Strategic Risk Governance and Management Course Module 1 Readings

- Speed Kills
- Roads to Ruin
- How Much Can Firms Known
- The Mortality of Companies

Title	URL
Speed Kills, by Nathan Freier	https://ssi.armywarcollege.edu/index.cfm/articles/Speed-Kills/2017/06/09
Roads to Ruin, by Cass Business School	https://www.reputability.co.uk/files/press/Roads_to_ Ruin The Analysis.pdf
How Much Can Firms Known, by Ormerod and Rosewell	http://www.paulormerod.com/wp- content/uploads/2012/06/how-much-can-firms- know.pdf
The Mortality of Companies, by Daepp et al	https://royalsocietypublishing.org/doi/full/10.1098/rsif.2015.0120

Strategic Risk Governance and Management Course Module 2 Readings

- The Prevalence of Chaotic Dynamics in Games with Many Players
- Reflexivity, Complexity, and the Nature of Social Science
- The Hidden Fragility of Complex Systems
- Exploring Limits to Prediction in Complex Social Systems
- Power Laws, Pareto Distributions, and Zipf's Law
- Complexity Economics

Title	URL
The Prevalence of Chaotic Dynamics in Games with Many Players, by Sanders et al	https://www.nature.com/articles/s41598-018-22013-
Reflexivity, Complexity, and the Nature of Social Science, by Eric Beinhocker	https://www.inet.ox.ac.uk/files/publications/Beinhoc ker%20(JEM%202013).pdf
The Hidden Fragility of Complex Systems, by James Crutchfield	https://www.santafe.edu/research/results/working-papers/the-hidden-fragility-of-complex-systems-consequenc
Exploring Limits to Prediction in Complex Social Systems, by Martin et al	https://arxiv.org/abs/1602.01013
Power Laws, Pareto Distributions, and Zipf's Law, by M.E.J. Newman	https://arxiv.org/abs/cond-mat/0412004
Complexity Economics, by W. Brian Arthur	http://tuvalu.santafe.edu/~wbarthur/Papers/Comp.Econ.SFI.pdf

Strategic Risk Governance and Management Course Module 3 Readings

- Reasoning About Causal Relationships
- Understanding Change in Complex Socio-Technical Systems
- Naturalistic investigations and models of reasoning about complex indeterminate causation
- History Lessons
- Civilization, Transformation, and Collapse
- Prediction and Explanation in Social Systems
- The Natural Science Underlying Big History
- The Intelligence Community Debate over Intuition versus Structured Technique: Implications for Improving Intelligence Warning and Analysis

Title	URL
Reasoning About Causal Relationships, by Rottman and Hastie	https://www.semanticscholar.org/paper/Reasoning-about-causal-relationships%3A-Inferences-on-Rottman-Hastie/575c4bb37d1cc633d49dfa04e779e5963cc4a8a2
Understanding Change in Complex Socio- Technical Systems, by Rouse and Serban	https://pdfs.semanticscholar.org/1372/018043144c12 0f3a87872eed48f7faf0e347.pdf
Naturalistic investigations and models of reasoning about complex indeterminate causation, Hoffman, Klein, and Miller	https://pdfs.semanticscholar.org/56db/8b600efc4eb5 85da334887723a79d1791401.pdf
History Lessons, by Trevor Harley	https://discovery.dundee.ac.uk/ws/files/5236558/Hist ory_lessons_Harley_final.pdf
Civilization, Transformation, and Collapse, by Kurt Springs	https://thejournalofworldanthropology.wordpress.co m/2015/04/17/civilization-transformation-and- collapse-by-kurt-d-springs-m-litt/
Prediction and Explanation in Social Systems, by Hofman, Sharma, and Watts	http://science.sciencemag.org/content/355/6324/486
The Natural Science Underlying Big History, by Eric Chaisson	https://arxiv.org/abs/1406.2730
The Intelligence Community Debate over Intuition versus Structured Technique: Implications for Improving Intelligence Warning and Analysis, by Sundri Khalsa	https://journals.lib.unb.ca/index.php/JCS/article/view/15234/20804

Strategic Risk Governance and Management Course Module 4 Readings

- Firm Performance and the Axis of Errors
- How Predictable is Technological Progress?
- Dragon Kings, Black Swans, and the Prediction of Crises
- The Economics of Radical Uncertainty
- Time Scales in Economic Cycles
- What are Uncertainty Shocks?

Title	URL
Firm Performance and the Axis of Errors, by Powell and Arregle	https://www.researchgate.net/publication/228754383 _Firm_performance_and_the_axis_of_errors
How Predictable is Technological Progress?, by Farmer and Lafond	https://arxiv.org/abs/1502.05274
Dragon Kings, Black Swans, and the Prediction of Crises, by Didier Sornette	https://arxiv.org/pdf/0907.4290.pdf
The Economics of Radical Uncertainty, by Paul Ormerod	http://www.economics-ejournal.org/economics/discussionpapers/2015-40/file
Time Scales in Economic Cycles, by Gevorkyan et al	https://www.researchgate.net/publication/311486317 _Time Scales and Mechanisms of Economic Cyc les_A_Review_of_Theories_of_Long_Waves_1
What are Uncertainty Shocks?, by Kozeniauskas	https://site.stanford.edu/sites/g/files/sbiybj8706/f/467 2-waus_final.pdf

Strategic Risk Governance and Management Course Module 5 Readings

- How social influence can undermine the wisdom of crowd effect
- How Social Ranking Affects Choice Behavior
- Collective Dynamics of Belief Evolution under Cognitive Coherence and Social Conformity
- RAND: The Group Matters
- The Evolution of Overconfidence
- On the Evolutionary Emergence of Optimism
- When the appeal of a dominant leader is greater than a prestige leader

Title	URL
How social influence can undermine the wisdom of crowd effect, by Lorenz et al	https://www.pnas.org/content/pnas/108/22/9020.full.pdf
How Social Ranking Affects Choice Behavior, by Bault et al	https://dornsife.usc.edu/assets/sites/472/docs/Bault_ Coricelli_Rustichini_PLoSone2008.pdf
Collective Dynamics of Belief Evolution under Cognitive Coherence and Social Conformity, by Rodriguez et al	https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0165910
RAND: The Group Matters, by Straus et al	https://www.rand.org/content/dam/rand/pubs/working_papers/2009/RAND_WR580.pdf
The Evolution of Overconfidence, by Johnson and Fowler	http://fowler.ucsd.edu/evolution_of_overconfidence.pdf
On the Evolutionary Emergence of Optimism, by Heifetz and Spiegel	https://papers.ssrn.com/sol3/papers.cfm?abstract_id= 247355
When the appeal of a dominant leader is greater than a prestige leader, by Kakkar and Sivanathan	https://www.pnas.org/content/pnas/114/26/6734.full.pdf

Optional

- Dynamics of organizational culture: Individual beliefs vs. social conformity
- Massive Emotional Contagion Through Networks
- The Evolution of Error
- Opinion Formation and the Collective Dynamics of Risk Perception
- Complex Contagions: A Decade in Review
- The detrimental effects of power on confidence, advice taking, and accuracy
- Social Learning Strategies Regulate the Wisdom and Madness of Interacting Crowds

Title	URL
Dynamics of organizational culture: Individual beliefs vs. social conformity, by Ellinas et al	https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0180193
Massive Emotional Contagion Through Networks, by Kramer et al	https://www.pnas.org/content/pnas/111/24/8788.full.pdf
The Evolution of Error, by Johnson et al	http://fowler.ucsd.edu/evolution_of_error.pdf
Opinion Formation and the Collective Dynamics of Risk Perception, by Mehdi Moussaid	https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0084592
Complex Contagions: A Decade in Review, by Guilbeault et al	https://arxiv.org/abs/1710.07606
The detrimental effects of power on confidence, advice taking, and accuracy, by See et al	https://papers.ssrn.com/sol3/papers.cfm?abstract_id= 1903943
Social learning strategies regulate the wisdom and madness of interactive crowds, by Toyokawa et al	https://www.biorxiv.org/content/10.1101/326637v2

Strategic Risk Governance and Management Course

Module 6 Readings

- Mitre/Jason Study of Anticipating Rare Events
- Hide in Plain Sight: The Strategic Challenge of Grey Swans
- Persistent Forecasting of Disruptive Technologies
- Thinking the Unthinkable
- Known unknowns: Unconventional "strategic shocks" in defense strategy development
- Critical Thoughts About Critical Thinking

Title	URL
Jason Study of Anticipating Rare Events; by The Mitre Corporation	https://fas.org/irp/agency/dod/jason/rare.pdf
Hide in Plain Sight: The Strategic Challenge of Grey Swans, by Michael Mazarr	https://www.worldpoliticsreview.com/articles/15153/hide-in-plain-sight-the-strategic-challenge-of-gray-swans
Persistent Forecasting of Disruptive Technologies, by the National Research Council	https://www.nap.edu/catalog/12557/persistent-forecasting-of-disruptive-technologies
Thinking the Unthinkable, by Gowing and Langdon	https://www.cimaglobal.com/Documents/Thought_leadership_docs/Enterprise_governance/Thinking-the-Unthinkable-cima-report.pdf
Known Unknowns: Unconventional "strategic shocks" in defense strategy development, by Nathan Freier	https://ssi.armywarcollege.edu/pdffiles/PUB890.pdf
Critical Thoughts About Critical Thinking, by Gary Klein	https://www.researchgate.net/publication/229028435 _Critical_thoughts_about_critical_thinking
Capability Surprise, by the Defense Science Board	https://www.acq.osd.mil/dsb/reports/2000s/ADA506 396.pdf

Strategic Risk Governance and Management Course Module 7 Readings

- The Good, the Bad, and the Ugly of Predictive Science
- Forecasting When Power Law Distributions Apply
- Conditions for Intuitive Expertise
- Models, knowledge creation and their limits
- Known Unknowns: A Critical Determinant of Confidence and Calibration

Title	URL
The Good, the Bad, and the Ugly of Predictive Science, by Hemez and Ben- Haim	https://www.semanticscholar.org/paper/The-Good-%2C-The-Bad-%2C-and-The-Ugly-of-Predictive-Hemez-Ben-Haim/cdf0bd8ec2546428fb1b3d924c38e108fdbefc42
Forecasting When Power Law Distributions Apply, by Richard Logan	http://researcharchive.vuw.ac.nz/handle/10063/2030
Conditions for Intuitive Expertise, by Kahneman and Klein	https://www.semanticscholar.org/paper/Conditions-for-intuitive-expertise%3A-a-failure-to-Kahneman-Klein/10312869eec343ca563cc603775aa4e6a2bda023
Models, knowledge creation and their limits, Allen and Strathern	https://www.researchgate.net/publication/247150397 Models knowledge creation and their limits
Known Unknowns: A Critical Determinant of Confidence and Calibration, by Walters et al	https://marketing.wharton.upenn.edu/wp-content/uploads/2015/04/WALTERS-DANIELS-JMP.pdf

Strategic Risk Governance and Management Course Module 8 Readings

- Lessons in Adaptability and Preparing for Black Swan Risks from the Military and Hedge Funds
- Never Underestimate the Immune System
- The Downfall of Adaptive Planning
- Conceptual Framework for Adaptation
- Adaptive Teams
- Chasing a Moving Target: Exploitation and Exploration in Dynamic Environments
- Mental Representation and the Discovery of New Strategies
- The Bias Against Creativity: Why People Desire But Reject Creative Ideas

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Title	URL
Lessons in Adaptability and Preparing for Black Swan Risks from the Military and Hedge Funds, by Burns and Miller	https://apps.dtic.mil/dtic/tr/fulltext/u2/a604358.pdf
Never Underestimate the Immune System, by John Hagel	https://edgeperspectives.typepad.com/edge_perspectives/2017/12/never-under-estimate-the-immune-system.html
The Downfall of Adaptive Planning, by Lt. Colonel John Price	https://www.airuniversity.af.edu/Portals/10/ASPJ/journals/Volume-26_Issue-2/Price.pdf
Conceptual Framework for Adaptation, by Anne-Marie Grisogono	No link available. Download from SRI website.
Adaptive Teams, by Klein and Pierce	https://www.researchgate.net/publication/228708514_Adaptive_teams
Chasing a Moving Target: Exploitation and Exploration in Dynamic Environments, by Posen and Levinthal	https://faculty.wharton.upenn.edu/wp-content/uploads/2012/12/Chasing-a-Moving-Target.pdf

Title	URL
Mental Representation and the Discovery of New Strategies, by Csaszar and Levinthal	https://papers.ssrn.com/sol3/papers.cfm?abstract_id=2267568
The Bias Against Creativity: Why People Desire But Reject Creative Ideas, by Mueller et al	https://www.researchgate.net/publication/51840158 The Bias Against Creativity Why People Desire But Reject Creative Ideas

Strategic Risk Governance and Management Course Module 9 Readings

- Management as Technology
- Keynesian uncertainty and the shaky foundations of statistical risk assessment models
- The Lesson of Lost Value
- Strategic Risk: It's All in Your Head
- Mental Models, Decision Rules, and Performance Heterogeneity
- The Vexing Issue of "Risk Appetite"
- Future Failures that Lurk in Your Risk Register

Title	URL
Management as Technology, by Bloom et al	https://www.hbs.edu/faculty/Publication%20Files/16- 133_64fd57c1-5f76-415a-9567-f1c0d310aff3.pdf
Keynesian uncertainty and the shaky foundations of statistical risk assessment models, by Alessandro Roncaglia	https://papers.ssrn.com/sol3/papers.cfm?abstract_id=2517281
The Lesson of Lost Value, by Dann et al	https://www.strategy-business.com/media/file/00146-Lesson- Lost-Value.pdf
Strategic Risk: It's All in Your Head, by Allan and Beer	http://www.bath.ac.uk/management/research/pdf/2006-01.pdf
Mental Models, Decision Rules, and Performance Heterogeneity, by Gary and Wood	https://papers.ssrn.com/sol3/papers.cfm?abstract_id=1095665
The Vexing Issue of "Risk Appetite", by Tom Coyne	https://papers.ssrn.com/sol3/papers.cfm?abstract_id=2277964
Future Failures that Lurk in Your Risk Register by Britten and Coyne	Download from SRI website.

Strategic Risk Governance and Management Course Module 10 Readings

- The Chairman and the CEO: The Bearing Point or the Odd Couple?
- Managing in a Pareto World Calls for New Thinking
- The role of conviction and narrative in decision-making under radical uncertainty
- Boards must be more combative
- Risk Governance Deficits
- The Influence of Board of Directors' Risk Oversight on Risk Management Maturity and Firm Risk-Taking

Title	URL
The Chairman and the CEO: The Bearing Point or the Odd Couple?, by Neil Britten	https://papers.ssrn.com/sol3/papers.cfm?abstract_id=28040 54
Managing in a Pareto World Calls for New Thinking, by Andriani and McKelvey	http://www.billmckelvey.org/documents/working%20papers/2008%20Andriani,%20McKelvey(08)-Managing%20in%20a%20Pareto%20WorldCirculation-Dec.pdf
The role of conviction and narrative in decision-making under radical uncertainty, by Tuckett and Nikolic	https://www.researchgate.net/publication/307905267 The Role of Conviction and Narrative in Decision Making under Radical Uncertainty
Boards must be more combative, by Stuart Jackson	https://hbr.org/2017/01/boards-must-be-more-combative
Risk Governance Deficits, by the International Risk Governance Council	https://irgc.org/risk-governance/irgc-risk-governance-deficits/
The Influence of Board of Directors' Risk Oversight on Risk Management Maturity and Firm Risk-Taking, by Ittner and Keusch	https://papers.ssrn.com/sol3/papers.cfm?abstract_id=24827 91

Strategic Risk Governance and Management Course Module 11 Readings

- Deep Learning: A Critical Appraisal
- The Next Decade in Al
- Theoretical Impediments to Machine Learning
- Statistics versus Data Mining
- Machine Learning at Central Banks
- Building Machines that Learn and Think Like People
- Human-Al Decision Systems
- Big Data Need Big Theory Too
- When and Where Do We Apply What We Learn? A Taxonomy for Far Transfer

Title	URL
Deep Learning: A Critical Appraisal, by Gary Marcus	https://arxiv.org/pdf/1801.00631.pdf
The Next Decade in Al	https://arxiv.org/pdf/2002.06177.pdf
Theoretical Impediments to Machine Learning, by Judea Pearl	https://arxiv.org/pdf/1801.04016.pdf
Statistics versus Data Mining: Intersecting Disciplines, by David Hand	https://www.kdd.org/exploration_files/hand.pdf
Machine Learning at Central Banks, by Chakraborty and Joseph	https://www.bankofengland.co.uk/working-paper/2017/machine-learning-at-central-banks
Building Machines that Learn and Think Like People, by Lake et al	https://arxiv.org/pdf/1604.00289.pdf
Human-AI Decision Systems, by Sandy Pentland	https://thehumanstrategy.mit.edu/blog/human-ai-decision-systems
Big Data Need Big Theory Too, by Coveney et al	https://royalsocietypublishing.org/doi/full/10.1098/rsta.2016.0153
When and Where Do We Apply What We Learn? A Taxonomy for Far Transfer, by Barnett and Ceci	https://rapunselshair.pbworks.com/f/barnett_2002.pdf