

Tools Evaluation

Technology Enhanced Learning for
Computer Science

Why do we need evaluation?

- More and more heterogeneous tools
- Need for a shared methodology for researchers
- Need for reassurance for end-users (practitioner, decision maker, parents, ...)

Why do we need to resolve the challenge?

- Develop explicative models to influence design
- Offer fact-based recommendations on tools
- Ensure credibility of tools enhancing computer science education and research
- Allow recognition of tools with high potential

How to proceed?

We need to map the field of evaluation, including:
Hypotheses, methodologies, results, tools

1. Identifying relevant literature
2. Working with other disciplines to identify rigorous practices
3. Leading to an ontology that would support sharing authoritative results and methods to help practitioners and evaluators
4. Working towards applying the ontology to facilitate the use of repositories by non-expert practitioners
5. Disseminating on a wide scale the results to enhance CSE and research

Success indicators

1. Literature corpus that gathers sufficient information on the map dimensions
2. An interdisciplinary assessment of the identified corpus
3. An implemented ontology representing the map
4. A user interface to easily retrieve relevant evaluation data and methods on an existing repository
5. A sustainable and scalable web site for the CSE and research community

Success factors and risks

- Success factors
 - Openness of the research community to interdisciplinary work
 - Available technology
- Risks
 - Scale of human, technical and financial means
 - Take-up by the CSE and research community