Cyber Security Major R&D Challenges

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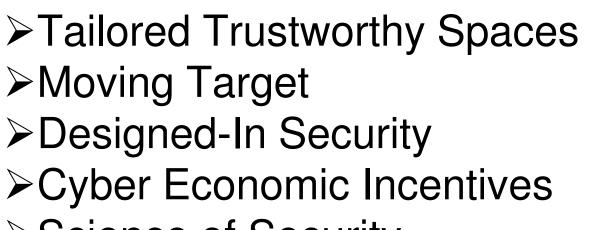
Cyber Security Research Institute (CSRI)
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Prof. Ravi Sandhu conveys his regrets for inability to participate due to scheduling conflict

➢Tailored Trustworthy Spaces

➢Moving Target

➢Designed-In Security

➢Cyber Economic Incentives

➢Science of Security

NITRD Publication:

Trustworthy Cyberspace: Strategic Plan for the Federal Cyber Security Research and Development Program

- ➢ Cyber security as a system problem
  - ➢ Balance right amount of security with integration and mutual support of mechanisms
  - ➢ Finding Goldilocks
- ➢ Synergistic integration instead of current cyber security silos
  - ➢ Integration and mutual support of prevention, detection and attack models and mechanisms
- ➢ Attribute based security for dynamic adjustment
  - ➢ Adaptive attribute-based models
  - ➢ Supportive mechanisms
  - ➢ Consistency metrics between models and mechanisms