Computational Intelligence in Complex Systems

Computational Intelligence (Evolutionary Computation)
- Evolutionary computation theory and applications
- Artificial life, agent-based modeling, numerical optimization

Autonomous Systems
- Agent Based autonomous control
- Computational intelligence for situational awareness
- Hybrid algorithms for decision making

Complex System Modeling
- Combine disparate models and simulations to represent system as a whole
- Increase confidence in technical performance and reduce risk before system is created

The use of computational intelligence to interface and optimize complex systems

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Keywords
- #Computational Intelligence, #Complex Systems, #Evolutionary Computation, #Model-Based Systems Engineering, #Bioinformatics

Recognitions
- IEEE Computational Intelligence
  - Evolutionary Computation Technical Committee
  - Chair of Bioinformatics and Bioengineering TC
- INCOSE Model-Based Systems Engineering Leadership team
- ASEM Fellow

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