ERRATA

to the book

AN INTRODUCTION TO 3D COMPUTER VISION TECHNIQUES AND ALGORITHMS

by Bogusław Cyganek & J. Paul Siebert

2nd edition

On page 203, 6th line from bottom, there is “it is a true measure”, it should be “it is a true metric”

Page 265:

There is: “This way the nonlinear extended structural tensor is obtained”
Should be: “This way the extended structural tensor is obtained” (remove “nonlinear”).

Eq. (3.70) the inner parts should be squared, as follows:

$$s_1 = \left[\frac{1}{K} \sum_{i=1}^{K} \left(p_{1i} - m_1 \right)^2 \right]^{-\frac{1}{2}}, \qquad s_2 = \left[\frac{1}{K} \sum_{i=1}^{K} \left(p_{2i} - m_2 \right)^2 \right]^{-\frac{1}{2}}, \tag{3-70}$$

Page 48:

The computed matrices should be as follows:

N_l=

0.013402478619729395	0	-2.0522545386460638
0	0.021388310158607295	-3.0077311160541509
0	0	1

N_r=

0.013133190919242407	0	-2.0816107606999217
0	0.020957134270099188	-2.9523362903002233
0	0	1

F computed with the linear method (3.58)

-5.5237692404362082e-006	0.00010990989707108172	-0.011067570380670449
-0.00010057031559159472	-1.2827377844104612e-006	0.0048247139141985029
0.01105943628801912	-0.0056613365289311475	0.067319233683856061

F after rank two enforcement (3.63)

-5.5236432577356054e-006	0.00010991017528465242	-0.011067570377970432
-0.00010057005991471525	-1.2821731610259562e-006	0.0048247139196780772
0.01105943629040706	-0.0056613365236577199	0.067319233683907215

Left epipole (3.36)

The left epipole : (-0.412489, -0.91092, -0.00884032) ==> (46.66, 103.041)
The right epipole : (0.441982, 0.896985, 0.00837757) ==> (52.7578, 107.07)

Right epipole (3.37)

The left epipole : (-0.412489, -0.91092, -0.00884032) ==> (46.66, 103.041)
The right epipole : (0.441982, 0.896985, 0.00837757) ==> (52.7578, 107.07)

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N_l=

0.014379752679738836	0	-1.8612792374836955
0	0.014555086945242829	-1.834850648034674
0	0	1

N_r=

0.014362686025378994	0	-1.8608655081631658
0	0.014503419584298023	-1.8274308676215509
0	0	1

F computed with the linear method (3.58)

6.0617288696097094e-008	8.4527688830258189e-006	-0.0015132219609657036
-8.9067031651455602e-006	4.408710979048275e-007	0.011372603277345879
0.001556299054217683	-0.011367936368037623	-0.010284415972318772

F after rank two enforcement (3.63)

2.7098978458030124e-008	8.4482037428318347e-006	-0.0015132219870527856
-8.9111857455893839e-006	4.4026057762196896e-007	0.011372603273857113
0.0015562990291345927	-0.011367936371453898	-0.010284415972338291

Left epipole (3.36)

The left epipole : (0.990852, 0.134952, 0.000771173) ==> (1284.86, 174.996)
The right epipole : (0.991175, 0.132555, 0.000741736) ==> (1336.29, 178.709)

Right epipole (3.37)

The left epipole : (-0.990852, -0.134952, -0.000771173) ==> (1284.86, 174.996)
The right epipole : (0.991175, 0.132555, 0.000741736) ==> (1336.29, 178.709)

Page 424:

In equations (12.16) and (12.17) there should be the squared Euclidean distance L2.
