Literatur zum Artikel

Künstliche Intelligenz in der Gefäßchirurgie

1. Chang Y (2019) Improving the Otsu method for MRA image vessel extraction via resampling and ensemble learning. Healthc Technol Lett 6: 115–120
2. Dekavalla M, Argialas D (2018) A region merging segmentation with local scale parameters: applications to spectral and elevation data. Remote Sens 10: 2024
3. Yin ZX, Xu HM (2022) An unsupervised image segmentation algorithm for coronary angiography. BioData Min15: 27
4. Funes-Lora MA, Thelen BJ, Shih AJ, et al (2022) Ultrasound measurement of vascular distensibility based on edge detection and speckle tracking using ultrasound DICOM data. ASAIO J 68: 112–121
5. Preim B, Botha C (2014) Image analysis for medical visualization. In: Visual computing for medicine, Morgan Kaufmann, San Francisco (USA), S 111–175
6. Smistad E (2015) Medical image segmentation for improved surgical navigation. Doctoral thesis at NTNU, S 236. (http://hdl.handle.net/11250/2359703)
7. Blanco PJ, Ziemer PGP, Bulant CA, et al (2022) Fully automated lumen and vessel contour segmentation in intravascular ultrasound datasets. Med Image Anal 75: 102262
8. Biswas M, Saba L, Omerzu T, et al (2021) A review on joint carotid intima media thickness and plaque area measurement in ultrasound for cardiovascular/stroke risk monitoring: artificial intelligence framework. J Digit Imaging 34: 581–604
9. Center for Devices and Radiological Health. Artificial intelligence and machine learning (AI/ML)-enabled medical devices. U.S. Food and Drug Administration, https://www.fda.gov/medical-devices/software medical-device-samd/artificial-intelligence-and-machine-learning aiml-enabled-medical-devices. (Zugriff: 21.8.2023)
10. Viz.ai™ announces positive new data from large aortic dissection AI real-world study at the 2022 Veithsymposium™. Business Wire 2022. https://www.businesswire.com/news/home/20221118005105/en/Viz.ai%E2%84%A2-Announces-Positive-New-Data-From-Large-Aortic-Dissection-AI-Real-World-Study-at-the-2022-VEITHsymposium%E2%84%A2
11. Venna S. Viz.ai announces partnership to accelerate enrolment in BEACH trial. Clin Trials Arena. https://www.clinicaltrialsarena.com/news/viz-ai-partnership-enrolment-beach-trial/
12. Sevilis T, Figurelle M, Avila A, et al (2023) ISC Conference 2023, Abstract WP81: validation of artificial intelligence to limit delays in acute stroke treatment and endovascular therapy (VALIDATE). Stroke 54: AWP81
13. Camara JR, Tomihama RT, Pop A, et al (2022) Development of a convolutional neural network to detect abdominal aortic aneurysms. J Vasc Surg Cases, Innov Tech 8: 305–311
14. Lee R, Jarchi D, Perera R, et al (2018) Applied machine learning for the prediction of growth of abdominal aortic aneurysm in humans. EJVES Short Rep 39: 24–28
15. Lareyre F, Adam C, Carrier M, Raffort J (2023) Convolutional neural network for automatic detection and characterization of abdominal aortic aneurysm. J Vasc Surg Cases, Innov Tech 9: 101088
16. Raffort J, Adam C, Carrier M, et al (2020) Artificial intelligence in abdominal aortic aneurysm. J Vasc Surg 72: 321–333.e1
17. Park A (2022) Philips taps cydar to add AI, 3D mapping to mobile X-ray platform. https://www.fiercebiotech.com/medtech/philips-taps-cydar-to-add-ai-3d-mapping-to-mobile-x-rayplatform
18. Muluk SC, Elrakhawy M, Chess B, et al (2021) Successful endovascular treatment of severe chronic mesenteric ischemia facilitated by intraoperative positioning system image guidance. J Vasc Surg Cases Innov Tech 8: 60–65
19. Eves J, Sudarsanam A, Shalhoub J, Amiras D (2022) Augmented reality in vascular and endovascular surgery: scoping review. JMIR Serious 10: e34501
20. Mangina E, Almaksy A, Campbell A (2017) 3D modeling for augmented reality systems in novel vascular models. Proceedings of the 10th EAI International Conference on Simulation Tools and Techniques: 93–97
21. Cheng I, Shen R, Moreau R, et al (2014) An augmented reality framework for optimization of computer assisted navigation in endovascular surgery. 36th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, Chicago, USA: 5647–5650
22. Rudarakanchana N, Van Herzeele I, Bicknell CD, et al (2014) Endovascular repair of ruptured abdominal aortic aneurysm: technical and team training in an immersive virtual reality environment. Cardiovasc Intervent Radiol 37 :920–927
23. Reedy GB, Lavelle M, Simpson T, Anderson JE (2017) Development of the human factors skills for healthcare instrument: a valid and reliable tool for assessing interprofessional learning across healthcare practice settings. Simul Technol Enhanc Learn 3: 135–141