

Training images



1st order IGO

2nd order IGO

3rd order IGO

Dictionary \mathbf{X}_1

Dictionary \mathbf{X}_2

Dictionary \mathbf{X}_3

CNRC

CNRC

CNRC

Residual \mathbf{r}_1

Residual \mathbf{r}_2

Residual \mathbf{r}_3

Sum rule fusion

Recognition
result



1st order IGO

2nd order IGO

3rd order IGO

\mathbf{y}_1

\mathbf{y}_2

\mathbf{y}_3

Test image

