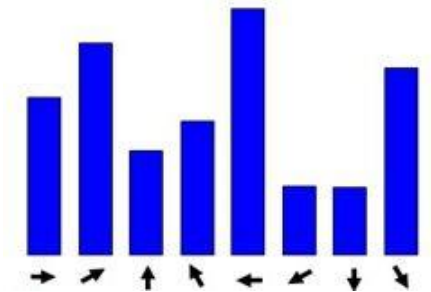
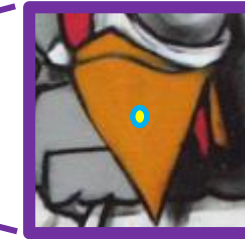
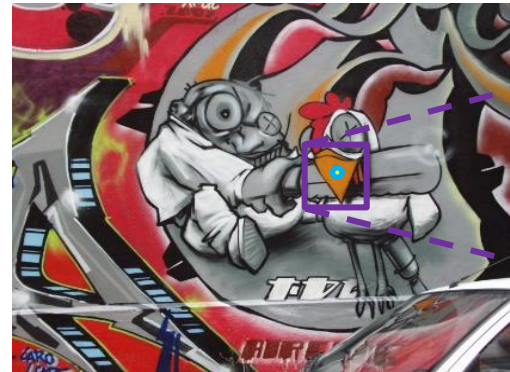
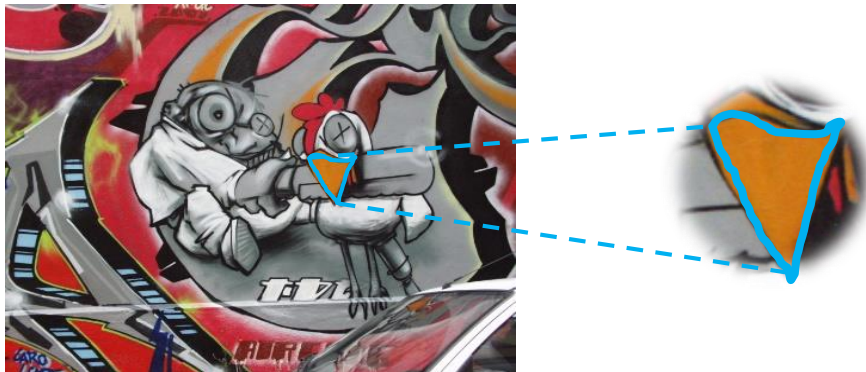
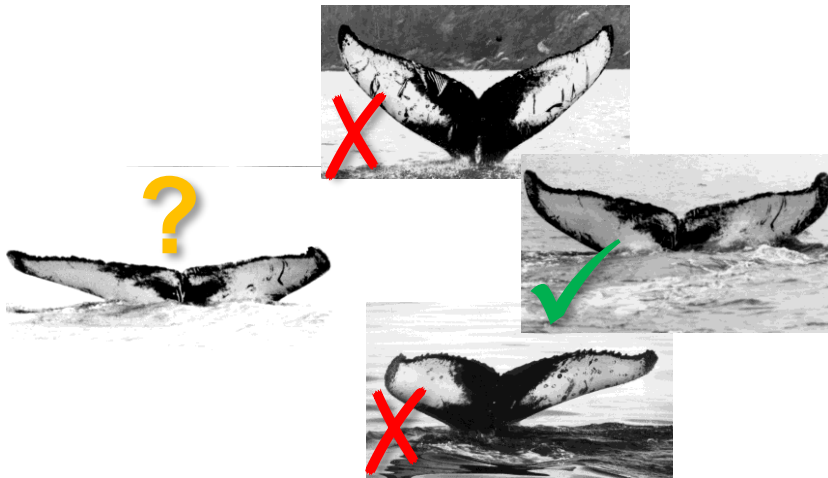


Local Shape and Moment Invariant Descriptor for Structured Images



Elena Rangelova



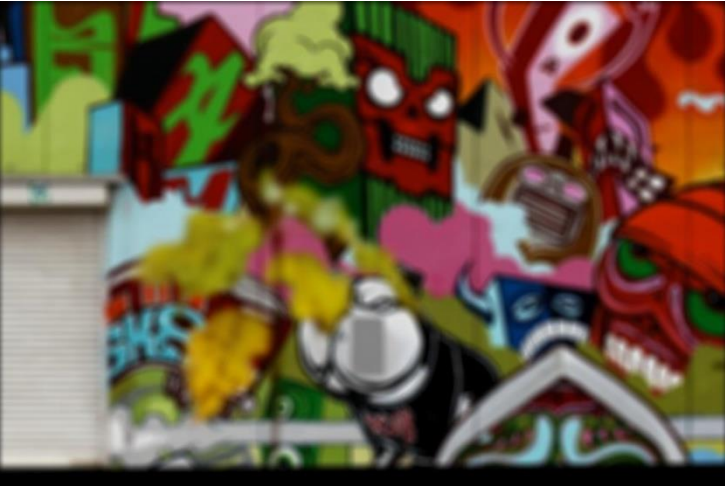
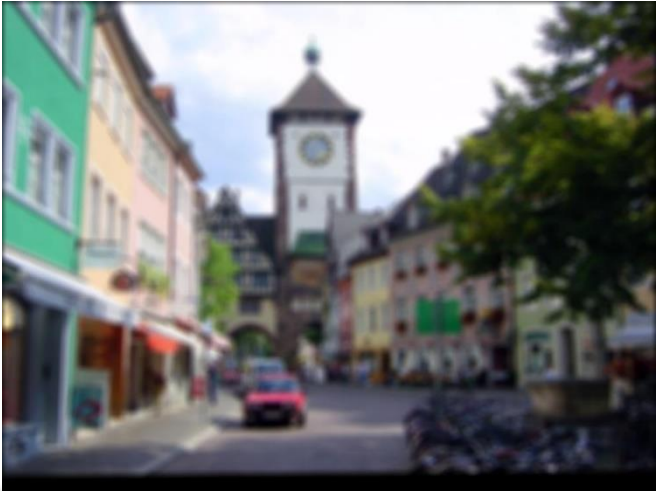


64, 128- dimensional
SURF, SIFT

Shape and Moment Invariant (SMI) descriptor

- Shape Invariants (SI)
- Affine Moment Invariants (AMI)
 - 16 irreducible AMIs of 4th order
- $4 \text{ SI} + 16 \text{ MI} = 20\text{-dimensional SMI}$

SMI versus SURF descriptors on MSER regions

Image 1	Image 2	SURF	SMI
		False Negative Score 0,096	True Positive Score 0,89
		False Positive Score 0,27	True Negative Score -0,11