IDENTIFYING INFORMATION:

NAME: Ezell, Barry

ORCID iD: https://orcid.org/0000-0003-4274-908X

POSITION TITLE: Deputy Executive Director | Research Professor

PRIMARY ORGANIZATION AND LOCATION: Old Dominion University, Suffolk, Virginia, United States

Professional Preparation:

ORGANIZATION AND LOCATION	DEGREE (if applicable)	RECEIPT DATE	FIELD OF STUDY
Old Dominion University, Norfolk, Virginia, United States	PHD	05/2005	Engineering Management
University of Virginia, Charlottesville, Virginia, United States	MS	05/1998	Systems Engineering
University of Southern Mississippi, Hattiesburg, Mississippi, United States	BS	05/1988	Mechanical Engineering Technology

Appointments and Positions

2018 - present Deputy Executive Director | Research Professor, Old Dominion University, Virginia Modeling Analysis and Simulation Center, Suffolk, Virginia, United States

2010 - 2018 Chief Scientist, Old Dominion University, Virginia Modeling Analysis and Simulation Center, Suffolk, Virginia, United States

2008 - 2010 Research Assistant Professor, Old Dominion University, Suffolk, Virginia, United States

2000 - 2001 Deputy Director, United States Military Academy, Operations Research Center of Excellence, West Point, New York, United States

1998 - 2001 Assistant Professor, United States Military Academy, Department of Systems Engineering, West Point, New York, United States

Products

Products Most Closely Related to the Proposed Project

1. Robinson RM, Ezell B. Criticality assessment for a regional maritime economy. J Emerg Manag. 2021 Jan-Feb;19(1):69-78. PubMed PMID: 33735437.
2. Caskey S, Ezell B. Prioritizing Countries by Concern Regarding Access to Weapons of Mass Destruction Materials. Journal of Bioterrorism & Biodefense. 2021; 12(1):10.
3. Ezell B, Lynch C, Hester P. Methods for weighting decisions to assist modelers and decision analysts: A review of ratio assignment and approximate techniques. Applied Sciences. 2021; 11(21):10397. issn: 2076-3417
4. Ezell B, Lawsure K. Homeland Security and Emergency Management Grant Allocation. Journal of Leadership, Accountability & Ethics. 2019; 16(4). issn: 1913-8059
5. Ezell BC, Bennett SP, von Winterfeldt D, Sokolowski J, Collins AJ. Probabilistic risk analysis

and terrorism risk. Risk Anal. 2010 Apr;30(4):575-89. PubMed PMID: 20522198.

Other Significant Products, Whether or Not Related to the Proposed Project

1. Rahman . NO SMALL POTATOES: UNDERSTANDING RISKS AND IMPACTS TO OUR AGRICULTURAL SUPPLY. 2022.
2. Gore R, Diallo S, Padilla J, Ezell B. Assessing cyber-incidents using machine learning. International Journal of Information and Computer Security. 2018; 10(4):341-360. issn: 1744-1765
3. Lathrop J, Ezell B. A systems approach to risk analysis validation for risk management. Safety Science. 2017; 99:187-195. issn: 0925-7535
4. Lathrop J, Ezell B. Validating Terrorism Risk Assessment Models–Lessons Learned from 11 Models. Improving Homeland Security Decisions. 2017; :54. isbn: 1107161886
5. Hester P, Ezell B, Collins A, Horst J, Lawsure K. A method for key performance indicator assessment in manufacturing organizations. International Journal of Operations Research. 2017; 14(4).

Synergistic Activities

1. Providing risk modeling, decision modeling, and cost-benefit analysis for the Virginia Department of Emergency Management for 14 consecutive years. The research included a the development of a system to in-jest hundreds of homeland security proposals, assign multiple reviewers across the Commonwealth, scoring functionality, and the development and implementation of a multi-objective model encoded with the values and preferences of Virginia stakeholders. Each year the analysis produces a 1-n priority ordered list of homeland security proposals to inform leadership decisions on funding.
2. Leading a multi-university and contracting team to successfully deliver the 2023 Commonwealth of Virginia State Hazard Mitigation Plan. The plan provides guidance for hazard mitigation activities within the Commonwealth. The plan's vision is supported by goals, objectives and prioritized actions for Virginia that aim to reduce damages or injuries from natural hazards to residents, communities, state facilities, and critical facilities. The plan describes the planning process, risk assessment, mitigation strategy, provides local plan coordination mechanisms, adoption, and implementation measures.
3. Key Performance Indicators (KPIs) are an essential element of an organization's ability to monitor its strategic health, helping to ensure the strategic goals of the organization are achieved. However, KPI assessment and improvement is often an ad hoc and consultant-driven process rather than one undertaken using scientific principles. This research was conducted for the National Institute of Standards and Technology to develop and test KPI assessment and improvement. In 2017, the result results formed the basis for a new NIST Standard on KPI selection, assessment, and improvement.
4. Scholarly contribution was recognized by the Society for Risk Analysis as best paper in the journal in 2010. Probabilistic Risk Analysis and Terrorism Risk is cited 346 times and identified among the top contributing research papers in past 30 years in Society for Risk Analysis (https://www.sra.org/journal/best-paper-reviewer-awards/). The paper is featured and maintained on DHS website (https://www.dhs.gov/xlibrary/assets/rma-risk-assessment-technical-publication.pdf)

Certification:
When the individual signs the certification on behalf of themselves, they are certifying that the information is current, accurate, and complete. This includes, but is not limited to, information related to domestic and foreign appointments and positions. Misrepresentations and/or omissions may be subject to prosecution and liability pursuant to, but not limited to, 18 U.S.C. §§ 287, 1001, 1031 and 31 U.S.C. §§ 3729-3733 and 3802.

Certified by Ezell, Barry in SciENcv on 2023-10-18 13:00:39