



INTRODUCTION TO MULTIPLE OBJECTIVE DECISION ANALYSIS

A professional, virtual short course taught by the ITA Data Solutions Team

Aug 22-25, 2022

8:30 a.m. to 4:30 p.m. ET

Cost: \$1900 (Includes class materials.) Price reduction with multiple participants.

Register Now, Pay Later!:

<https://idiregistration.wufoo.com/forms/registration-for-aug-2022-moda-course/>

Virtual Course

Multiple Objective Decision Analysis is a rigorous analytical approach to better decisions that addresses values, uncertainty and risk, and alternatives.

- Learn to elicit Bayesian network structures and probabilities from experts
- Build Bayesian networks from simple to real-world applications
- Dennis and Joe teach from decades of experience applying Bayesian networks in national security, government, and industry
- Learn about building geospatial models in GeoNetica and integrating Netica with other software
- Learn about advances in Bayesian network tools and applications
- Practice learning Bayesian network structures and probabilities from data
- Rapid fire model building exercises to develop formulation expertise

Course emphasizes learning by doing. **Students need their computers/laptops!** Also, come prepared with a problem you can work on during student workshop time. We will supply a free student version of the Netica software. This course contains several model-building exercises to allow students to implement what is being taught.

Instructors:



Dennis Buede



Greg Parnell

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Class Schedule:

Day 1 –

- Introduction to Course and Decision Analysis
- Foundations of Decision Analysis
- Craft Decision Objectives and Value Measures
- Perform Deterministic Analysis and Develop Insight (MODA)
- Guided Team Project Working Time

Day 2 –

- Design Creative, Value Focused Alternatives
- Probability Review
- Quantify Uncertainty
- Perform Probabilistic Analysis
- Guided Team Project Working Time

Day 3 –

- Use the Appropriate Decision Process
- Frame The Decision Opportunity
- Portfolio Decision Analysis with Multiple Objectives
- Guided Team Project Working Time

Day 4 –

- Decision Analysis Soft Skills
- Stakeholders Enable Decision Implementation
- Guided Team Project Working Time
- Project Presentation and Course Wrap

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*Due to current COVID-19 social distancing guidelines, we will not process any course payments at this time, however, early registration is required to reserve your seat. Registrants will be contacted a week before training for payment. For more information, contact: dbuede@ita-intl.com.