

Boldi et al. (2009)

- Used cognitive aspects of searchers issuing the query:
- Generalization:** user wants broader information than was obtained from the current search
 - Specialization:** user narrows down the current search
 - Mission Change:** user changes the search topic to an entirely different one
 - Parallel Move:** user modifies the current query to change the search aspect with the same context Learners are the also knowledge producers, and discerning knowledge discoverers / navigators
 - Error Correction:** user’s search intent does not change in the period before and after reformulation; examples are correcting a misspelled term and/or performing a query paraphrase

Liu et al. (2010)

- Used linguistic properties of two successive queries:
- Generalization:** successive queries contain at least one term in common; second query contains fewer terms than first query
 - Specialization:** successive queries contain at least one term in common; second query contains more terms than first query
 - Word Substitution:** successive queries contain at least one term in common; second query has same length as first query, but contains some terms that are not in first query
 - Repeat:** successive queries contain exactly the same terms, but the format or ordering of these terms may be different
 - New:** successive queries do not contain any common terms

Generalization and *Specialization* are identical in both taxonomies. *Parallel Move* can contain *Word Substitution*, *Repeat*, or *New* QRTs. *Mission Change* will generally have *New* QRTs. *Error Correction* will possibly have *Repeat* or *Word Substitution*.