php3?wsid=1096&venue=Oort.

University of Buffalo, “The Second Conference on Risk Analysis, Decision Analysis and Security: Risk Analysis in the Digital Era,” Buffalo, July 30-August 2, 2019, http://www.eng.buffalo.edu/~jzhuang/Conference13/program.html.

The Society for Risk Analysis Annual Meeting, “Debt Crises Between a Country and an International Lender as a Two-Period Game,” co-authored with Jonathan W. Welburn, Virtual Meeting, December 14-17, 2020, www.sra.org.

The Society for Risk Analysis Annual Meeting, “A Two-Period Game Theoretic Model of Zero-Day Attacks with Stockpiling,” co-authored with Guizhou Wang and Jonathan W. Welburn, Virtual Meeting, December 14-17, 2020, www.sra.org.