

Errata of *An Invitation to 3-D Vision*

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Typos are listed below in the order in which they appear in the book. If you find additional typos in the book, please report to “yima@uiuc.edu,” and your help will be greatly appreciated. We hope that these typos will be corrected in the paper edition.

- Page 90, on line 4, “... arg min ...” should be “... arg max ...”
- Page 101, in the equation after (4.46) and before (4.47), the two “ $f[x]$ ” should be “ $f[k]$.”
- Page 102, in equation (4.49), “ $f[x]$ ” should be “ $f[k]$.”
- Page 130, in Figure 5.8, the black defects in the figure should not be there.
- Page 130, in Figure 5.9, “ x_1 ” on the right hand side of the figure should be “ x_2 ” that represents the second image of the point p .
- Page 118, on line 15, “... is less then eight ...” should be “... is less than eight ...”
- Page 139, in step 2 of Algorithm 5.2, “Compute the eigenvalues ...” should be “Compute the singular values ...”
- Page 166, at the end of line 12, “... the unkwns are ” should be “... the unknowns are”.
- Page 174, on line 18, “ $\langle u, v \rangle_S = v^T S v$ ” should be “ $\langle u, v \rangle_S = u^T S v$.”
- Page 337, in the first paragraph, “Although constraints ...” should be “Constraints ...”
- Page 347, in the last sentence of the first paragraph, the definition of $H_0 = R_0 + \frac{1}{d} T_0 N^T$ should be replaced as $H_0 \doteq [R_0(1), R_0(2), T_0]$ where $R_0(1), R_0(2)$ are the first two columns of R_0 .
- Page 348, in the sentence above equation (10.13), similar to the previous typo, the matrix “ $H_0 = R_0 + \frac{1}{d} T_0 N^T$ ” should be replaced as “ $H_0 \doteq [R_0(1), R_0(2), T_0]$ ” where $R_0(1), R_0(2)$ are the first two columns of R_0 .
- Page 354, in the second paragraph, “..., we assume that R is of the form $R = e^{j\hat{\omega}\theta}$...” should be “ $R = e^{\hat{\omega}\theta}$,” without the imaginary unit j in the exponent.
- Page 354, in the equation, the second column of the matrix, “ $\text{Re}(v_2) \sin(\alpha) + \text{Im}(v_2) \cos(\alpha)$ ” should be “ $\text{Re}(v_2) \cos(\alpha) - \text{Im}(v_2) \sin(\alpha)$.”
- Page 355, line 6 from the end: “and T as the x -axis.” A prime is missing on T and it should be “and T' as the x -axis.”
- Page 367, in the table 10.2, the matrix $H_0 : R_0 + \frac{1}{d} T_0 N^T$ should be replaced by the matrix $H_0 : [R_0(1), R_0(2), T_0]$.

Page 369, in Exercise 10.8, subproblem 1, “..., i.e. $\underline{R}' = e^{j\hat{\omega}}$, ...” should be “ $\underline{R}' = e^{\hat{\omega}}$,” again without the imaginary unit j in the exponent.

Page 492, the reference [Faugeras and Lustman, 1988] should be in the International Journal of Pattern Recognition in Artificial Intelligence, not PAMI.

Page 500, the reference [Plamer, 1999] should be by “S. E. Palmer,” not “S. E. Plamer.”