

LIST OF FIGURES

1.1	Example of Region Label Annotation	4
1.2	Block Diagram of Region Label Annotation	4
1.3	Block Diagram of Superpixel Level Training	5
1.4	Block Diagram of Image Level Annotation Testing	5
2.1	Example of the procedure used to determine the ground truth for experimentation [1]	8
2.2	Sketch of fuzzy-based Contextual-cueing Label Propagation technique	10
2.3	Sketch of Label to Region by BI-Layer Sparsity Priors [2]	11
2.4	Mid-Level cues information illustration [3]	14
2.5	Illustration of multi-class SVM process [4]	17
3.1	Block diagram of superpixel level training	18
3.2	Block diagram of superpixel level training	19
3.3	Flow diagram of image sequence	20
3.4	Example SLIC superpixel result	22
3.5	Superimpose ground truth	23
3.6	Example of final ground truth labelling (a)top, (b)middle, and (c)bottom	24
3.7	Example of topological position of superpixel	24
3.8	Process diagram of superpixel training	26
3.9	Sample of Uniform LBP P=16, R=2 [5]	29
3.10	Process diagram of superpixel level annotation	31
3.11	Process diagram of label refining by Contextual Cueing	32
3.12	Appropriate scene selections	32
3.13	Neighborhood Relationship illustration	36
4.1	Example of (a) valid and (b) invalid samples	40
4.2	SVM Model Chart Confusion Matrix Comparison	46
4.3	Visualization of predicted label (1-7)	47
4.4	Visualization of predicted label (1-7-8)	48
4.5	Visualization of predicted label (3-4-7-8)	50