

Appendix A

Sample Test Images

See Figs. [A.1](#), [A.2](#), [A.3](#), [A.4](#).

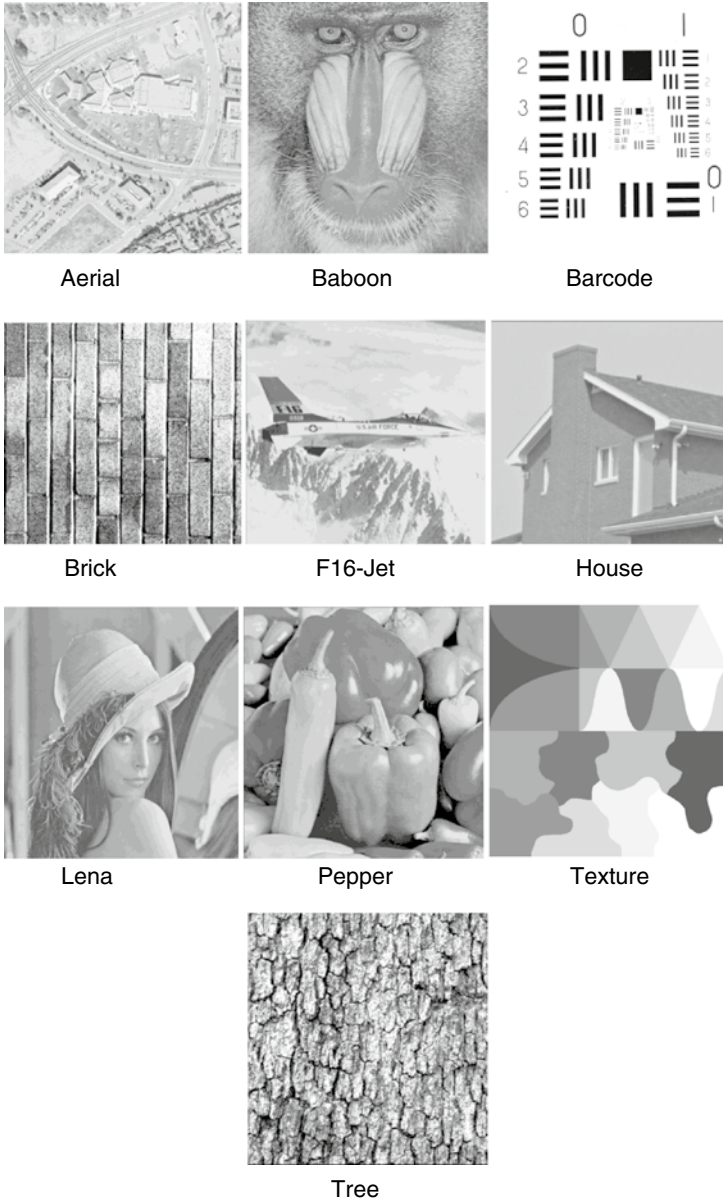


Fig. A.1 Selected Test Images from USC-SIPI Database *Source* USC-SIPI Image Database, <http://sipi.usc.edu/database/>, University of Southern California, Signal and Image Processing Institute



Fig. A.3 Test images from DIBCO Source Document Image Binarization Contest (DIBCO), <http://utopia.duth.gr/~ipratika/DIBCO2013/>; Accessed in December 2013



Fig. A.4 Reference images from DIBCO database Source Document Image Binarization Contest (DIBCO), <http://utopia.duth.gr/~ipratika/DIBCO2013/>: Accessed in December 2013

Index

A

AdOtsu, 9
ALLT, 10
Applications, 4, 65–68

B

Balanced histogram thresholding, 11
Bernsen, 6, 7
Binarization, 1, 2

D

Document image processing, 65
DIBCO, H-DIBCO, 11, 13

E

Evaluation Measures, 25–28

F

Face Detection, 68
Fingerprint recognition, 68
F-measure, 27

G

Gait recognition, 69

H

Hand gesture recognition, 67

I

Iris recognition, 68
Iterative Partitioning, 17–23

J

Johannsen, 6, 9

K

Kapur, 6, 7
Kittler, 6, 8

M

Medical image processing, 66
Misclassification Error (ME), 25
MSE, 27

N

Niblack, 6, 7
Noise immunity, 41–43

O

OCR, 65
Otsu, 6

P

Precision, 27
PERR, 27
PSNR, 27

RRecall, [27](#)Reference image, [31](#)Relative foreground Area Error (RAE), [25](#)**S**Sauvola, [6](#), [7](#)SNR, [27](#)SVR, [11](#)**T**Threshold, [3](#)**U**USC-SIPI, [28](#)**V**Video processing, [66](#)