Size: 16.5 cm x 7.4 cm

FACE RECOGNITION SYSTEM

Network of
video cameras

Segmentation

Feature
extraction
(tracking)

Tracking

Feature
extraction
(classification)

Classification

Decision

List of
most likely
individuals

Video
frames

Regions of
interest (ROIs)

$$\mathbf{a} = \begin{bmatrix} a_1 \\ a_2 \\ ... \\ a_I \end{bmatrix} \quad \mathbf{b} = \begin{bmatrix} x \\ y \\ w \\ h \end{bmatrix}$$

Features vectors for
classification (**a**)
and tracking (**b**)

Biometric
data base

Models

Track numbers,
and classification
scores or tags

Individuals in a scene