

**COMPUTER  
AIDED  
DIAGNOSIS**

**TACKLING THE SMALL SAMPLE SIZE PROBLEM**

**REDUCE FEATURE SPACE**

**IMAGE  
DECOMPOSITION**

*Chapter 4*

**TEXTURE  
ANALYSIS**

*Chapter 5*

**SPHERICAL  
BRAIN  
MAPPING**

*Chapter 6*

**INCREASE SAMPLE SIZE**

**SAFELY  
MERGE  
DATASETS  
(SWPCA)**

*Chapter 7*

**CREATE  
NEW  
SAMPLES**

*Chapter 8*