

Subject:

Call for papers: WBIR2020 - 9th International Workshop on Biomedical Image Registration



Portorož, Slovenia

June 16 and 17, 2020

Website: wbir2020.org

Twitter: [@wbir2020](https://twitter.com/wbir2020)

Manuscript submission deadline: Jan 10, 2020



MICCAI Society Endorsed Event

Dear colleagues,

We are pleased to announce the 9th International Workshop on Biomedical Image Registration, WBIR2020, hosted in Portorož, Slovenia! The workshop will be held in the Congress Centre Bernardin in Portorož, on 16 and 17 June, 2020.

The workshop brings together leading researchers in the area of biomedical image registration to present and discuss recent developments in the field, including methodological innovations and advances in the performance and validation on existing and novel applications. The workshop will include both oral and poster presentations, exciting keynote lectures, all with ample opportunities for discussion. At the social events you will enjoy the warm and relaxing Adriatic seaside along with authentic Mediterranean cuisine and excellent drinks.

Come, share and enjoy!

IMPORTANT DATES

- Paper submission deadline: Jan 10, 2020
- Notification of acceptance: Feb 21, 2020
- Camera-ready deadline: March 20, 2020
- Conference dates: June 16 and 17, 2020

AIMS AND SCOPE

Submissions are invited in all areas of biomedical image registration. Topics of interest include, but are not limited to:

- *Novel registration methodology*: 2D/3D/4D, spatiotemporal/dynamic, pairwise / groupwise, slice-to-volume, projective, single/multi-modal, intra/inter-subject, model-based, patch-based, multi-channel, tracking
- *Mathematical aspects of image registration*: continuous/discrete optimization, real-time, similarity measures, diffeomorphisms, LDDMM, stationary velocity, inverse consistency, multi-scale
- *Machine learning and deep learning techniques for registration*: unsupervised / supervised / reinforcement learning, convolutional / recurrent / transformer networks, neural networks for feature extraction and matching, correspondence weighting and prediction, attention modeling, deformation learning, deep encoder-decoder networks
- *Biomedical applications of registration*: computer-assisted interventions, image-guided therapy, treatment planning/delivery, diagnosis/prognosis, atlas-based segmentation, label fusion, histopathology correlation, serial studies, pathology detection and localization, morphometry, biomechanics, image retrieval/restoration/fusion, imaging biomarkers for precision medicine, radiomics & radiogenomics, early proofs of concept
- *Validation of registration*: quantitative and qualitative methods, benchmarking, comparison studies, phantom studies, correlation to outcome, validation protocols and performance metrics, uncertainty estimation

All accepted full paper submissions will be published as a volume in the [Springer's Lecture Notes in Computer Science](#) (LNCS) series.

ORGANIZING COMMITTEE

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