

Risk Acceptance and Communication Workshop, Stanford University

Day 1 Monday, March 26

Time	Session	Authors	Title
8:00 AM	Registration		
8:15 AM	Welcome	Jack Baker	
	Calibrating design codes and obtaining target risk levels		
8:40 AM		Peter Tanner	Structural safety requirements based on notional risks associated with current practice
9:00 AM		Torgeir Moan	Development of accidental collapse limit state criteria for offshore structures
9:20 AM		Niels Lind, Mahesh Pandey, Jatin Nathwani	Flood control and societal capacity to commit resources
9:40 AM		Brian Meacham	Using risk as a basis for establishing tolerable performance: an approach for building regulation
10:00 AM		Yasuki Ohtori, Hiroshi Soraoka, Tomoyoshi Takeda	Calibration of safety factors for seismic stability of foundation grounds and surrounding slopes in nuclear power sites
10:20 AM		Discussion	
10:35 AM	Coffee		
	Risk acceptance for existing structures		
11:05 AM		Dimitris Diamantidis, Paolo Bazzurro	Target safety criteria for existing structures
11:25 AM		Renee Lee, Anne Kiremidjian	Efficient seismic risk assessment and retrofit prioritization model for transportation networks
11:45 AM		Ryan Williams, Paolo Gardoni, Joseph Bracci	Decision analysis for seismic retrofit of structures
12:05 PM		Discussion	
12:20 PM	Lunch		
	Quantifying and communicating uncertainties		
1:40 PM		Al Ang	Quantitative assessments of risk and its uncertainty in practical decision making
2:00 PM		Stuart Reid	Confidence and risk
2:20 PM		Ross B. Corotis	Risk communication with generalized uncertainty and linguistics
2:40 PM		Armen Der Kiureghian, Ove Ditlevsen	Epistemic or aleatory? Does it matter?
3:00 PM		Bruce Ellingwood	Quantifying and communicating uncertainties in seismic risk assessment
3:20 PM		Discussion	
3:30 PM	Break		
4:00 PM	Break-out session: topics to be determined		
5:00 PM	Close		
7:30 PM	Dinner: Stanford Faculty Club		

Day 2 Tuesday, March 27

Time	Session	Authors	Title
	Advanced uncertainty modeling for risk calculations		
8:30 AM		Abbie Liel, Curt Haselton, Gregory Deierlein, Jack Baker	Assessing the seismic collapse risk of reinforced concrete frame structures, including effects of modeling uncertainties
8:50 AM		Daniel Straub, Armen Der Kiureghian	Risk acceptance in deteriorating structural systems
9:10 AM		Ton Vrouwenvelder	Failure consequences in flood engineering
9:30 AM		K. Nishijima, Marc Maes, Jean Goyet, Michael Faber	Acceptance Criteria for Components of Complex Systems using Hierarchical System Models
9:50 AM		Discussion	
10:00 AM	Coffee		
	Considerations beyond expected costs		
10:30 AM		Terje Haukaas	Risk measures beyond expected cost for decision making in performance-based earthquake engineering
10:50 AM		Michael Faber, Matthias Schubert	Decision making subject to aversion of low frequency high consequences event
11:10 AM		Des Hartford	Justification of risk-taking through reasoning, reasonableness and practicability
11:30 AM		Ove Ditlevsen, Peter Friis-Hansen	Cost and benefit including life, limb and environmental damage measured in time units
11:50 AM		Discussion	
12:00 PM	Lunch		
	Risk assessment and risk acceptance for complex systems		
1:30 PM		Leonardo Dueñas-Osorio	Risk assessment of dynamic urban infrastructures
1:50 PM		Milan Holický	Risk criteria for road tunnels
2:10 PM		Junho Song, Won Hee Kang	Risk-quantification of complex systems by matrix-based system reliability method
2:30 PM		Sei'ichiro Fukushima, Tsuyoshi Takada	Probabilistic Comparison of Seismic Design Response Spectra
2:50 PM		Discussion	
3:00 PM	Break		
3:30 PM	Break-out session: topics to be determined		
4:30 PM	Summary of break out sessions, consensus points, and future directions		
5:00 PM	Close, reception at Stanford Faculty Club		