Friday Schedule

Keynote presentation by **Professor M. Beer**

Uncertainty Quantification under Vague Conditions

Keynote presentation by **Professor E. Pattelli**

Reliable simulation of complex systems and networks under uncertainty

Friday Afternoon – 13:20	
Room 1	**Room 2**
Chairs: Prof. D Flynn and Dr P. Spyridis	Chairs: Dr C. Avila and Dr. L Dostal
Application of Evolutionary Algorithms in Bayesian Multi-objective Reliability-Based Design Optimization	*Deflection control of prestressed concrete elements considering uncertainties*
A Fusion Prognostics Model for Predictive health management of railway track circuits	*Response and First Passage Times of Randomly Perturbed Hamiltonian Systems*
Aspects of Bayesian Fatigue Modelling	*Existence and Uniqueness Weak Solution for Stochastic Bending Kirchhoff's Plate*
Reliability-based nonlinear analysis of concrete beams without shear reinforcement	*Key Characteristics Identification based on Iso-Sensitivity Tolerance Allocation*
Comparison of Tunnel Failure Frequencies and Failure Probabilities	*Resilience targets for structural fire design*