Stanford



M Elisabeth Pate-Cornell

Burton J. and DeeDee McMurtry Professor in the School of Engineering Management Science and Engineering

1 Curriculum Vitae available Online

CONTACT INFORMATION

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Bio

BIO

Dr. Marie-Elisabeth Paté-Cornell is the Burt and Deedee McMurtry Professor in the School of Engineering, and a Professor and Founding Chair of the Department of Management Science and Engineering at Stanford University (2000-2011). Previously, she was the Professor and Chair of the Stanford Department of Industrial Engineering and Engineering Management and an Assistant Professor of Civil Engineering at MIT. Her specialty is engineering risk analysis with application to complex systems (seismic risk, space systems, medical procedures and devices, offshore oil platforms, cyber security, etc.). Her earlier research has focused on the optimization of warning systems and the explicit inclusion of human and organizational factors in the analysis of systems' failure risks. Her more recent work is on the use of game theory in risk analysis with applications that have included counterterrorism and cyber security.

She is a member of the National Academy of Engineering where she chairs the section of Interdisciplinary Engineering and Special Fields, of the French Académie des Technologies, and of the NASA Advisory Council. She is co-chair of the committee of the National Academies (NASEM) on risk analysis methods for nuclear war and nuclear terrorism. She is a Fellow (and past president) of the Society for Risk Analysis and of the Institute for Operations Research and Management Science. She is the author of more than one hundred publications, with several best paper awards, and the co-editor of a book on Perspectives on Complex Global Problems (2016). She was a member of the Board of Advisors of the Naval Postgraduate School, which she chaired from 2004 to 2006, and of the Navy War College. Dr. Paté-Cornell was also a member of the President's (Foreign) Intelligence Advisory Board (2001-2008), of the board of the Aerospace Corporation (2004-2013) of Draper Laboratory (2009-2016), and of InQtel (2006-2017). She was awarded the Frank Ramsey Medal of the Decision Analysis Society, the 2021 IEEE Ramo medal in Systems Engineering and Science, and the 2022 PICMET Award for Leadership in Technology Management. She is a Fellow (and past president) of the Society for Risk Analysis and of the Institute for Management Science and Operations Research, and a Distinguished Vising Scientist of the NASA Jet Propulsion Laboratory. She is the author of more than one hundred publications, for which she got several best paper awards, and the co-editor of a book on Perspectives on Complex Global Problems (2016). She holds a BS in Mathematics and Physics, Marseille (France), an Engineering degree (Applied Math/CS) from the Institut Polytechnique de Grenoble (France), an MS in Operations Research and a PhD in Engineering-Economic Systems, both from Stanford University.

She and her late husband, Dr. Allin Cornell had two children, Philip Cornell (born 1981) and Ariane Cornell (1984). She is married to Admiral James O. Ellis Jr. (US Navy, Ret.).

ACADEMIC APPOINTMENTS

Professor, Management Science and Engineering

ADMINISTRATIVE APPOINTMENTS

- Elected Member, National Academy of Engineering, (1995- present)
- Member, Board of Advisors of NPS Monterey, (2012- present)
- Member, Intelligence Science and Technology Experts Group of the National Academies, (2016-present)
- Member, NASA Advisory Council, (2016- present)
- Member, Corporation of Draper Laboratory, (2009-2016)
- Member, Stanford Advisory Board, (2005-2010)
- Former Chair, Department of Management Science and Engineering, (2000-2011)
- Vice-Chair, Senate, (1998-1999)

HONORS AND AWARDS

- Recipient of the PICMET Award for Leadership in Technology Management, PICMET (2022)
- Recipient of the Ramo medal from IEEE in Systems Engineering and Science, IEEE (2021)
- Distinguished Visiting Scientist, Jet Propulsion Laboratory (2018)
- Best-paper award: "Asteroid Risk Assessment: A Probabilistic Approach.", Risk Analysis (paper with J. Reinhardt, X. Chen, W. Liu, P. Manchev) (2016)
- Best paper Award: "Probabilistic Warnings in National Security Crises: Pearl Harbor Revisited", Decision Analysis, Vol. 13, No. pp. 1-25. by Blum D.M. and M.E. Paté-Cornell: (2016)
- Doctor of Business Administration, Honorary degree, University of Strathclyde, Glasgow, UK (2016)
- Ramsey Medal of the Decision Analysis Society, Institute for Operations Research and the Management Sciences (INFORMS). Decision Analysis Society (2010)
- Chevalier dans L'Ordre National du Merite, Ordre National du Mérite, France. (2008)
- Best-paper Award for the year, Military Operations Research Journal (2003)
- Member, French Académie des Technologies (2003)
- Chair, Decision Analysis Society of the Institute for Operations Research and the Management Sciences (2002-03)
- Award for Meritorious Civilian Service, U.S. Air Force (2002)
- Teaching Award for graduate teaching at the doctoral level, Stanford Department of Management Science and Engineering (June 2002)
- Distinguished Achievement Award, Society for Risk Analysis (2002)
- Fellow, Institute for Operations Research and the Management Sciences (INFORMS) (2002)
- Best paper of the year, IEEE Engineering Management Society (EMS) (2001)
- Conseiller, (Advisor), French Academy of Engineering (2001)
- Council member, National Academy of Engineering (2001)
- Visiting Professor, Ecole Normale Supérieure, Cachan, France (March 1996)
- President, Society for Risk Analysis (1995-1996)
- Fellow, Society for Risk Analysis (1995)
- Member, National Academy of Engineering (1995)
- Visiting Scholar, Electric Power Research Institute, Palo Alto, CA (January-March, 1995)
- Stanford Fellow, NASA-ASEE (1994)
- Decision Analysis Publication Award for the year, Decision Analysis Society of the Institute for Operations Research and the Management Sciences (1994)
- Finalist-Edelman Management Award, The Institute for Management Science (May 1993)

- Best Paper Award, American Nuclear Society (June 1990)
- Visiting Scholar, International Institute for Applied Systems Analysis (IIASA), Laxenburg, Austria (July-August 1979)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

• Member, National Academy of Engineering (1995 - present)

PROFESSIONAL EDUCATION

• PhD, Stanford University (1978)

Teaching

COURSES

2023-24

- Engineering Risk Analysis: MS&E 250A (Win)
- Project Course in Engineering Risk Analysis: MS&E 250B (Spr)

2022-23

- Engineering Risk Analysis: MS&E 250A (Win)
- Project Course in Engineering Risk Analysis: MS&E 250B (Spr)
- Senior Project: MS&E 108 (Win)

2021-22

- Engineering Risk Analysis: MS&E 250A (Win)
- Project Course in Engineering Risk Analysis: MS&E 250B (Spr)

2020-21

- Engineering Risk Analysis: MS&E 250A (Win)
- Project Course in Engineering Risk Analysis: MS&E 250B (Spr)

STANFORD ADVISEES

Doctoral Dissertation Advisor (AC)

Marc Eskew

Master's Program Advisor

Faizan Asif, Yuang Dai, Dimitre Dimitrov, Kyle Duchynski, Preston Forst, Nachat Jatusripitak, Marcus Moen, Lily Raaka, Yifan Shen, Ethan Sperla, Bradley Strauss,

Anchen Yang

Doctoral (Program)

Jarrod Shingleton

Publications

PUBLICATIONS

 UNCERTAINTIES, INTELLIGENCE, AND RISK MANAGEMENT: A FEW OBSERVATIONS AND RECOMMENDATIONS ON MEASURING AND MANAGING RISK STANFORD JOURNAL OF INTERNATIONAL LAW

Pate-Cornell, E.

2015; 51 (1): 53-67

[•] Improving Risk Management: From Lame Excuses to Principled Practice RISK ANALYSIS

Pate-Cornell, E., Cox, L. A. 2014; 34 (7): 1228-1239

• Project Fox: near-earth objects impact risk

Paté-Cornell, M., E.

2013

• On risk analysis models for engineered systems using Bayesian methods

Paté-Cornell, M., E.

2013

• Counter-terrorism modeling: anticipating an attack

Paté-Cornell, M., E.

2013

• Recalibrating risks: reactions to Three-Mile Island, Chernobyl and Fukushima

Paté-Cornell, M., E.

2013

• On black swans and perfect storms

Paté-Cornell, M., E.

2013

• Decisions, risks, and games involving intelligent actors

Paté-Cornell, M., E.

2013

An Engineering Risk Analysis perspective on "black swans" and "perfect storms: taking avoiding and managing the risks of rare events"

Paté-Cornell, M., E.

2013

• The illusion of classical validation for counter-terrorism models: verification and justification of variables and data

Paté-Cornell, M., E.

2013

• The tiger under the bed

Paté-Cornell, M., E.

2013

On "Black Swans" and "Perfect Storms": Risk Analysis and Management When Statistics Are Not Enough RISK ANALYSIS

Pate-Cornell, E.

2012; 32 (11): 1823-1833

Games, Risks, and Analytics: Several Illustrative Cases Involving National Security and Management Situations DECISION ANALYSIS

Pate-Cornell, M. E.

2012; 9 (2): 186-203

• Shortcuts in Complex Engineering Systems: A Principal-Agent Approach to Risk Management RISK ANALYSIS

Garber, R., Pate-Cornell, E.

2012; 32 (5): 836-854

• Counterinsurgency: A Utility-Based Analysis of Different Strategies MILITARY OPERATIONS RESEARCH

Kucik, P., Pate-Cornell, E.

2012; 17 (4): 5-23

 Risk and Decision Analysis: Academic Experience and Current Research Epstein Institute invited seminar series, University of Southern California. Los Angeles, CA.

Paté-Cornell, M., E.

2012

• Some remarks on uncertainty, model complexity and the risks of no risk analysis

Paté-Cornell, M., E.

2012

• Tsunami design criteria for the Fukushima Dai-ichi nuclear power plant: an inquiry driven by curiosity

Paté-Cornell, M., E.

2012

• Risk Management in Game Situations: Principal-agent and adversarial examples

Paté-Cornell, M., E.

2012

• The risks of no risk analysis: The choice of a tsunami design criterion for the Fukushima-Daiichi nuclear power plant

Paté-Cornell, M., E.

2012

• Solar storms: Impact on cascading power grid failures A simple model and illustration

Paté-Cornell, M., E.

2012

• Effects of sever space weather on cascading power failure: an illustrative model and policy implications

Larrosa, C., Kaneshiro, L., Zhao, J., Paté-Cornell, M., E.

2012

• Systems, risks and games analysis

Paté-Cornell, M., E.

2012

• Risk analysis in the systems engineering context a few examples and comments on Fukushima

Paté-Cornell, M., E.

2012

• A probabilistic framework for tactical warnings: inferring localized drug violence

Paté-Cornell, M., E.

2012

• Risk Management in Game Situations: Principal-agent, Adversarial and Cooperation Examples MIT, Engineering Systems Division Lecture Series, Cambridge MA.

Paté-Cornell, M., E.

2012

• Insolvencies in the American Property and Casualty Insurance Industry: a System's Approach Risk and Decision Analysis

Deleris, L., A., Paté-Cornell, M., E.

2012; 3: 3-18

Analysis of National Strategies to Counter a Country's Nuclear Weapons Program DECISION ANALYSIS

Caswell, D. J., Howard, R. A., Pate-Cornell, M. E.

2011; 8 (1): 30-45

• Probabilistic Analysis of a Country's Program to Acquire Nuclear Weapons MILITARY OPERATIONS RESEARCH

Caswell, D. J., Pate-Cornell, M. E.

2011; 16 (1): 5-20

Probabilistic Simulation of Multi-stage Decisions for Operation of a Fractionated Satellite Mission

Daniels, M., P., Tracey, B., Irvine, J., Schran, W., Pate-Cornell, M., E.

2011

• Report to the Department of Interior: Macondo Well-Deepwater Horizon Blowout: Lessons for Improving Offshore Drilling Safety (Committee member; co-author) National Academy of Engineering

National Academy Press, Washington D.C..2011: 1

• Are engineering companies too risk-averse?

Paté-Cornell, M., E.

2011

• Improving the service industry: a Stanford perspective

Paté-Cornell, M., E.

2011

• Probabilistic Analysis of a Country's Program to Acquire Nuclear Weapons Military Operations Research

Caswell, D., Paté-Cornell, M., E.

2011; 16 (1): 5-16

• Space Weather: Impact on cascading power grid failures. A simple model and illustration

Paté-Cornell, M., E.

2011

• Risk Analysis: An Alternative to the "Stuff-happens" Philosophy (or words to that effect)

Paté-Cornell, M., E.

201

• From Piper Alpha to Deepwater Horizon: some observations of risk management and regulation in the offshore oil industry

Paté-Cornell, M., E.

2011

• Games, Risks and National Security

Paté-Cornell, M., E.

2011

• Dynamics in Early Warning and Crisis Management with David Blum, Homeland Security and Advances in Risk Analysis

Paté-Cornell, M., E.

2011

• Safety Analysis of the Advanced Airspace Concept using Monte Carlo Simulation

Blum, D., M., Tipphavong, T., L., Rentas, Y., He, X., Wang, Paté-Cornell, M., E.

2010

• Risk analysis when intelligent actors are involved (illustrated by the cases of the failure risks of the tiles of the space shuttle and patient risks in anesthesia), Invited Lecture Series in Systems Engineering, National University of Singapore (NUS).

Paté-Cornell, M., E.

2010

• Risks and games: three models and illustrations

Paté-Cornell, M., E.

2010

• Fires on Offshore platforms: a risk analysis perspective on Piper Alpha

Paté-Cornell, M., E.

2010

• Taking, avoiding and managing risks: An engineering perspective, including experts, games, and a few lessons learned

Paté-Cornell, M., E.

2010

Stage-Gate Process for the Development of Medical Devices JOURNAL OF MEDICAL DEVICES-TRANSACTIONS OF THE ASME

Pietzsch, J. B., Shluzas, L. A., Pate-Cornell, M. E., Yock, P. G., Linehan, J. H.

2009; 3 (2)

• Greener grass and faster lanes On the roots of the brain drain from Europe to the US, Atomium Culture, European Parliament, Brussels, Belgium.

• Probabilistic Risk Assessment The Wiley Encyclopedia of Operations Research and Management Science

Paté-Cornell, M., E.

edited by Cochran, James, J.

Wiley Pub.2009: 1

• Risks and Games: Intelligent Actors and Fallible Systems

Paté-Cornell, M., E.

2009

• Failure Risks in the Insurance Industry: A Quantitative Systems Analysis The Risk Management and Insurance Review

Paté-Cornell, M., E., Deleris, L., A.

2009; 12 (2): 199-212

• Risks and Games: Intelligent Actors and Fallible Systems

Paté-Cornell, M., E.

2009

• Risks and games: intelligent actors and fallible systems

Paté-Cornell, M., E.

2009

• Accident Precursors The Wiley Encyclopedia of Operations Research and Management Science

Paté-Cornell, M., E.

edited by Cochran, James, J.

Wiley Pub.2009: 1

• The Iterative Nature of Medical Device Design

Shluzas, Lauren, A., Pietzsch, Jan, B., Paté-Cornell, M., Elisabeth, Yock, Paul, G., Linehan, John, H.

2009

• Expert opinions in risk analysis

Paté-Cornell, M., E.

2009

• Engineering Risk Analysis: Lessons Learned

Paté-Cornell, M., E.

2009

 Bayesian assessment of overtriage and undertriage at a level I trauma centre PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY A-MATHEMATICAL PHYSICAL AND ENGINEERING SCIENCES

DiDomenico, P. B., Pietzsch, J. B., Pate-Cornell, M. E.

2008; 366 (1874): 2265-2277

Early technology assessment of new medical devices INTERNATIONAL JOURNAL OF TECHNOLOGY ASSESSMENT IN HEALTH CARE

Pietzsch, J. B., Pate-Cornell, M. E.

2008; 24 (1): 36-44

• Risk Analysis and Game Theory: Three Management and Policy Examples

Paté-Cornell, M., E.

2008

 Assessment of Overtriage and Undertriage at a Level I Trauma Centre Philosophical Transactions of the Royal Society: Mathematical, Physical and Engineering Sciences

DiDomenico, P., B., Pietzsch, J., B., Paté-Cornell, M., E.

2008: 2265-2277

• Assessing Risks of Terrorist Threats

Some Progress in the Analysis of Intelligence Information: Where We Are and Possible Improvements

Paté-Cornell, M., E.

2008

• Engineering Risk Analysis IEEE Technology Management Council of Silicon Valley, Sunnyvale CA.

Paté-Cornell, M., E.

2008

Risk analysis when several decision makers are involved: policy and management examples FUR XIII, Barcelona, Spain.

Paté-Cornell, M., E.

2008

 Probabilistic Risk Analysis Versus Decision Analysis: Similarities, Differences and Illustrations 11th International Conference on the Foundations and Applications of Utility, Risk and Decision Theory

Pate-Cornell, E.

SPRINGER-VERLAG BERLIN.2007: 223-242

Medical Device Development Models

Paté-Cornell, M., E.

2007

• Rationality and Imagination: The Engineering Risk Analysis Method and Some Applications Advances in Decision Analysis, Edward

Paté-Cornell, M., E.

edited by Miles, E., Winterfeldt, v.

Cambridge University Press.2007: 1

Engineering Risk Analysis: What we do, how we do it, and why do we do it? IPER 330, Stanford University

Paté-Cornell, M., E.

2007

 Probabilistic Risk Analysis vs. Decision Analysis: Similarities, Differences and Illustrations Uncertainty and Risk: Mental, Formal and Experimental Representations

Paté-Cornell, M., E.

edited by Abdellaoui, M., Luce, R., D., Machina, M.

Springer Pub..2007: 223-242

• Review of US Medical Device Regulation Journal of Medical Devices

Pietzsch, J., B., Aquino, L., M., Yock, P., G, Paté-Cornell, M., E., Linehan, J., H.

2007; 1: 283-292

• Evidence-based decisions: who says no? provided that the evidence is right

Paté-Cornell, M., E.

2007

Engineering risk analysis of a hospital oxygen supply system MEDICAL DECISION MAKING

Deleris, L. A., Yeo, G. L., Seiver, A., Pate-Cornell, M.

2006; 26 (2): 162-172

• Engineering Risk Analysis: Influence of Human and Organizational Factors

Paté-Cornell, M., E.

2006

• The Respective Roles of Risk and Decision Analyses in Decision Support Decision Analysis

Paté-Cornell, M., E., Dillon, R., L.

2006; 3 (4): 220-232

• Global Financial Analysis (GFA): a Strategic Model of Bankruptcies in the Insurance Industry

Deleris, L., A., Paté-Cornell, M., E.

• Managing Shortcuts in Engineering Systems and Their Safety Effects: A Management Science Perspective

Garber, R., G., Paté-Cornell, M., E.

2000

Probability of infancy problems for space launch vehicles RELIABILITY ENGINEERING & SYSTEM SAFETY

Guikema, S. D., Pate-Cornell, M. E.

2005; 87 (3): 303-314

• Including Technical and Security Risks in the Management of Information Systems: A Programmatic Risk Management Model Systems Engineering

Dillon, L., R, Paté-Cornell, M., E.

2005; 8 (1): 15-28

• A Bayesian Approach to Iraq's Nuclear Program Intelligence Analysis: A Hypothetical Illustration

McLaughlin, J., Paté-Cornell, M., E.

2005

Engineering Risk Analysis for Pro-Active Risk Management

Paté-Cornell, M., E.

2005

 Optimal Use of Budget Reserves to Minimize Technical and Management Failure Risks During Complex Project Development IEEE Transactions on Engineering Management

Dillon, L., R., Pate-Cornell, M., E., Guikema, S., D.

2005; 52 (3)

• Prospective Evaluation of Management Alternatives in Policy Making: Anesthesia Patient Risk Example

Paté-Cornell, M., E.

2005

Probabilistic Modeling of Terrorist Threats

Paté-Cornell, M., E.

2005

• On the limitations of redundancies in the improvement of system reliability RISK ANALYSIS

Pate-Cornell, M. E., Dillon, R. L., Guikema, S. D.

2004; 24 (6): 1423-1436

• Dynamic modeling of the tradeoff between productivity and safety in critical engineering systems RELIABILITY ENGINEERING & SYSTEM SAFETY

Cowing, M. M., Pate-Cornell, M. E., Glynn, P. W.

2004; 86 (3): 269-284

Managing technology development for safety-critical systems IEEE TRANSACTIONS ON ENGINEERING MANAGEMENT

Sachon, M., Pate-Cornell, M. E.

2004; 51 (4): 451-461

Organizational warning systems: A probabilistic approach to optimal design IEEE TRANSACTIONS ON ENGINEERING MANAGEMENT

Lakats, L. M., Pate-Cornell, M. E.

2004; 51 (2): 183-196

• Bayesian analysis of launch vehicle success rates JOURNAL OF SPACECRAFT AND ROCKETS

Guikema, S. D., Pate-Cornell, M. E.

2004; 41 (1): 93-102

• Risks of Terrorist Attacks: Probabilistic Assessment and Use of Intelligence Information

Paté-Cornell, M., E.

2004

• Risk Analysis vs. Decision Analysis: Methods and Applications

 On signals, response, and risk mitigation: a probabilistic approach to the detection and analysis of precursors In Accident Precursor Analysis and Management, Proceedings of the National Academy of Engineering Workshop on Precursors

Paté-Cornell, M., E.

National Academy Press, Washington D.C..2004: 45-59

• Risk Analysis for Monitoring and Diagnosis of Problems in the Automotive Industry CONVERGENCE 2004 (auto. industry), Detroit, MI.

Paté-Cornell, M., E.

2004

Risk Analysis for Monitoring and Diagnosis of Problems in the Automotive Industry

Paté-Cornell, M., E., Han, B., Christopher

2004

A Framework for Probabilistic Assessment of New Medical Technologies

Pietzsch, J., B., Paté-Cornell, M., E., Krummel, T., M.

2004

• The role of probabilistic risk analysis and decision analysis in the development process of large complex systems

Paté-Cornell, M., E.

2004

• Risk Costs for New Dams: Economic Analysis and Effects of Monitoring The Economics of Natural Hazards

Paté-Cornell, M., E., Tagaras, G.

edited by Kunreuther, H., Rose, A.

The International Library of Critical Writings in Economics, An Elgar Reference Collection, Northampton, MA..2004: 461-470

Organizational Warnings and System Safety: A Probabilistic Analysis IEEE Transactions on Engineering Management

Lakats, M., L., Paté-Cornell, M., E.

2004; 51 (2): 183-196

• Engineering Risk Analysis and Management Boeing Engineering Leadership Lecture Series, Boeing, Saint Louis, Missouri.

Paté-Cornell, M., E.

2004

• Engineering Systems and systems engineering in the MS&E department at Stanford University

Paté-Cornell, M., E.

2004

• Optimal Redundancy for Series Systems: a Value-maximizing Approach

Garber, R., G., Hatfield, J., W., Paté-Cornell, M., E.

2004

• A ProbabilisticAnalysis of the "Infancy Problem" of Space Launch Vehicles

Paté-Cornell, M., E., Guikema, S., D.

2004

Analyzing Losses from Hazard Exposures: a Conservative Probabilistic Estimate Using Supply Chain Risk Simulation

Elkins, D., Deleris, L., A., Paté-Cornell, M., E.

2004

• On Signals, Response, and Risk Mitigation: a Probabilistic Approach to Precursors' Detection and Analysis Accident Precursor Analysis and Management,:

Reducing Technological Risk Through Diligence, Proceedings of the NAE workshop on Precursors, Phimister

Paté-Cornell, M., E.

National Academy Press.2004: 45-59

Modeling the effects of dispersion of design teams on system failure risk JOURNAL OF SPACECRAFT AND ROCKETS

Garber, R., Pate-Cornell, M. E.

2004; 41 (1): 60-68

• Risk chair for concurrent design engineering: Satellite swarm illustration JOURNAL OF SPACECRAFT AND ROCKETS

Benjamin, J. L., Pate-Cornell, M. E.

2004; 41 (1): 51-59

Programmatic risk analysis for critical engineering systems under tight resource constraints OPERATIONS RESEARCH

Dillon, R. L., Pate-Cornell, M. E., Guikema, S. D.

2003; 51 (3): 354-370

• On the tiles of the space shuttle: a risk analysis in 1990 and the Columbia accident of 2003

Paté-Cornell, M., E.

2003

• Assessment and Ranking of Terrorist Threat: a Risk-Analytic Approach Marine Board of the NRC, Washington D.C.

Paté-Cornell, M., E.

2003

• Threat Assessment and Prioritization: a Risk Analysis Approach

Paté-Cornell, M., E.

2003

• A Probabilistic Approach to Precursors' Detection and Analysis in Risk Management

Paté-Cornell, M., E.

2003

• On the tiles of the Space Shuttle: estimating the risks and following up

Paté-Cornell, M., E.

2003

Bayesian Analysis of Launch Vehicle Reliability

Guikema, D., Seth, Paté-Cornell, M., E.

2003

• Terrorism Threat Assessment and Prioritization: A Risk Analysis

Paté-Cornell, M., E.

2003

• Component choice for managing risk in engineered systems with generalized risk/cost functions RELIABILITY ENGINEERING & SYSTEM SAFETY

Guikema, S. D., Pate-Cornell, M. E.

2002; 78 (3): 227-238

• Risk and uncertainty analysis in government safety decisions RISK ANALYSIS

Pate-Cornell, E.

2002; 22 (3): 633-646

• Fusion of intelligence information: A Bayesian approach RISK ANALYSIS

Pate-Cornell, E.

2002; 22 (3): 445-454

 $\bullet \ \ \textbf{Finding and fixing systems weaknesses: Probabilistic methods and applications of engineering risk analysis \textit{RISK ANALYSIS} }$

Pate-Cornell, E.

2002; 22 (2): 319-334

Assessment of the Effects of Biases on the Performance of a Portfolio of Missions International Journal of Aerospace Management

Guikema, S., D., Paté-Cornell, M., E.

2002; 1 (4): 339-351

• Probabilistic Modeling of Terrorist Threats: a Systems Analysis Approach to Setting Priorities Among Countermeasures Military Operations Research

Paté-Cornell, M., E., Guikema, S., D.

2002; 7 (4)

• Optimization of System and Compoennt Reinforcement with Discrete Risk/Cost Functions

Guikema, S., Paté-Cornell, M., E.

2002

Assessment of the Benefits of Anesthesia Patient Risk Reduction Measures: a Systems Analysis Approach Based on Probability Handbook of Operations
Research/Management Science Applications in Health Care

Paté-Cornell, M., E.

edited by Pierskalla, W., Sainfort, F., Brandeau, M.

Kluwer Pub.2002: 1

• Quantitative Risk Analysis: Why, when, and how?

Paté-Cornell, M., E.

2002

• Principles of Quantitative Risk Analysis

Paté-Cornell, M., E.

2002

• An Overarching Systems (Risk) Analysis Model for Threat Assessment.

Paté-Cornell, M., E.

2002

• Early Technology Assessment of New Medical Devices and Procedures: A Systems Analysis Approach Using Probabilistic Modeling

Jan, B., Pietzsch, Krummel, T., M., Paté-Cornell, M., E.

2002

Probabilistic risk analysis for the NASA space shuttle: a brief history and current work RELIABILITY ENGINEERING & SYSTEM SAFETY

Pate-Cornell, E., Dillon, R.

2001; 74 (3): 345-352

 Success factors and future challenges in the management of faster-better-cheaper projects: Lessons learned from NASA IEEE TRANSACTIONS ON ENGINEERING MANAGEMENT

Pate-Cornell, M. E., Dillon, R. L.

2001; 48 (1): 25-35

• Risks of particle hits during space walks in low earth orbit IEEE TRANSACTIONS ON AEROSPACE AND ELECTRONIC SYSTEMS

Pate-Cornell, E., Sachon, M.

2001; 37 (1): 134-146

• The danger of myopic conservatism in risk analysis: the problem of time allocation for the deep space network

Guikema, S., Paté-Cornell, M., E.

2001

• Programmatic Risk Analysis to Search for Life on Mars

Paté-Cornell, M., E., Dillon, R., L.

200

 Managing Technology in the Information Age: Stanford's New Department of Management Science and Engineering International Journal of Technology, Policy and Management, (IJTPM)

Paté-Cornell, M., E.

2001; 1 (2): 160-173

• Introducing a Risk Chair in Concurrent Design Engineering and Satellite Swarm Illustration

Benjamin, J., L., Paté-Cornell, M., E.

2001

APRAM: An Advanced Programmatic Risk Analysis Method International Journal of Technology, Policy and Management (IJTPM)

Dillon, L., R., Paté-Cornell, M., E.

2001; 1 (1): 47-65

 Management of Post-industrial Systems: Academic Challenges and the Stanford Experience International Journal of Technology, Policy and Management, (IJTPM)

Paté-Cornell, M., E. 2001; 1 (2): 151-159

• Risk and Uncertainty Analysis in Government Safety Decisions

Paté-Cornell, M., E. 2001

• Delays and safety in airline maintenance RELIABILITY ENGINEERING & SYSTEM SAFETY

Sachon, M., Pate-Cornell, E. 2000; 67 (3): 301-309

• Safety and productivity trade-offs: managing nuclear reactor outages INTERNATIONAL JOURNAL OF TECHNOLOGY MANAGEMENT

Baron, M. M., Pate-Cornell, M. E.

2000; 19 (3-5): 420-438

• Can Faster-Better-Cheaper Work? Challenges and Recommendations for the Management of Future Space Missions

Paté-Cornell, M., E., Dillon, R., L. 2000

Global Risk Management Environmental Risk Planning and Management

Paté-Cornell, M., E. edited by Turner, B.

2000: 1

Advanced Programmatic Risk Analysis for Programs of Dependent Projects Involving Critical Systems, and Unmanned Space Mission Illustration

Paté-Cornell, M., E., Dillon, R., L.

edited by Kondo, S., Furuta, K.

2000

• Greed and Ignorance: Motivations and Illustrations of the Quantification of Major Risks

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