



M Elisabeth Pate-Cornell

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

 Curriculum Vitae available Online

CONTACT INFORMATION

- **Administrative contact**

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Tel (650)725-1624

Bio

BIO

Dr. Marie-Elisabeth Paté-Cornell is the Burt and Deedee McMurtry Professor in the School of Engineering and Professor and Founding Chair (2000-2011) of the Department of Management Science and Engineering at Stanford University. Her specialty is engineering risk analysis with application to complex systems (space, medical, offshore oil platforms, 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 recent work is on the use of game theory in risk analysis with applications that have included counter-terrorism, nuclear counter-proliferation problems and cyber security. She is the author of more than one hundred publications, and the co-editor of a book on Perspectives on Complex Global Problems (2016).

She is a member of the National Academy of Engineering, of the French Académie des Technologies, of the NASA Advisory Council and of several boards including the Board of Advisors of the Naval Postgraduate School and the Navy War College. Dr. Paté-Cornell was a member of the President's Foreign Intelligence Advisory Board from December 2001 to 2008, of the board of the Aerospace Corporation (2004-2013) of Draper Laboratory (2009-2016), and of InQtel (2006-2017). 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

- 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

- 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 (INFORMS), Decision Analysis Society of the Institute for Operations Research and the Management Sciences (2010)
- Ramsey Medal of the Decision Analysis Society, Institute for Operations Research and the Management Sciences (INFORMS) (2010)
- Chevalier dans L'Ordre, National du Mérite, France. (2008)
- Chevalier dans L'Ordre, National du Mérite, France. (2008)
- Best-paper Award for the year, Military Operations Research Journal (2003)
- Member, French Academy of Engineering (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)
- Fellows Award, 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 (2013 - present)

PROFESSIONAL EDUCATION

- PhD, Stanford University (1978)

Teaching

COURSES

2019-20

- Engineering Risk Analysis: MS&E 250A (Win)
- Fundamental and Current Topics in Engineering Risk Analysis: MS&E 350 (Spr)
- Project Course in Engineering Risk Analysis: MS&E 250B (Spr)

2018-19

- Fundamental and Current Topics in Engineering Risk Analysis: MS&E 350 (Spr)
- Project Course in Engineering Risk Analysis: MS&E 250B (Spr)
- Technological Risks: OSPCPTWN 13 (Win)

2017-18

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

2016-17

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

STANFORD ADVISEES

Master's Program Advisor

Dimitre Dimitrov, Lauren Fishman, Michelle Howard, Jenn Hu, Kevin Jenkins, Isaac Matthews, Christian Ostberg, Donovan Tokuyama

Doctoral (Program)

Joe Goldfrank, Matt Mogensen, James Myerson

Publications

PUBLICATIONS

- **Review of the Prince William Sound Risk Assessment Study** *Committee on Risk Assessment and Management for Marine Systems (national Research Council, Marine Board)*.
Paté-Cornell, M., E., Ahearne, J.
Chair of the committee, co-author of several sections. National Academy Press, Washington D.C.: 1
- **Warning Systems for Engineering Projects**
Paté-Cornell, M., E.
- **Games and Risk Analysis: Three examples of single and alternate moves** *Game theoretic Risk Analysis of Security Threats*
Paté-Cornell, M., E.
edited by Bier, V., Azaiez, M., N.
Springer Pub, New York.: 147–175
- **Probabilistic Analysis of the Effect of Resource Constraints on System Safety: Towing Failures During the Construction of Concrete Platforms**
Paté-Cornell, M., E., Rettedal, W.

-
- **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**
Pate-Cornell, M., E.
2013
 - **On risk analysis models for engineered systems using Bayesian methods**
Pate-Cornell, M., E.
2013
 - **Counter-terrorism modeling: anticipating an attack**
Pate-Cornell, M., E.
2013
 - **Recalibrating risks: reactions to Three-Mile Island, Chernobyl and Fukushima**
Pate-Cornell, M., E.
2013
 - **On black swans and perfect storms**
Pate-Cornell, M., E.
2013
 - **Decisions, risks, and games involving intelligent actors**
Pate-Cornell, M., E.
2013
 - **An Engineering Risk Analysis perspective on “black swans” and “perfect storms: taking avoiding and managing the risks of rare events”**
Pate-Cornell, M., E.
2013
 - **The illusion of classical validation for counter-terrorism models: verification and justification of variables and data**
Pate-Cornell, M., E.
2013
 - **The tiger under the bed**
Pate-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*
Paté-Cornell, M., E.
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.
2011
- **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., Tiphavong, 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.*
Paté-Cornell, M., E.
2009
 - **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**

Paté-Cornell, M., E.
2008

- **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.
2006
- **Managing Shortcuts in Engineering Systems and Their Safety Effects: A Management Science Perspective**
Garber, R., G., Paté-Cornell, M., E.
2006
- **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**

Paté-Cornell, M., E.

2004

- **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 Probabilistic Analysis 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 files 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
- **Finding and fixing systems weaknesses: Probabilistic methods and applications of engineering risk analysis** *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 Component 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.
2001
- **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.
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