

Software Defined Radio Framework for Cybersecurity and Information Assurance Education

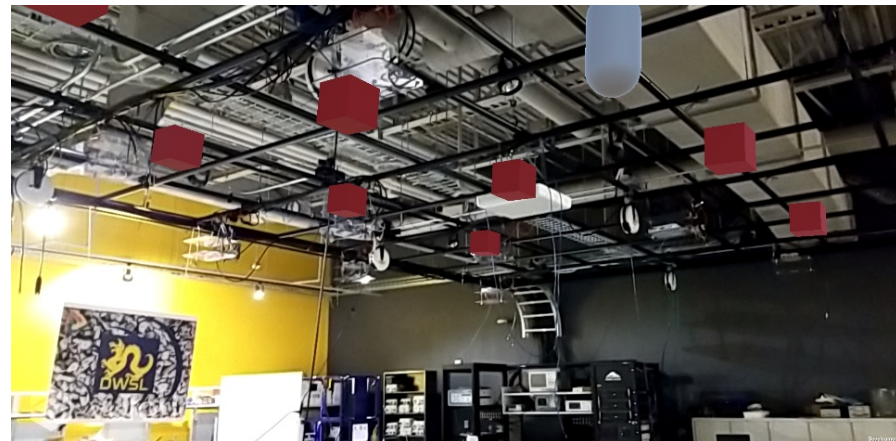
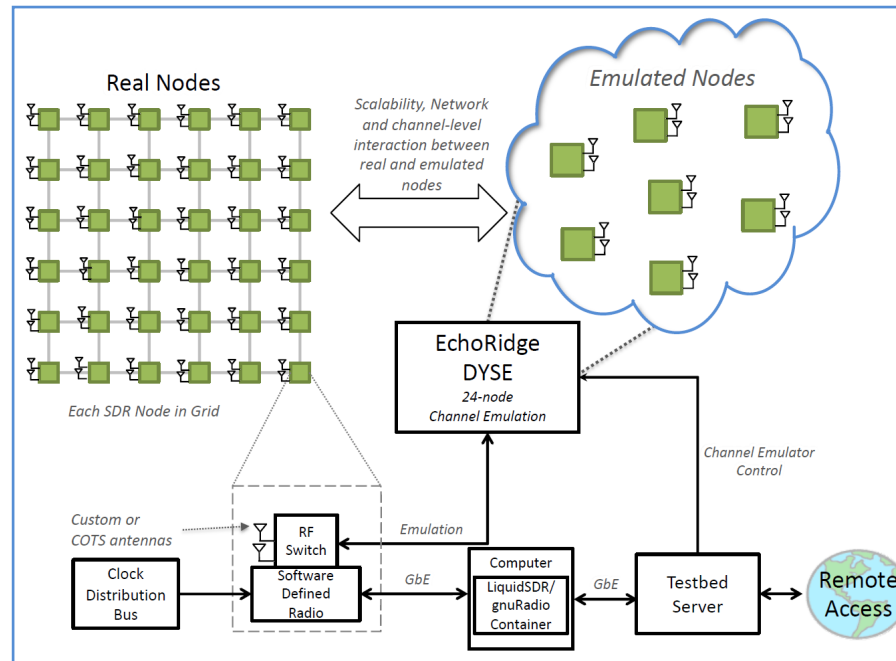


Challenge:

- Increased risk of malicious attacks from new wireless technologies and poor counter-measurements

Solution:

- Develop a hardware/software educational suite to train the next generation of wireless experts to secure the future



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Scientific Impact:

- Customizable, repeatable, and scalable evaluation of wireless networks
- Ideal framework for wireless education suite
- Visualization (AR) to provide an intuitive display of how these design decisions lead to different network performance

Broader Impact:

- Emphasize security in design not as an afterthought
- Goal is to provide students the tools and experience to secure a better cyber future
- The two new classes (Wireless Security and SDR Lab) will impact cybersecurity and wireless communication education.