

## **Professor Richard de Neufville - Masters Theses Supervised**

148. "Analysis of Flexible Design Options for Mixed-Signal Integrated Circuit Products," Matthew McShea, System Design and Management Program, 2019
147. "Identifying Opportunities for Flexible Design of Infrastructure: Case Studies of a Space Launch Complex and LNG for Sardinia", Davide Lasi, System Design and Management Program, August 2018.
146. "Developing Flexibility through Alternative Project Delivery Methods for the U.S. Army Corps of Engineers Project Management Business Process," Brian Williams, System Design and Management Program, January, 2018.
145. "Improving Value of Strategic Defense Systems using Modular Open Architecture" Charles "Barry" Wilson, Technology and Policy Program, May 2017.
144. "Embracing the Future of Land Transportation: Valuing Flexibility in Design and Technology Options for Autonomous Vehicle Developments in Singapore," Huiling Eng, System Design and Management Program, December 2016.
143. "Flexibility *IN* Ballpark Design," Kyle Ressler, System Design and Management Program, May 2014.
142. "Choosing Flexibility: Exploring the many layers of Decision-Making for a desalination project in Qatar," Abdullah Al-Misnad, Technology and Policy Program, January 2014.
141. "Implication of the Jensen's Inequality for System Dynamic Simulations: Application to a Plug & Play Integrated Refinery Supply Chain Model", Esteban Montero, System Design and Management Program, December 2013.
140. "An Optimization Approach for Scheduling Aircraft Landings in a Terminal Area under the Concept of Alternative Arrival Routes," Mayara Condé Rocha Murça, Instituto Tecnológico da Aeronáutica, Brazil, December 2013 [External Examiner]
139. "Flexible Design: An Innovative Approach for Planning Water Infrastructure Systems Under Uncertainty," Melanie Wong, Technology and Policy Program, May 2013.
138. "A Spinoffs Study Applied to the Airline Industry," Erika Kutsher, System Design and Management Program, August 2012.
137. "Risk Management and Governance for PFI Project: Technology Policy Lessons from the case of Japan," Takuji Matsumoto, Technology and Policy Program, May 2012.
136. "System Architecture Decisions under Uncertainty: A Case Study on Automotive Battery System Design," Matthew Renzi, System Design and Management Program, May 2012 (with Qi Hommes).
135. "Improving the Risk Identification Process for a Global Supply Chain," Amil Mody, Leaders for Global Optimization Program, May 2012.
134. "Forest Fire Management in Portugal: Developing System Insights through Models of Social and Physical Dynamics," Ross Collins, Technology and Policy Program, May 2012.
133. "Governance Mechanisms for Infrastructure Public-Private Partnerships: Focus on India," Arjun Gupta, Technology and Policy Program, August 2011.
132. "Valuing flexibility in product platforms: An analytical framework," Matt Harper, Systems Design and Management Program, May 2011.
131. "Flexibility in Early Stage Design of US Navy Ships: an Analysis of Options," Jonathan Page, System Design and Management and Naval Engineer Programs, May 2011.
130. "The European Satellite Navigation Program: Policy Analysis and Recommendations for the Future," Laura Escudero San José, Technology and Policy Program, November 2010.
129. "Apply Option-Thinking in Long Term Infrastructure Investment: the Case of Commercial Real Estate," Na Zhang, Technology and Policy Program, May 2010.

128. "Performance and Design of Taxi Services at Airport Passenger Terminals," David Costa Bologna Master's, Transportation Program, Instituto Superior Técnico, Lisbon, Dec. 2009
127. "Integrated Method to Create Optimal Dynamic Strategic Plans for Corporate Technology Start-Ups," Samir Mikati, May 2009
126. "A Methodology for Identifying Flexible Design Opportunities," Jennifer Wilds, September 2008.
125. "Real Options in Action: Applicability of Vertically Phased Development in Commercial Real Estate," Jason Pearson and Kate Wittels, Master of Science in Real Estate Development, August 2008.
124. "A Real Options Analysis of a Vertically Expandable Real Estate Development," Anthony Guma, Master of Science in Real Estate Development, August 2008. **[2008 Prize for Best Thesis in Center for Real Estate]**
123. ["Using Design Flexibility and Real Options to Reduce Risk in Private Finance Initiatives: The Case of Japan,"](#) Dai Ohama, May 2008.
122. "Real Options Analysis of Flexibility in a Hospital Emergency Department Expansion Project," Luis Maseda, May 2008.
121. "Hybrid Lattice and Decision Analysis of Real Options: Application to a Supply Chain Strategy," Nestor Quispez-Asin, January 2008
120. "Tackling Uncertainty in Airport Design: A real Options Approach," Richard-Duane Chambers, August 2007
119. "Strategic Planning for Rail System Design: an Application for Portuguese High Speed Rail," Boyana Petkova, Industrial Engineering and Management, U. of Groningen, Netherlands, (with J. Sussman, J. Simons and H. Sol), June 2007
- 118 "Facing Reality: Design and Management of Flexible Engineering Systems," Michel-Alexandre Cardin, June 2007.
117. "Potential On-time Performance Improvements at the Lufthansa Station at Frankfurt Airport: A Human Factors Approach," Joerg Speri, Massey University School of Aviation (New Zealand) external examiner, Spring 2007
116. "Real Options Analysis as a Decision Tool in Oil Field Developments," Abisoye Babajibe, January 2007.
- 115 "A Practical Method for Incorporating Real Options Analysis into US Federal Benefit-Cost Analysis Procedures," Darren Rivey, January 2007.
- 114 "R&D and Deployment Valuation of the Intelligent Transportation Systems: A case example of Intersection Collision Avoidance Systems," Kenichi Hodota, May, 2006
113. "Valuing Innovative Technology R&D as a Real Option: Application to Fuel Cell Vehicles," Maggie Tsui, September 2005
112. "Real Options Approach to Capacity Planning under Uncertainty," Gittanjali Mittal, January, 2004
111. "Managing Risks of Supply-Chain Disruptions: Dual Sourcing as a Real Option," Sophie Pochard, August 2003.
- 110 "Real Options for Naval Ship Design and Acquisition: A Method for Valuing Flexibility under Uncertainty," Jeffrey Gregor, June 3, 2003.
- 109 "Enhancing the Economics of Satellite Communications via Staged Deployment and Orbital Reconfiguration," Mathieu Chaize (with Olivier de Weck), May 2003
108. "Analysis of Real Options in Hydropower Construction Projects - A Case Study in China," Tao Wang, August 2003.
107. "Valuing Flexibility in Infrastructure Developments: The Bogotá Water Supply Expansion Plan,"

Natalia Ramirez, May 2002. **[Prize for Best Thesis in Technology Policy]**

106. "Designing Flexibility into Airport Passenger Buildings: The Benefits of Multifunctional Space and Facilities" Steven Belin, May 2000
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101. "Dynamic Strategic Planning for System Design: An application to Oil Field Development," Magali Smets, Jan.1999.
100. "Alternative Fuel Vehicle Policy: A Life Cycle Analysis Tool for Emissions, Costs and Energy Efficiency with an Application to the United States," Jeremy Hackney, May 1997.
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98. "The evaluation of French Major Highway Projects: Recommendations based on the American Experience," Alexis de Pommerol, May 1995
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95. "Priorities for the Mexico City International Airport Under Privatization," Javier Rojas-Guzman. May 1995.
94. "Technology Transfer through R & D Organizations-Industry Interaction: A Policy Analysis for a Public Research Institute in Mexico," L. Gomez-Ugarte, May 1994.
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76. "Spatial Logistics Management: Analysis of Potential Applications," Carolyn Wong, September 1987
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13. "An Evaluation of Alternative Terminal Designs for Airports," D. Fay, 1971.
12. "An Airport Access Demand Study," F. Koller and R. Skinner, 1971.
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1. "A Resource Allocation System for Several Multicomponent Projects," P. Flanagan, 1968.