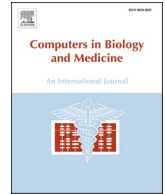




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Corrigendum to “Methods and datasets for segmentation of minimally invasive surgical instruments in endoscopic images and videos: A review of the state of the art” [Comput. Biol. Med. 169 (2024) 107929]

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The authors regret that the SAR-RARP50 dataset is missing from the description of publicly available datasets presented in Chapter 4.

To ensure the comprehensiveness of the chapter, one entry each in Tables 1 and 2 and a short paragraph in Chapter 4.10 have to be added.

The following entry must be added to Table 1, together with the corresponding reference [1] in the bibliography:

Table 1

SAR-RARP50	[1]	https://www.synapse.org/#!Synapse:syn27618412/wiki/616881
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The following entry must be added to Table 2:

Table 2

SAR-RARP50	-	✓	1920	Radical	-	human	16250	50
			×	Prostatectomy				
			1080					

The following paragraph must be added to Chapter 4.10:

The dataset for performing the “SAR-RARP50: Segmentation of surgical instrumentation and Action Recognition on Robot-Assisted Radical

Prostatectomy Challenge” [1] in 2022 consists of 50 procedures with a total of 16250 annotated images showing radical prostatectomy performed with the DaVinci Si system. All images were captured at a resolution of 1920 × 1080 pixels, and annotations are available for the recognition of surgical actions as well as for the semantic segmentation of surgical instruments. The frames were labeled at a frequency of 1 FPS, and nine categories were used for semantic segmentation, divided into six non-tool objects and three part-level categories for shaft, wrist, and instrument claspers.

The authors would like to apologise for any inconvenience caused.

References

- [1] Dimitrios Psychogyios, Emanuele Colleoni, Beatrice Van Amsterdam, Chih-Yang Li, Shu-Yu Huang, Yuchong Li, Fucang Jia, Baosheng Zou, Guotai Wang, Yang Liu, Maxence Boels, Jiayu Huo, Rachel Sparks, Prokar Dasgupta, Alejandro Granados, Sebastien Ourselin, Mengya Xu, An Wang, Yanan Wu, Long Bai, Hongliang Ren, Atsushi Yamada, Yuriko Harai, Yuto Ishikawa, Kazuyuki Hayashi, Jente Simoens, Pieter DeBacker, Francesco Cisternino, Gabriele Furnari, Alex Mottrie, Federica Ferraguti, Satoshi Kondo, Satoshi Kasai, Kousuke Hirasawa, Soohee Kim, Seung Hyun Lee, Kyu Eun Lee, Hyoun-Joong Kong, Kui Fu, Chao Li, Shan An, Stefanie Krell, Sebastian Bodenstedt, Nicolas Ayobi, Alejandra Perez, Santiago Rodriguez, Juanita Puentes, Pablo Arbelaez, Omid Mohareri, Danail Stoyanov, SAR-RARP50: Segmentation of surgical instrumentation and Action Recognition on Robot-Assisted Radical Prostatectomy Challenge, 2023 arXiv preprint, <https://arxiv.org/pdf/2401.00496.pdf>.

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