

## SUMMER SCHOOL ON DECISION MAKING IN LARGE SYSTEMS

Sunday, June 24, 2018

9:00am – 10:30 am	Introduction -Thumb Tack Demonstration - <b>Ali Abbas</b>
10:30 am - 10:45 am	Break (15 minutes)
10:45 am – 12:00 pm	Introduction – Thumb Tack Demonstration- <b>Ali Abbas</b>
12:00 pm – 1:30 pm	Lunch
1:30 pm – 2:30 pm	Basic Probability
2:30 pm – 3:30 pm	Break-Out: Brainstorm / Research Other Methods of DM- <b>Ali Abbas</b>
3:30 pm – 3:45 pm	Break (15 minutes)
3:45 pm – 5:00 pm	Desiderata- <b>Ali Abbas</b>

Monday, June 25, 2018

9:00 am– 10:30 am	Foundations of Expected Utility: Five Rules of Actional Thought
10:30 am – 10:45 am	Break (15 minutes)
10:45 am – 12:00 pm	Guest Speaker – <b>Andrea Belz</b>
12:00 pm – 1:30 pm	Lunch Guest Speaker – <b>Andrea Belz</b>
1:30 pm – 2:30 pm	Guest Speaker – <b>Dr. George Hazelrigg</b>
2:30 pm – 3:30 pm	Preferences in Engineering Design- <b>George Hazelrigg</b>
3:30 pm – 3:45 pm	Break (15 minutes)
3:45 pm – 5:00 pm	Research Objectives / Plan— <b>George Hazelrigg</b>

Tuesday, June 26, 2018

9:00am – 10:30am	Requirements / Weight and Rate / Multi Attribute Utility /MinMax / AHP Pugh
10:30am – 10:45am	Break (15 minutes)
10:45am – 12:00pm	Guest Speaker – <b>Dr. Neil Siegel, Ph.D.</b>
12:00 pm – 1:30 pm	Lunch Speaker - <b>Dr. Neil Siegel, Ph.D.</b>
1:30 pm – 2:30 pm	Ellsberg/ Allais / Uncertainty about Probability
2:30 pm – 3:30 pm	Structural Models (Physics / Engineering/ Math) and Multi attribute Utility
3:30 pm – 3:45 pm	Break (15 minutes)
3:45 pm – 5:00 pm	Building Preference and Value Functions, Direct vs. Indirect Values

Wednesday, June 27, 2018

9:00am – 10:30am	Measuring Risk Aversion
10:30am – 10:45am	Break (15 minutes)
10:45am – 12:00pm	Guest Speaker – <b>Satyandra Gupta</b>
12:00 pm – 1:30 pm	Lunch Speaker – <b>Satyandra Gupta</b>
1:30 pm – 2:30 pm	Engineer is a Decision Maker- <b>George Hazelrigg</b>
2:30 pm – 3:30 pm	Engineer is a DM - <b>George Hazelrigg</b>
3:30 pm – 3:45 pm	Break (15 minutes)
3:45 pm – 5:00 pm	Updating Belief / Demand— <b>George Hazelrigg</b>

Thursday, June 26, 2018

9:00 am – 10:30am	Introduction to machining dynamics— <b>Dr. Tony Schmitz</b>
10:30 am – 11:00am	Guest Speaker— <b>Dean Yortsos</b>
11:00 am- 12:15	Applying decision analysis to machining— <b>Dr. Tony Schmitz</b>
12:15 pm	Lunch
1:00 pm – 2:00pm	Applying Bayesian updating to machining stability— <b>Dr. Tony Schmitz</b>
2:00 pm – 2:15pm	Break (15 minutes)
2:15 pm-3:30pm	Applying value of information to machining experiments selection— <b>Dr. Tony Schmitz</b>
3:30 pm-5:00pm	Group exercise

Friday, June 26, 2018

9:00am – 10:30 am	Ethical Considerations in Design— <b>Ali Abbas</b>
10:30am – 10:45am	Break (15 minutes)
10:45am – 12:00pm	Guest Speaker – Case Study Ethics / Incentives— <b>Jaqueline Orr</b>
12:00 pm – 1:30 pm	Lunch
1:30 pm – 2:30 pm	Speaker – <b>Richard Malak</b>
2:30 pm – 3:30 pm	Presentations: Research Objectives
3:30 pm – 3:45 pm	Break (15 minutes)
3:45 pm – 5:00 pm	Presentations: Preference Function / Discussion