

RNCP: A Resilient Networking and Computing Paradigm for NASA Space Exploration

PI: Jin Wei,

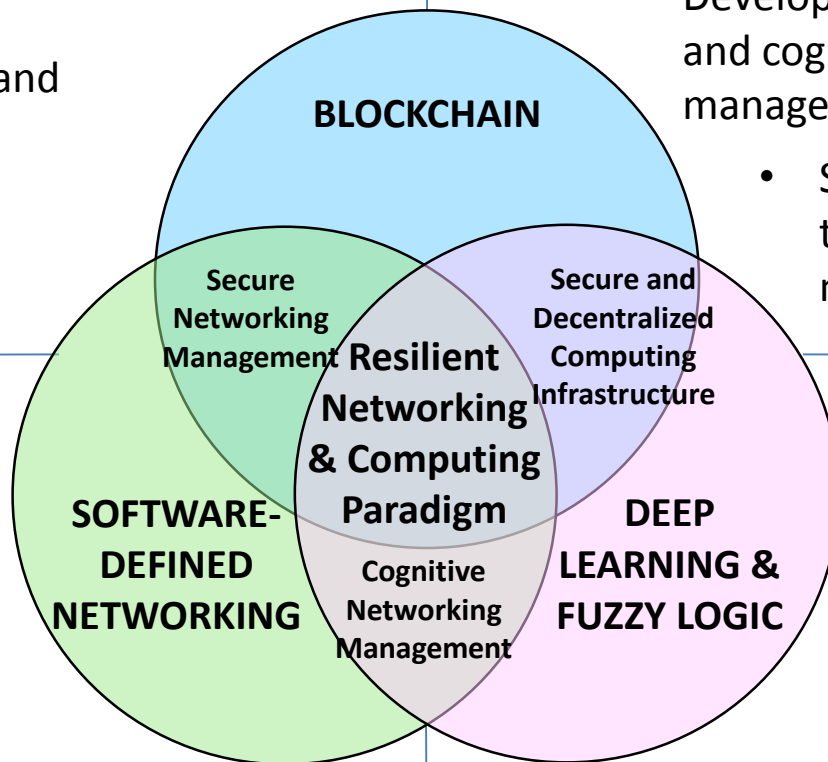
Assistant Professor

Department of Electrical and
Computer Engineering

The University of Akron

Approach:

- Blockchain technique
- Deep learning
- Software-defined networking
- Fuzzy logic method
- Game theory
- Contract theory



Research Objectives

- Design a secure and decentralized computing and data analysis infrastructure
 - Develop a data-driven resilient and cognitive networking management architecture.
- Simulate, test, and validate the resilient computing and networking paradigm.

Potential Impact

- Contribute to the next-generation computing infrastructure.
- Improve the environment-awareness of the space networking via data-driven method.