




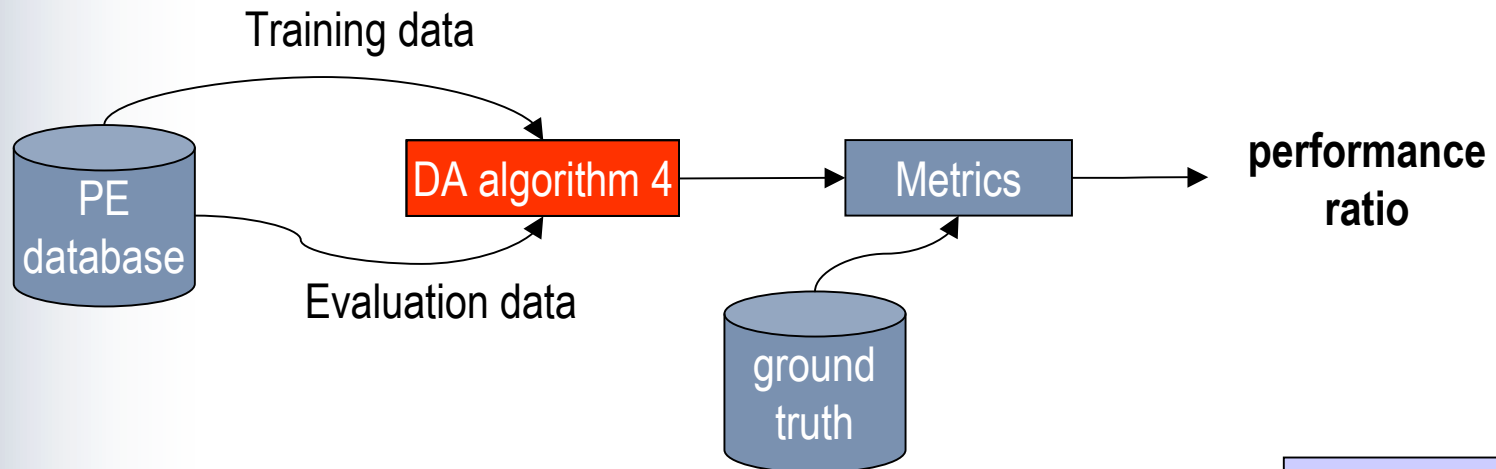
DAS 2004

**Performance Analysis and Evaluation
Working Group**

September 10, 2004

Performance Analysis and Evaluation

- Participants: F. Lotti, P. Heroux, S. Adam, G. Sanchez, E. Valveny, P. Dosch, J. Lladós
-  Mostly in the field of Graphics Recognition
- A performance evaluation system:



Ranking:

DA alg 2
DA alg 3
DA alg 1
DA alg 4

- Performance Evaluation has an increasing interest in Doc Analysis
 - There is a need to validate and compare the research results
 - Different resources available: handwriting, layout analysis, symbol recognition, web analysis, etc.
- Issues to take into account:
 - Variability. Each DA task requires different issues to take into account when validating its performance.
 - Real vs. Synthetic data. Software to generate ground truths in different conditions.
 - Subjectiveness of PE (example: vectorization). Different PE metrics? depending on the goal (precision, number of vectors, primitives...).
 - Processes involved in a pipeline can be better evaluated in terms of the performance of the subsequent processes.
 - Several efforts to make benchmarking databases (contests), but no maintenance and continuity.
 - People offers data but a few number of algorithms (source code, software modules, web services) are available.
 - Researchers working on close problems should unify efforts (sharing ground truths).
 - Standardization. Performance Evaluation on Performance Evaluation?

The role of IAPR Technical Committees

- TC10 (Graphics Recognition), TC11 (Reading Systems), TC5 (Performance Evaluation), and other more related to techniques useful for DA (TC1, TC2, TC3):
 - Should promote and moderate the creation of ground truths.
 - Should distribute the stuff among the corresponding communities.
- Contests in ICDAR2005 in Seoul and satellite workshops.

Please, contact TCs if you want to contribute with your methods and databases.

<http://www.iapr.org>