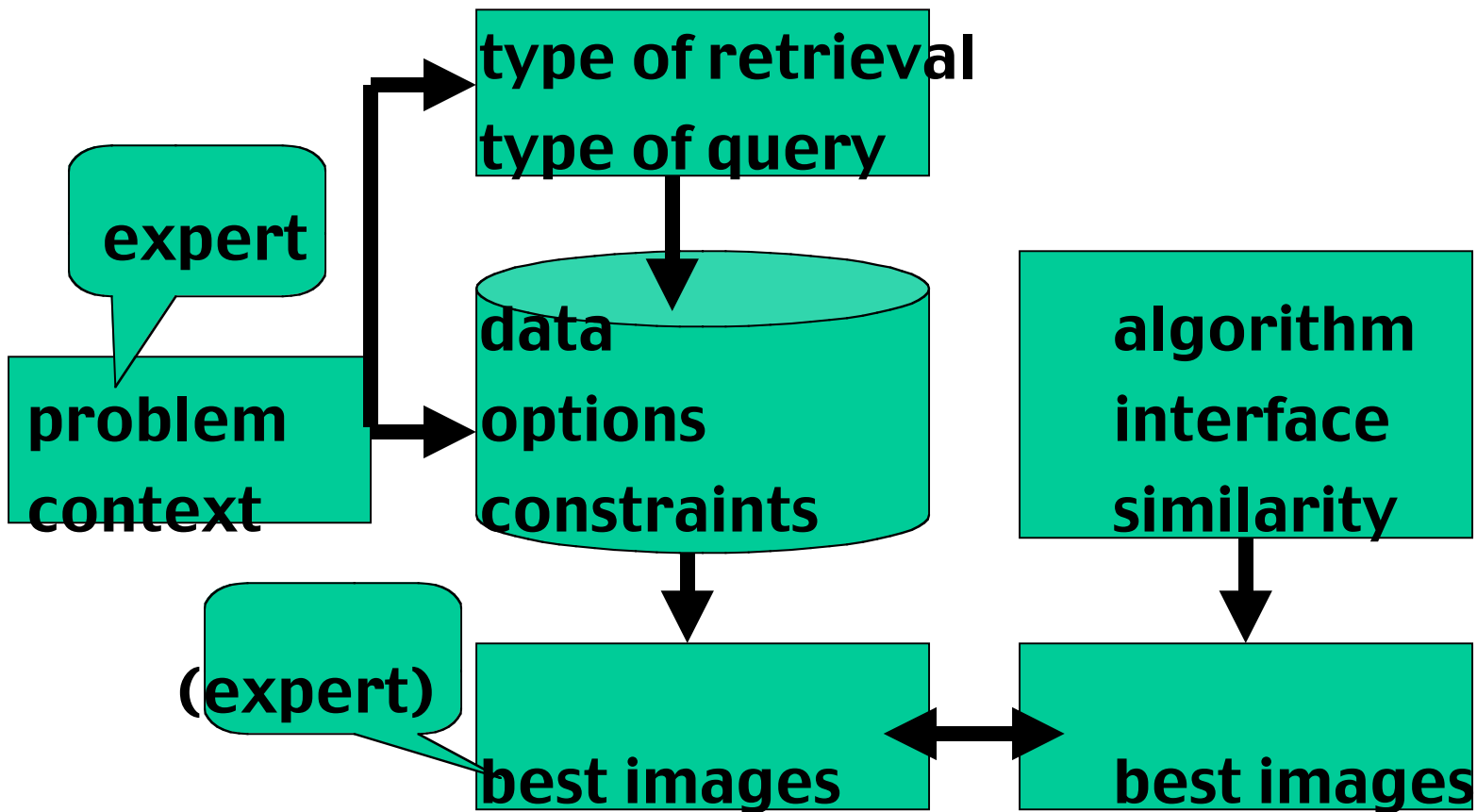
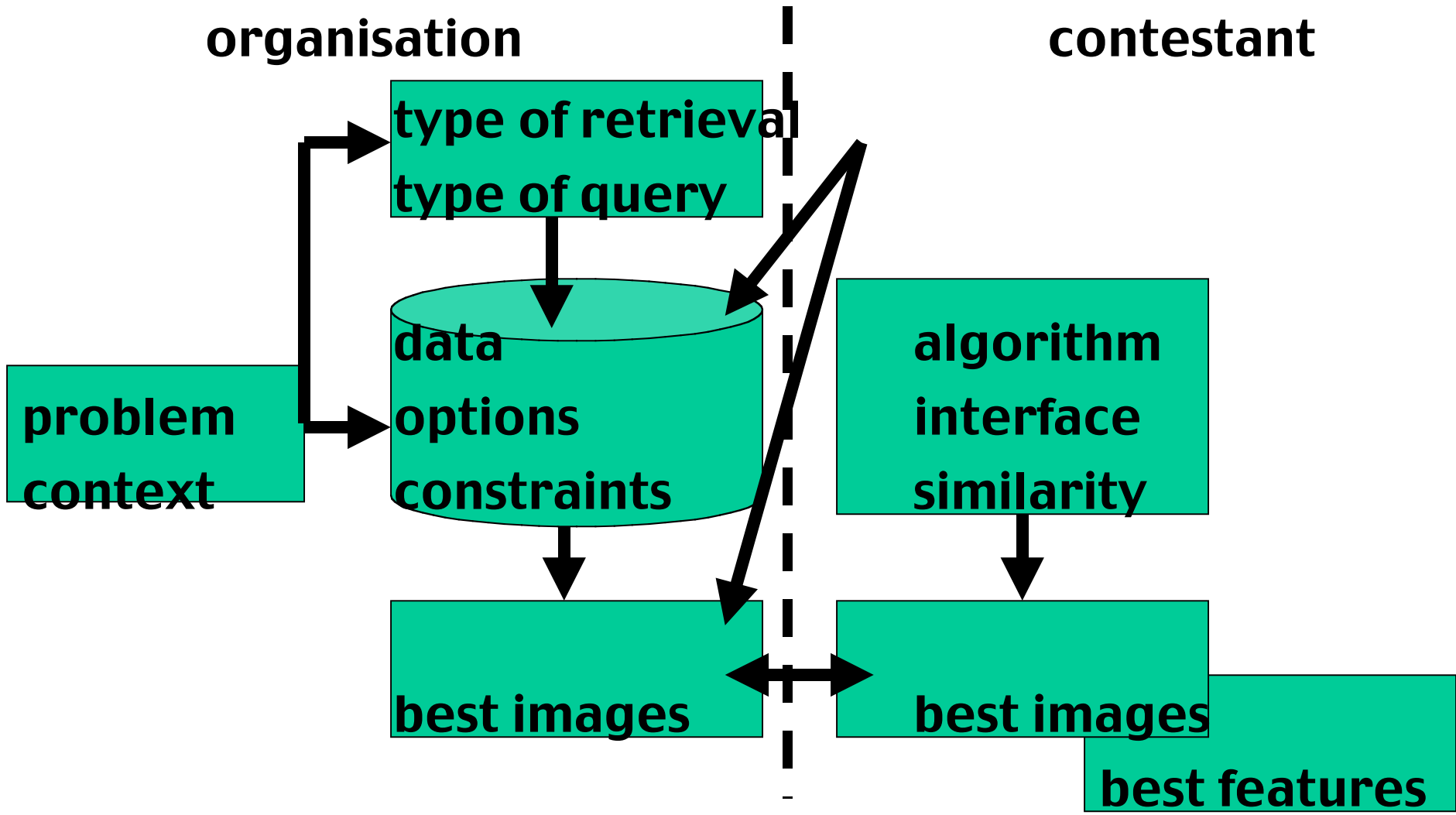


A CONTEST





Data

type

**images
(video)**

options

**data size
cost
annotation
sensor type
scope
...**

constraints

**invariance
coded
...**

Query and retrieval type

	<i>type</i>	<i>evaluation*</i>
query type	by value	user satisfaction
	by 1 example	error
	by N examples	error
	feedback	error, # of iterations
retrieval type	1 to 1	rank statistics
	1 to group	precision, recall or effectiveness
	1 to all of object	precision, recall or effectiveness
classification		false
positives/negatives		

**add to all: computational*

Application

S

pictures

entirely visual

expert

		
trademarks	x	x
fingerprints		x
faces	x	x
textiles	x	x
outdoor	x	
objects	x	
art	x	x
flowers	x	x
coins	x	x
stamps	x	x
fish	x	x
medical	x	x
Internet	x	x

Contest 1: man-made objects

Object database	copyright	no problem
UvAmsterdam	size	10,000 + 100*10 same
contestants	how to extend	each contestant
	cost	??
Flower database	annotation	obvious
Wageningen (NL)	scope	<u>colour</u> – same
object	scene variations	for 100: random pose for 10,000: cluttered
	sensor	common video
	coded	TIFF
Query type		by 1 example
Retrieval type		1 to all of object
Evaluation		precision and recall

Contest 2: Fish

Database	copyright	no problem
2.a coins	size	1,000 + 10,000 same
2.b fingerprints	how to extend	no
	cost	??
	annotation	by expert
	scope	<u>shape</u> – same
object	scene variations	random view but with proper
	sensor	
segmentation		
common video		
	coded	TIFF
Query type		by 1 example
Retrieval type		1 to all of object
Evaluation		precision and recall

Contest 3: Textile

Database	copyright	no
3.a tiles	size	10,000 + 100*10
3.b flowers	how to extend	each contestant
	cost	??
	annotation	by expert
	scope	<u>texture</u> – same
textile and lighting conditions	scenevariations	for 100: pose
		for 10,000: fixed pose and
illumination		
	sensor	2D of 2D
	coded	TIFF
Query type		by 1 example
Retrieval type		1 to all of object

Contest 4: Trademarks

Database	copyright	no	
public trademarks	size		10,000 * 100
CD	how to extend	no	
4.a faces	cost	??	
4.b outdoor	annotation	by expert on the 100	
4.c stamps	scope		<u>colour, shape</u>
	<u>and texture</u>		-
	similar trademark		
	scene variations	minor in uprightiness	
		some in scale	
	sensor		2D of 2D
	coded		TIFF
Query type		by 1 example	
Retrieval type		ranking	

Contest 5: Paintings

Database	copyright	??
CD's	size	1,000
Web-museum (Firenze)	how to extend cost	each contestant ??
contestants query	annotation	contestant on each
	scope	paintings
	variations scene	upright always
	sensor	frontal view,
white light		
	coded	JPEG not lossy
Query type		by 1 example
Retrieval type		rank
Evaluation		rank statistics

Quantitative

rank statistics

Rules (concept)

- 0. The contest is supervised by an international committee.**
- 1. A contestant will receive the data at least 1 month in advance**
 - + some trial queries**
 - + results for that trial query**
 - + formal description of the method of evaluation.**
- 2. At the day of the contest he/she will receive new data never used before to be used as query data. This leads to a result.**
- 3. The organisers match the result with the ideal outcome by the formal description of the evaluation.**
- 4. Irregularities are to be directed to the committee.**

Practicalities (preliminary)

0. The contest is (possibly) at SPIE 2001 in January.
1. The contest is performed on site / repeated on site.
2. The run is on the contestant's own portable / web-site.
4. The organising committee will overlook:
 - data sets + annotations per contest + rules + runs
5. One data keeper per contest will keep and maintain data set.
6. The distribution to contestants is per contest and is at the data keeper's convenience:
 - copyright protection;
 - by Web, CD;
 - in JPEG or TIFF;
 - file compressed or not;
 - EXCEL file for annotation and results

Data keepers

**1. man-made objects University of Amsterdam,
preliminary**

http://zomax.wins.uva.nl:5345/ret_fixed/index.html

1.a flowers DLO Wageningen (NL)

2 fish University of Surrey

<http://www.ee.surrey.ac.uk/Research/VSSP/imagedb/demo.html>

2.a fingerprints E.g. <ftp://ftp.cs.columbia.edu/jpeg/other/uuencoded>

2.b coins

3 textiles University of Freiburg, preliminary

3.b tiles

**4 trademarks University of Amsterdam,
preliminary**

4.a faces E.g. <http://www.ee.oulu.fi/research/imag/colour/pbfd.html>

4.b outdoor Corol Photostock

General data keepers

1. **Texture:** **Curet** <http://www.cs.columbia.edu/CAVE/curet/>
VisTex <http://www-white.media.mit.edu/vismod/imagery/VisionTexture/vistex>.
2. **Faces:** <ftp://whitechapel.media.mit.edu/pub/images/>
<http://www.ee.oulu.fi/research/imag/colour/pbfd.html>
3. **Fingerprints:** <ftp://ftp.cs.columbia.edu/jpeg/other/uuencoded/>