



ICIAP 2001

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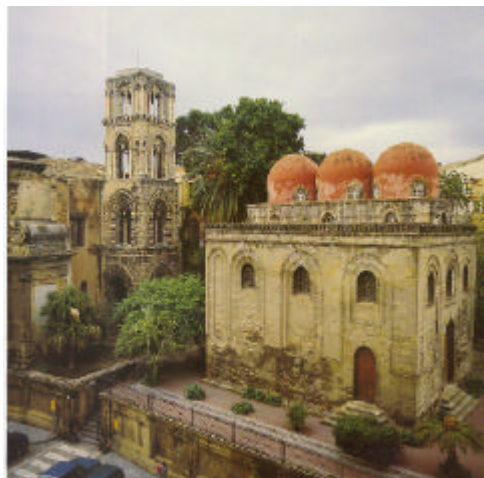
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First announcement

Early vision and image analysis

Visual processing starts from measurements (*feature extraction* and *representation*) on which *image operators* are applied to extract *shape* and *motion* primitives, *texture* and *color* information. In this phase the *active vision* paradigm plays a relevant role in *image segmentation* and *grouping* as well in *image* and *video sequence analysis*.

Pattern recognition and image inference

Higher level of visual processing regards *statistical*, *structural* and *syntactic* pattern recognition. *Neural networks* are considered useful tools for *learning* and *classification*. *Genetic algorithms* are becoming of great interest in the search of global solutions. *Model acquisition*, *digital geometry* and *shape reconstruction* techniques are important for *2D* and *3D object recognition*. *Spatial reasoning* needs new *spatial data structure* and *flexible inference rules*.

Visual processing for communication

Multimedia databases, *digital* and *video libraries* need efficient *image* and *video* methods for *compression* and *coding*. *Image databases* and *video processing* require suitable *indexing* and *retrieval* solutions. *Visual languages* allows the natural and optimized formulation of *visual computing*. Both *visual communication* and *human-computer interaction* are based on *advanced visual interfaces*.

Applications

Wide spectra of image analysis applications are welcome (*astronomy*, *biology* and *biomedicine*, *cultural heritage*, *OCR* and *document analysis*, *mobile robots* and *visual navigation*, *remote sensing* and *GIS*, *surveillance*, *smart sensors* and *dedicated architectures*, *visual inspection* and *quality control*,...). More emphasis will be done to real cases and working prototypes.

Important dates:

- February 28, 2001 Submission of full papers (≤ 10 pages).
- April 15, 2001 Notification of the acceptance.
- May 31, 2001 Camera ready manuscript due

See the site: <http://www.cere.pa.cnr.it/ICIAP/>