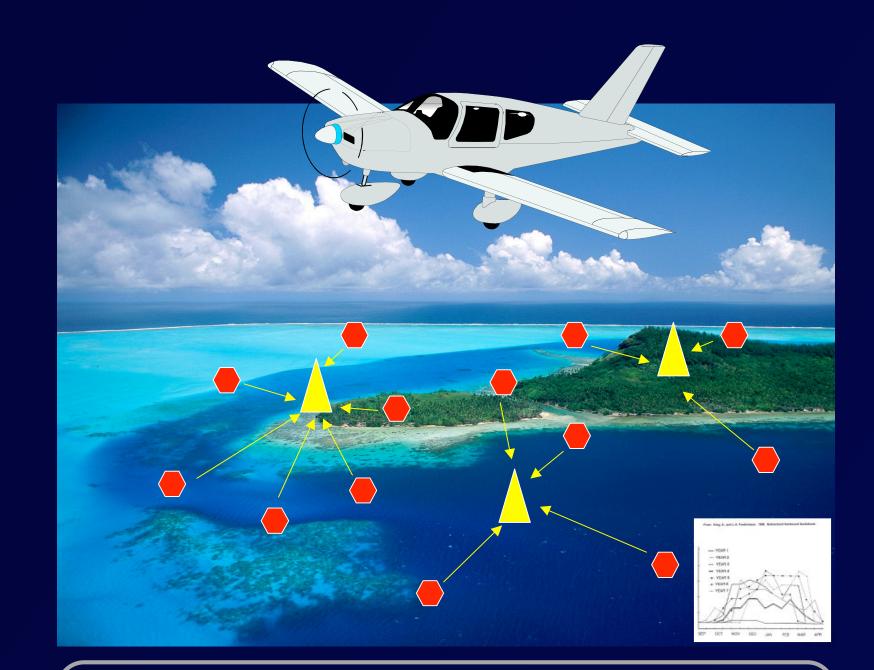
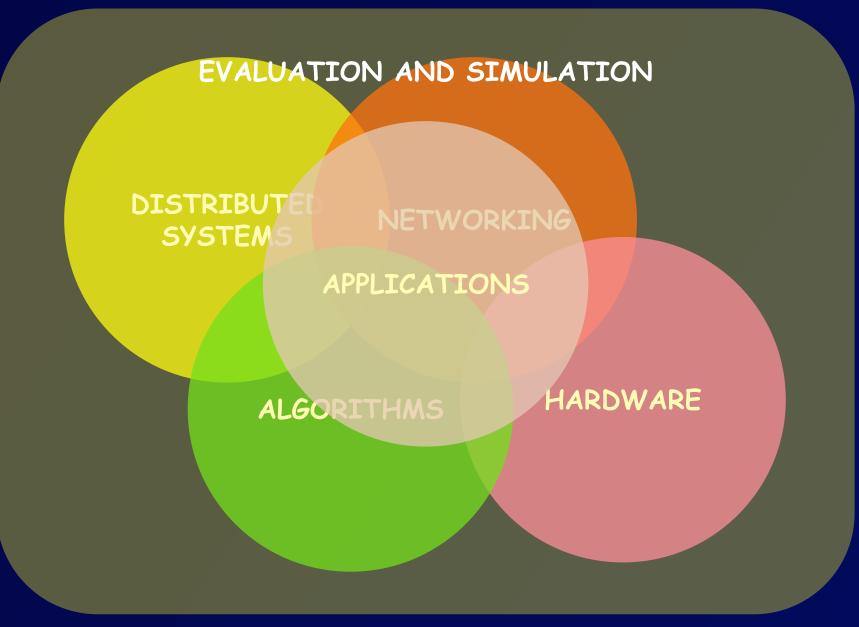
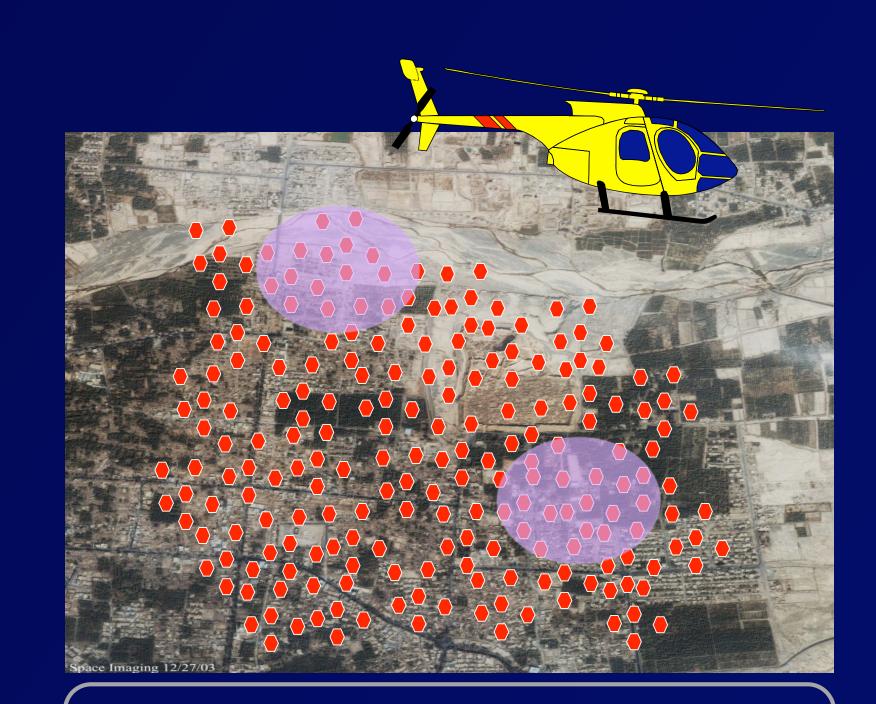
WIRELESS VIDEO SENSOR NETWORKS FOR SURVEILLANCE APPLICATIONS



On-the-fly deployment of





Real-time organization and optimization

environmental monitoring network

Research in Wireless Sensor Networks

of rescue in large scale disasters

140x140

Scalar sensor nodes



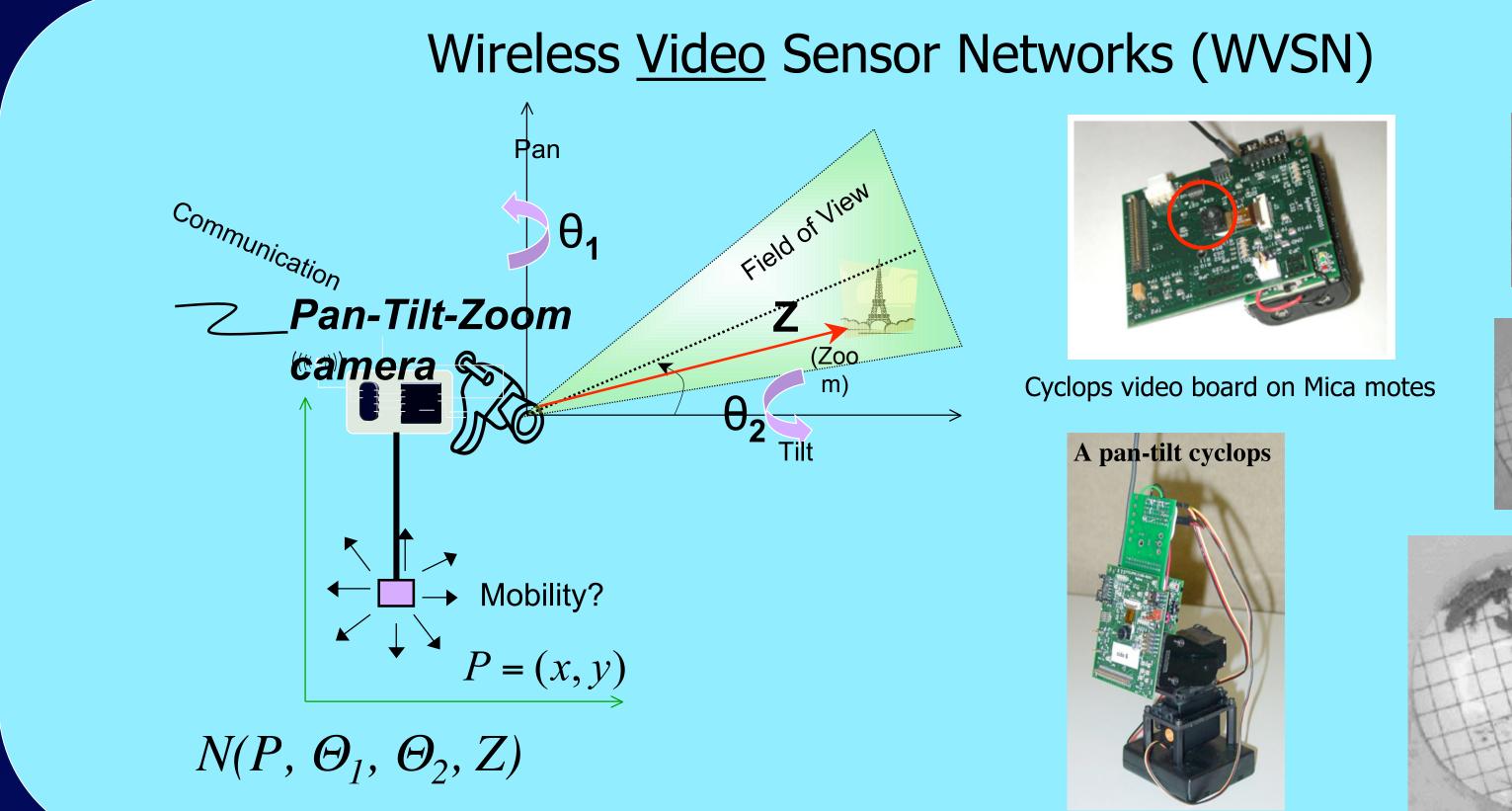


Scalar value of some simple environmental parameter

Simple rectangular or circular geographical sensing area

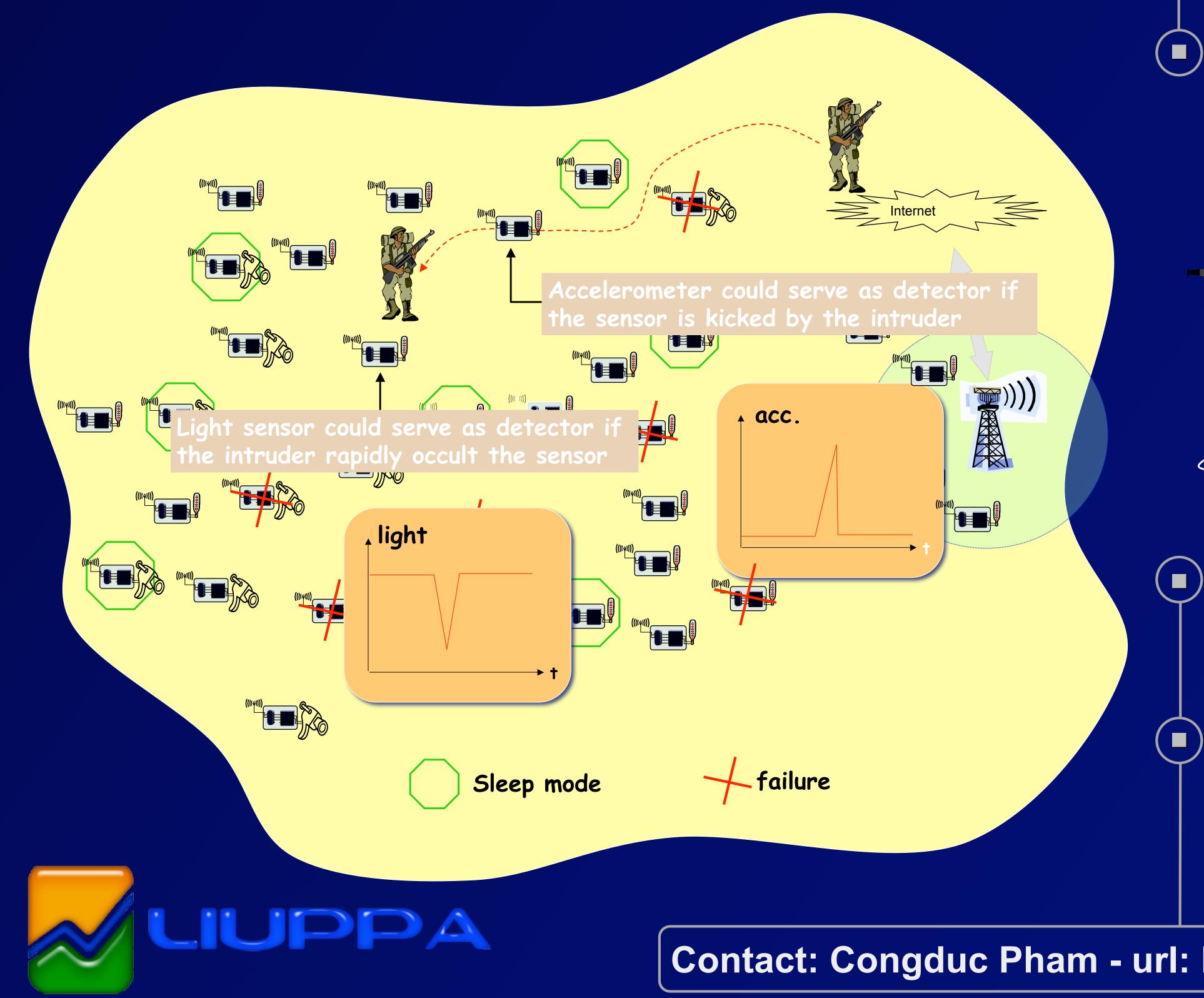
Same sensed value in any direction

No mobility



WVSN: Challenges & design space

RULE 1: don't miss important events! **RULE 2:** high-quality not necessary good! **RULE 3:** don't put all your eggs in the same basket!



Provide Quality of Service: reliability, availability, multi-resolution

Take into account the needs of the applications!

Multi-views for scene disambiguation, heterogeneity and multi-tiers organization



With scalar sensors, event's position determines the set of active sensor. Not true anymore with video sensors

Coverage is more complex, determination of which sensor to wake up is not trivial as pan-tilt-zoom features increase the number of eligible sensor nodes

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