Resource Summary Report

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Mimics

RRID:SCR_012153
Type: Tool

Proper Citation

Mimics (RRID:SCR_012153)

Resource Information

URL: http://biomedical.materialise.com/mimics

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Description: Software for medical image processing. Use Mimics for the segmentation of 3D medical images (coming from CT, MRI, microCT, CBCT, Ultrasound, Confocal Microscopy) and the result will be highly accurate 3D models of your patient''s anatomy. You can then use these patient-specific models for a variety of engineering applications directly in Mimics or 3-matic, or export the 3D models and anatomical landmark points to 3rd party software, like statistical, CAD, or FEA packages.

Abbreviations: Mimics

Synonyms: Materialise MIMICS, Mimics - Medical Image Segmentation for Engineering on Anatomy

Resource Type: commercial organization, data processing software, image analysis software, image processing software, segmentation software, software application, software resource

Keywords: segmentation, 3d-rendering, micro-ct, ct, mri, cbct, ultrasound, confocal microscopy, anatomy

Resource Name: Mimics

Resource ID: SCR_012153

Alternate IDs: rid_000086

Record Creation Time: 20220129T080308+0000

Record Last Update: 20260905T132722+0000

Ratings and Alerts

No rating or validation information has been found for Mimics.

No alerts have been found for Mimics.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 1029 mentions in open access literature.

Listed below are recent publications. The full list is available at Kravitz .

Liu Y, et al. (2026) Advanced glycation end products promote Porphyromonas gingivalis dissemination via an ROS-dependent, inflammation-independent mechanism. Cell reports, 45(4), 117252.

Tang QH, et al. (2026) Hemodynamic factors of aortic dilatation after thoracic endovascular aortic repair for type-B aortic dissection. Frontiers in bioengineering and biotechnology, 14, 1780047.

He J, et al. (2026) Collagenesis orchestrates mechanoadaptive development and homeostasis of intervertebral discs. Cell reports, 45(3), 117076.

Aalbregt E, et al. (2026) Automated identification, hemodynamic visualisation and quantification of abdominal aortic aneurysms with 4D flow magnetic resonance imaging. Quantitative imaging in medicine and surgery, 16(1), 8.

Troyer EM, et al. (2025) Macroevolutionary role reversals in the earliest radiation of bony fishes. Current biology : CB.

Strong CRC, et al. (2025) Digital volumetric modeling reveals unique body plan experimentation in the Devonian tetrapod Ichthyostega. iScience, 28(6), 112486.

Chen B, et al. (2025) 3D printing individualized augments prosthesis and acetabular implant for the treatment of Crowe type III developmental dysplasia of the hip. Scientific reports, 15(1), 19514.

Farpour HR, et al. (2025) Evaluation of the Influence of Changes in Bone Mineral Density and Increases in Articular Cartilage Thickness on Blood Supply of the Femoral Head in Legg-Calv??-Perthes Disease. Hip & pelvis, 37(1), 38.

Yang D, et al. (2025) From virtual to reality: application of a novel 3D printing hollow model for early-stage lung cancer in the clinical teaching of thoracoscopic sublobar resection. Frontiers in oncology, 15, 1526592.

Yeo IS, et al. (2025) Histomorphometric analysis of anterior cruciate ligament bundles and anatomical insights into injury mechanisms. Scientific reports, 15(1), 6762.

Liao Q, et al. (2025) Investigation of bending angle algorithm and path planning for puncture needles in transjugular intrahepatic portosystemic shunt. Biomedical engineering online, 24(1), 66.

Liu T, et al. (2025) Morphology and biomechanical index predict the rupture location and rupture risk of abdominal aortic aneurysm. Scientific reports, 15(1), 9604.

Qin Y, et al. (2025) A metamaterial scaffold beyond modulus limits: enhanced osteogenesis and angiogenesis of critical bone defects. Nature communications, 16(1), 2180.

Li Y, et al. (2025) Comparison of accuracy in C1-C2 pedicle screw placement: O-arm, 3D guides, and C-arm fluoroscopy. Scientific reports, 15(1), 15731.

Wang H, et al. (2025) Pre- and Post-Surgical MRI Analysis of Levator Ani in Pelvic Organ Prolapse Patients: A Single-Center Study. Medical science monitor : international medical journal of experimental and clinical research, 31, e945993.

Liu ZG, et al. (2025) Analysis of factors associated with intercostal neuralgia after osteoporotic thoracic spine fracture and construction of a prediction model. BMC musculoskeletal disorders, 26(1), 110.

Bao X, et al. (2025) Study on the crack propagation morphology and initiation law of coal rock under the action of underwater electric pulse. Scientific reports, 15(1), 2013.

Otero A, et al. (2025) Hindlimb biomechanics of Lagosuchus talampayensis (Archosauria, Dinosauriformes), with comments on skeletal morphology. Journal of anatomy, 246(6), 948.

Liu C, et al. (2025) Application of a 3D Fusion Model to Evaluate the Efficacy of Clear Aligner Therapy in Malocclusion Patients: Prospective Observational Study. Journal of medical Internet research, 27, e67378.

Hwang S, et al. (2025) Clinical outcome and volumetric 3D analysis of biofluorescence imaging system guided surgery for Medication-Related Osteonecrosis of the Jaw(MRONJ). BMC oral health, 25(1), 123.