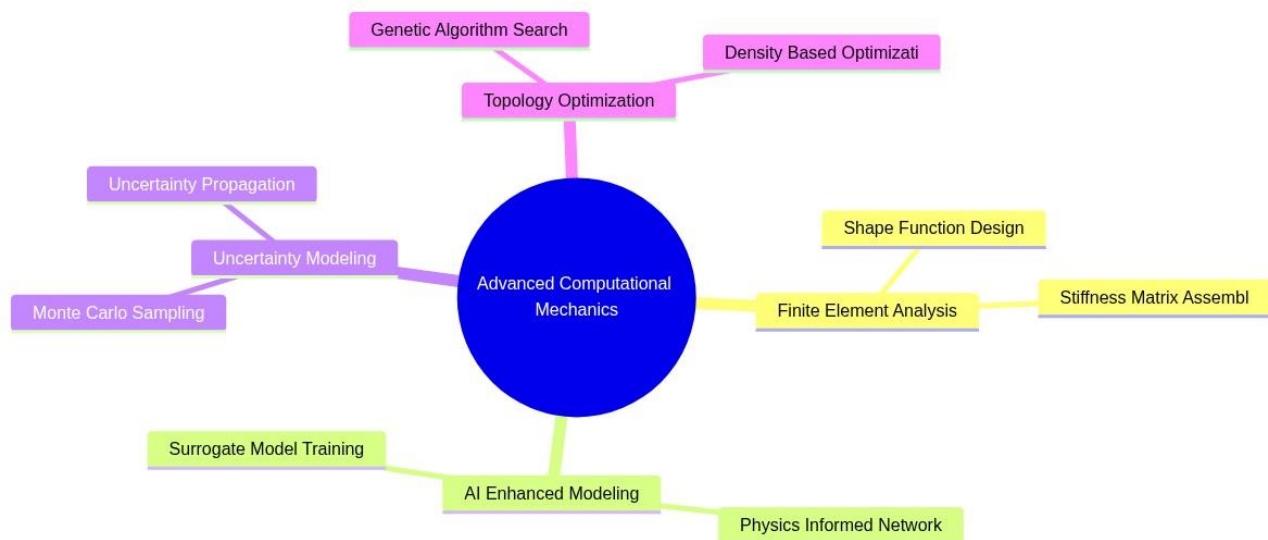


Master Certificate in Advanced Ai-Driven Structural Design

Advanced Computational Mechanics



mindmap

```
root((Advanced Computational Mechanics))
  Finite Element Analysis
    Shape Function Design
    Stiffness Matrix Assembl
  AI Enhanced Modeling
    Physics Informed Network
    Surrogate Model Training
  Uncertainty Modeling
    Monte Carlo Sampling
    Uncertainty Propagation
  Topology Optimization
    Genetic Algorithm Search
    Density Based Optimizati
```