IS research close to SE research

IS research primary mission

"… to study the effective design, delivery, use and impact of information technologies" – Keen 1987

Summary – Parker+ 1994

Summary:
- Sources of criteria for good "systems development" research:
  - Smith 1990 – scientists must produce work that is original and is valued by others in the same field
  - Nunamaker 1991 – building a system in and of itself does not constitute research
  - Parker 1994 – "If it is clearly not sufficient, however, that a product of IS research be useful – it must also be used."

- Identification of the pattern used in most PDL research:
  - Understand/Describe
  - Prototype
  - Evaluate

Significance:
- Explains why development, especially for technology transfer should be part of research activities (i.e., provides a framework to make the case)
- Identified sources of criteria for good "systems development" research
- Identification of PDL research pattern

Good "systems development" research?

1. Significance
   a. Theoretical?
   b. Practical?

2. Internal validity
   a. Do methods work?
   b. Have rival methods been considered?
   c. Sufficient evidence?

3. External validity
   a. Concurrency with prior theory?
   b. Applicable elsewhere?

4. Objectivity/confirmability/auditability
   a. ..