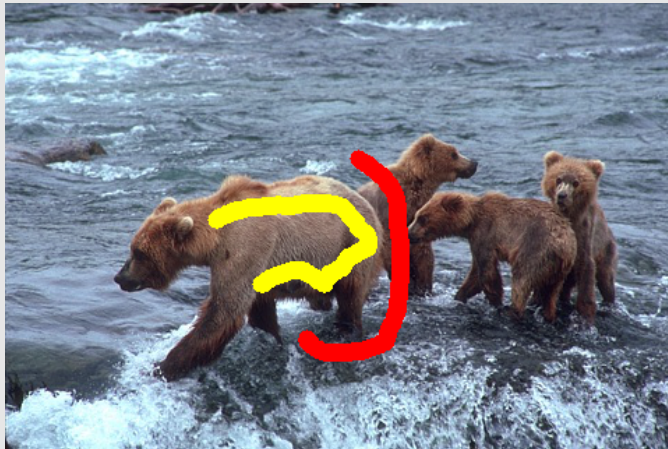


Intelligent understanding of user input applied to arc-weight estimation for graph-based foreground segmentation

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On the Improvement of Image Feature Matching under Perspective Transformations

Vilar F. da Camara Neto (FUCAPI)

Mario F. M. Campos (UFMG)

Visual features & matching

1. Input images



2. Feature extraction

- Geometric information (position, scale, orientation)
- Feature descriptor



3. Feature matching

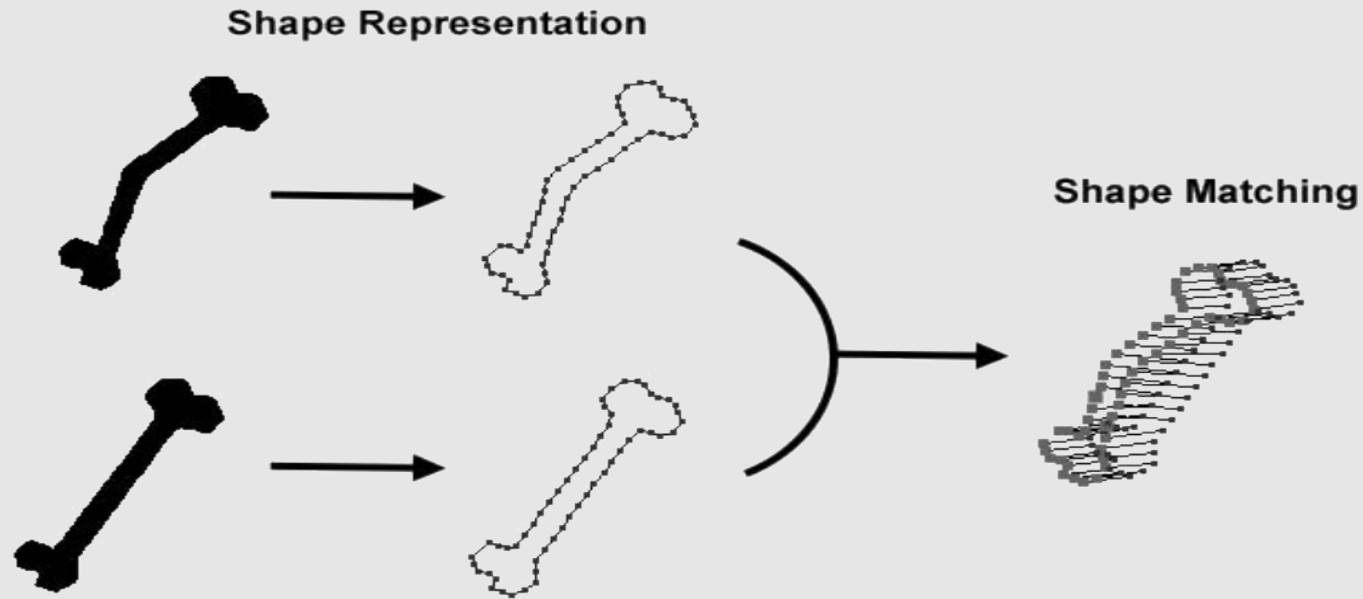
- Correspondence pairs

Proposed feature matching algorithm

- Uses both descriptors + geometric data → Outlier rejection
- Segments image into regions of consistent transformations → Large perspective changes, dynamic scenes



Sparse Representations for Efficient Shape Matching



- Quadratic assignment formulation
- BP optimization via min-convolution
- Polygonal approximations for contours