

# Runze Han

## List of Publications by Year in descending order

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Version: 2024-02-01

26  
papers

215  
citations

1162889

8  
h-index

1058333

14  
g-index

26  
all docs

26  
docs citations

26  
times ranked

191  
citing authors

| #  | ARTICLE                                                                                                                                                                                                     | IF  | CITATIONS |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 1  | Deformable MR-CT image registration using an unsupervised, dual-channel network for neurosurgical guidance. <i>Medical Image Analysis</i> , 2022, 75, 102292.                                               | 7.0 | 21        |
| 2  | Pre-Clinical Development of Robot-Assisted Ventriculoscopy for 3-D Image Reconstruction and Guidance of Deep Brain Neurosurgery. <i>IEEE Transactions on Medical Robotics and Bionics</i> , 2022, 4, 28-37. | 2.1 | 3         |
| 3  | Joint synthesis and registration network for deformable MR-CBCT image registration for neurosurgical guidance. <i>Physics in Medicine and Biology</i> , 2022, 67, 125008.                                   | 1.6 | 9         |
| 4  | Deformable registration of MRI to intraoperative cone-beam CT of the brain using a joint synthesis and registration network. , 2022, , .                                                                    |     | 1         |
| 5  | Fracture reduction planning and guidance in orthopaedic trauma surgery via multi-body image registration. <i>Medical Image Analysis</i> , 2021, 68, 101917.                                                 | 7.0 | 21        |
| 6  | Development of a fluoroscopically guided robotic assistant for instrument placement in pelvic trauma surgery. <i>Journal of Medical Imaging</i> , 2021, 8, 035001.                                          | 0.8 | 2         |
| 7  | A mobile isocentric C-arm for intraoperative cone-beam CT: Technical assessment of dose and 3D imaging performance. <i>Medical Physics</i> , 2020, 47, 958-974.                                             | 1.6 | 21        |
| 8  | Multi-body 3D-to-2D registration for image-guided reduction of pelvic dislocation in orthopaedic trauma surgery. <i>Physics in Medicine and Biology</i> , 2020, 65, 135009.                                 | 1.6 | 11        |
| 9  | Automatic analysis of global spinal alignment from simple annotation of vertebral bodies. <i>Journal of Medical Imaging</i> , 2020, 7, 1.                                                                   | 0.8 | 3         |
| 10 | Multi-body registration for fracture reduction in orthopaedic trauma surgery. , 2020, , .                                                                                                                   |     | 2         |
| 11 | SpineCloud: image analytics for predictive modeling of spine surgery outcomes. <i>Journal of Medical Imaging</i> , 2020, 7, 1.                                                                              | 0.8 | 8         |
| 12 | Automatic pedicle screw planning using atlas-based registration of anatomy and reference trajectories. <i>Physics in Medicine and Biology</i> , 2019, 64, 165020.                                           | 1.6 | 24        |
| 13 | Atlas-based automatic planning and 3D-to-2D fluoroscopic guidance in pelvic trauma surgery. <i>Physics in Medicine and Biology</i> , 2019, 64, 095022.                                                      | 1.6 | 25        |
| 14 | A Statistical Model for Rigid Image Registration Performance: The Influence of Soft-Tissue Deformation as a Confounding Noise Source. <i>IEEE Transactions on Medical Imaging</i> , 2019, 38, 2016-2027.    | 5.4 | 3         |
| 15 | Learning-based deformable image registration: effect of statistical mismatch between train and test images. <i>Journal of Medical Imaging</i> , 2019, 6, 1.                                                 | 0.8 | 3         |
| 16 | A line fiducial method for geometric calibration of cone-beam CT systems with diverse scan trajectories. <i>Physics in Medicine and Biology</i> , 2018, 63, 025030.                                         | 1.6 | 14        |
| 17 | Real-time, image-based slice-to-volume registration for ultrasound-guided spinal intervention. <i>Physics in Medicine and Biology</i> , 2018, 63, 215016.                                                   | 1.6 | 7         |
| 18 | A momentum-based diffeomorphic demons framework for deformable MR-CT image registration. <i>Physics in Medicine and Biology</i> , 2018, 63, 215006.                                                         | 1.6 | 6         |

| #  | ARTICLE                                                                                                                                                                    | IF  | CITATIONS |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | Clinical Translation of the LevelCheck Decision Support Algorithm for Target Localization in Spine Surgery. <i>Annals of Biomedical Engineering</i> , 2018, 46, 1548-1557. | 1.3 | 3         |
| 20 | Clustered iterative sub-atlas registration for improved deformable registration using statistical shape models. , 2018, , .                                                |     | 1         |
| 21 | Real-time image-based 3D-2D registration for ultrasound-guided spinal interventions. , 2018, , .                                                                           |     | 0         |
| 22 | Automatic definition of surgical trajectories and acceptance window in pelvic trauma surgery using deformable registration. , 2018, , .                                    |     | 0         |
| 23 | A statistical model for image registration performance: effect of tissue deformation. , 2018, , .                                                                          |     | 0         |
| 24 | Fundamental limits of image registration performance: effects of image noise and resolution in CT-guided interventions. <i>Proceedings of SPIE</i> , 2017, 10135, .        | 0.8 | 5         |
| 25 | Planning, guidance, and quality assurance of pelvic screw placement using deformable image registration. <i>Physics in Medicine and Biology</i> , 2017, 62, 9018-9038.     | 1.6 | 14        |
| 26 | Effects of Image Quality on the Fundamental Limits of Image Registration Accuracy. <i>IEEE Transactions on Medical Imaging</i> , 2017, 36, 1997-2009.                      | 5.4 | 8         |