Errata

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Abstract

This document tracks the errata of Kacper Pluta, Guillaume Moroz, Yukiko Kenmochi, and Pascal Romon. Quadric Arrangement in Classifying Rigid Motions of a 3D Digital Image, pages 426–443. Springer International Publishing, Cham, 2016. ISBN 978-3-319-45641-6. doi: 10.1007/978-3-319-45641-6_27. URL http://dx.doi.org/10.1007/978-3-319-45641-6_27.

- 1. In the article we said that the machine has 40 cores. While we should rather say that there are 20 physical and 20 virtual cores.
- 2. Introduction, in the second paragraph [for a diameter of an image patch] $_r^{1:1}$
- 3. Section 2.1, in the last paragraph [A digitized rigid motion] $_{r}^{1:2}$
- 4. Section 4, in the first paragraph [The sweeping plane stops between two event points and we intersect quadrics related to them with the sweeping plane] $_{r}^{1:3}$
- 5. Section 4.4, the first paragraph: [At such a midpoint we intersect the set of quadrics with the sweeping plane] $_r^{1:4}$
- 6. In the captions of Figure 5 and Figure 6: [intersection] $_{r}^{1:5}$
- 7. In Lemma 2, $[K_{\infty}(\rho_{|S}) \subset \{a \mid M(a) \text{ has rank at most } 1\}.]_r^{1:6}$
- 8. In the proof of Lemma 2, [Thus K_{∞} is a subset of a such that M(a) has a rank less than or equal 1] $_r^{1:7}$
- 9. The symbol p used just after the definition 1 and in the proof of lemma 2 represents a 3D point, thus it should be replaced with \mathbf{p} .

 $^{^{1:1}}$ was: for a diameter of a subset of an image patch

 $^{^{1:2}}$ was: The digitized rigid motion

 $^{^{1:3}\}mathrm{was}$. The sweeping plane stops between two event points and we project quadrics related to them onto the sweeping plane

^{1:4} was: At such a midpoint we project the set of quadrics onto the sweeping plane

 $^{^{1:5}}$ was: projection

^{1:6}was: $K_{\infty}(\rho_{|S}) = \{a \mid M(a) \text{ has rank at most } 1\}.$

^{1.7} was: Thus K_{∞} is the set of a such that M(a) has a rank less than or equal 1

- 10. In the last phrase of the lemma's 2 proof $[\alpha = C_{\inf}]_r^{1:8}$.
- 11. In the section 4.1, the bullet list: $[a \in K(\rho_{|S_i}) \cup K_{\infty}(\rho_{|S_i})]_r^{1:9}$
- 12. In the first phrase of the section 6.1: $[1260]_r^{1:10}$
- 13. In the section 3.2, the term $(2k_i 1)$ for i = 1, 2, 3, in the polynomials $q_1[\mathbf{v}, k_1], q_2[\mathbf{v}, k_2]$ and $q_3[\mathbf{v}, k_3]$ should have been multiplied by $(1 + a^2 + b^2 + c^2)$

 $[\]begin{array}{c} \hline 1:8 \, \text{was:} \ m = C_{\inf} \\ 1:9 \, \text{was:} \ a \in K(\rho_{|C_i}) \cup K_{\infty}(\rho_{|C_i}) \\ 1:10 \, \text{was:} \ 441 \end{array}$