

# A declarative approach for Hierarchical-organized Wireless Sensor/Actor Network

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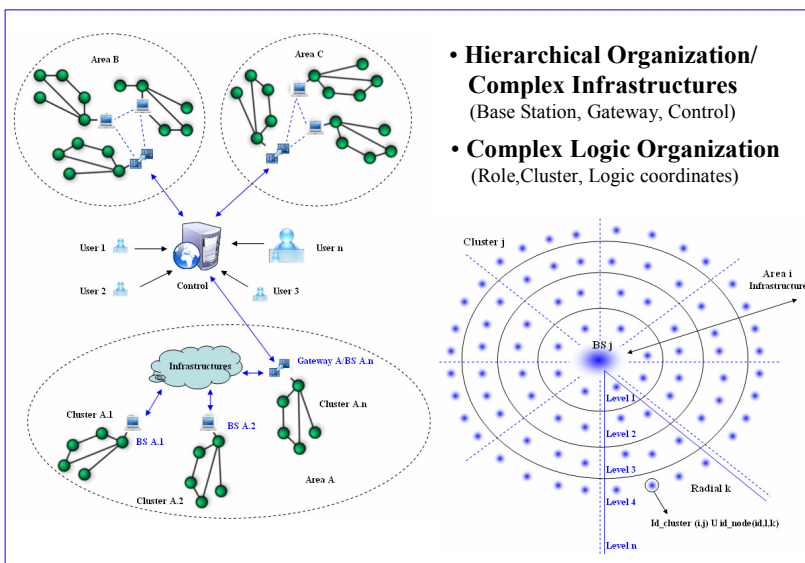
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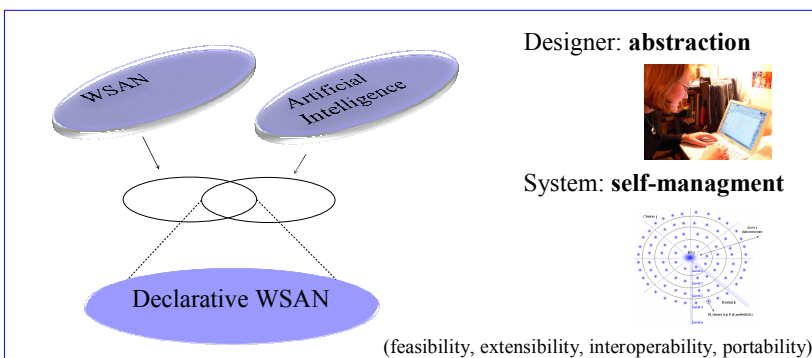
## 1. Reference Network



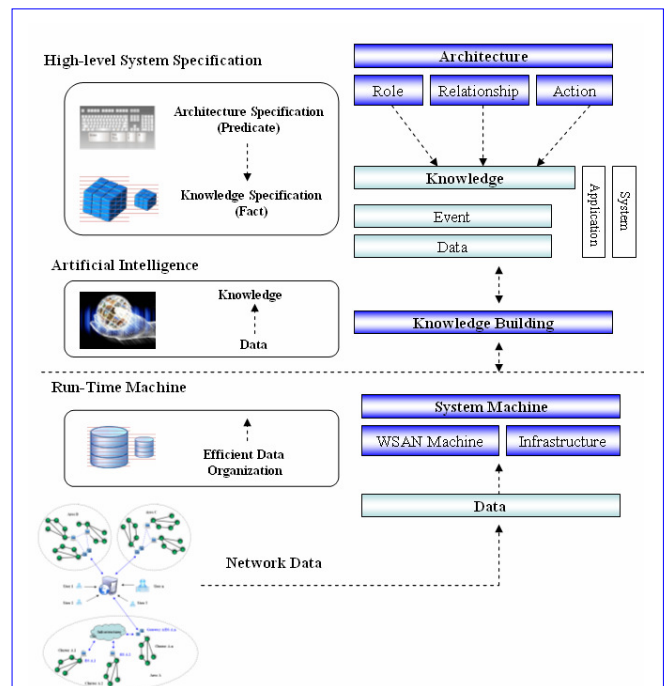
## 2. Related Work

- **Languages:** Declarative languages for WSN
- **Code Generation:** Automatable NesC code generation
- **Architecture specification:** Full-declarative architecture specification

## 3. Goals



## 4. Preliminary Architecture



1. Standard Run-Time Machine
2. Standard Middleware
3. Customizable high-level design environment

- Data Model
- Standard Interfaces

## 5. Open Issues

- **Architecture:** Special Roles into clusters and related hardware capabilities
- **Standardization and Normalization:** Data model and Standard Interfaces
- **Languages:** alternative at Prolog-like languages
- **Analisis:** Evaluation of limitations