

Advancing Spectrum Science: Rely on Domain Knowledge or Handoff to Machine Learning Models?

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Lessons learned

- Dissertation on model-based methods for localization
- ML methods from [Bahl 2000] won and now form the basis for indoor navigation apps

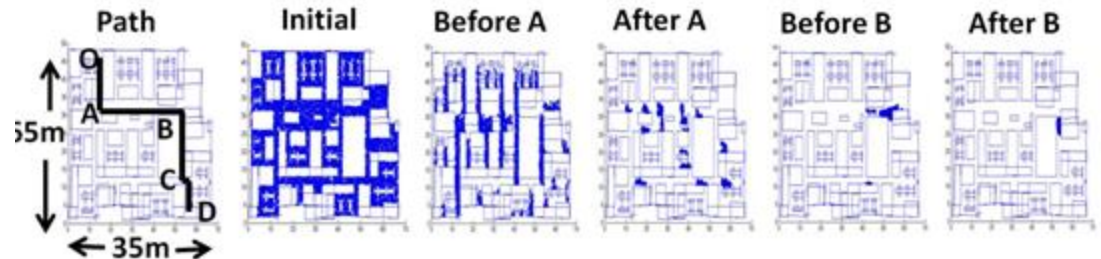
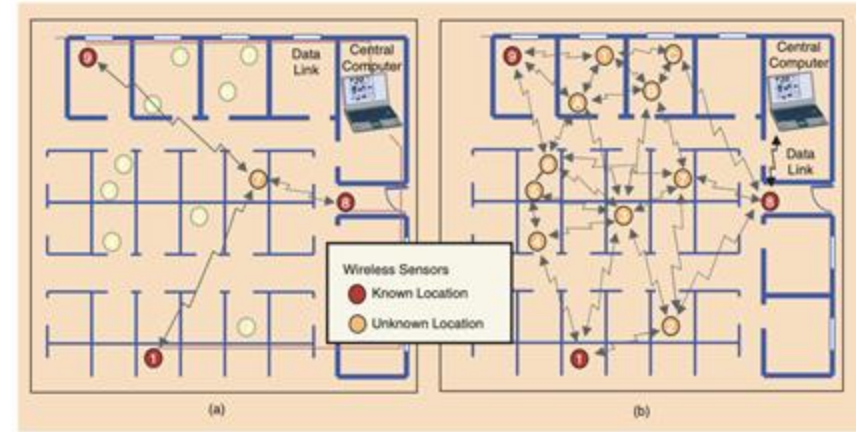


Figure 11: An example run of Zee

Domain Science

The line
is blurry

and
moving

AI / ML Models

When are AI / ML models best for spectrum science?

- Statistical model is too challenging



- Model-building is infrequent



- Data is plentiful and cheap



- When the potential harm to people is low

