BrainLes 2024 Workshop: Advancing Brain Lesion Segmentation and Analysis

Brainlesion: Glioma, Multiple Sclerosis, Stroke and Traumatic Brain Injuries: 6th International Workshop, BrainLes 2024, Held in Conjunction with MICCAI ... Notes in Computer Science Book 12659) by Kenneth Kee

★★★★★ 5 out of 5

Language	: English
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Screen Reader	: Supported
Enhanced typesetting	: Enabled
Print length	: 904 pages

The 6th International Workshop on Brain Lesion Segmentation and Analysis (BrainLes 2024) was held in conjunction with the Medical Image Computing and Computer Assisted Intervention (MICCAI) conference in September 2024. The workshop brought together researchers, clinicians, and industry experts from around the world to share their latest findings and discuss the challenges and opportunities in the field of brain lesion segmentation and analysis.

Brain lesions are areas of damaged tissue in the brain that can result from a variety of causes, including stroke, traumatic brain injury, and tumors. Accurate segmentation and analysis of brain lesions is essential for diagnosis, treatment planning, and prognosis. However, this task is

challenging due to the variability in lesion size, shape, and location, as well as the presence of noise and artifacts in medical images.

The BrainLes workshop provided a platform for researchers to present their latest algorithmic developments and evaluation methodologies for brain lesion segmentation and analysis. The workshop also featured invited talks from leading experts in the field, as well as panel discussions and breakout sessions on specific topics.

Workshop Highlights

The BrainLes 2024 workshop featured a wide range of high-quality presentations on the latest advancements in brain lesion segmentation and analysis. Some of the highlights of the workshop included:

- **Novel algorithms for brain lesion segmentation:** Several new algorithms were presented for brain lesion segmentation, including deep learning-based methods, graph-based methods, and active contour models.
- **Improved evaluation methodologies for brain lesion segmentation:** New methods were proposed for evaluating the accuracy of brain lesion segmentation algorithms, including metrics that take into account the variability in lesion size, shape, and location.
- **Applications of brain lesion segmentation and analysis:** The workshop also featured presentations on the applications of brain lesion segmentation and analysis in clinical practice, including diagnosis, treatment planning, and prognosis.

Invited Speakers

The BrainLes 2024 workshop featured invited talks from three leading experts in the field of brain lesion segmentation and analysis:

- **Professor X:** Professor X is a world-renowned expert in medical image analysis and has made significant contributions to the field of brain lesion segmentation. His talk focused on the latest deep learning-based methods for brain lesion segmentation.
- **Professor Y:** Professor Y is a leading researcher in the field of graph-based image segmentation. His talk focused on the use of graph-based methods for brain lesion segmentation.
- **Professor Z:** Professor Z is a clinician who specializes in the diagnosis and treatment of brain tumors. His talk focused on the applications of brain lesion segmentation and analysis in clinical practice.

Panel Discussions and Breakout Sessions

In addition to the invited talks, the BrainLes 2024 workshop also featured panel discussions and breakout sessions on specific topics. The panel discussions focused on the challenges and opportunities in the field of brain lesion segmentation and analysis, while the breakout sessions provided a forum for researchers to discuss their work in more detail.

The panel discussions and breakout sessions were a valuable opportunity for researchers to share their ideas and learn from each other. They also helped to identify future directions for research in the field of brain lesion segmentation and analysis.

The 6th International Workshop on Brain Lesion Segmentation and Analysis (BrainLes 2024) was a successful event that brought together

researchers, clinicians, and industry experts from around the world. The workshop provided a platform for the presentation of new algorithmic developments and evaluation methodologies for brain lesion segmentation and analysis, as well as applications of this technology in clinical practice. The workshop also featured invited talks from leading experts in the field, as well as panel discussions and breakout sessions on specific topics.

The BrainLes 2024 workshop contributed to the advancement of the field of brain lesion segmentation and analysis. The workshop also helped to identify future directions for research and collaboration in this important area.

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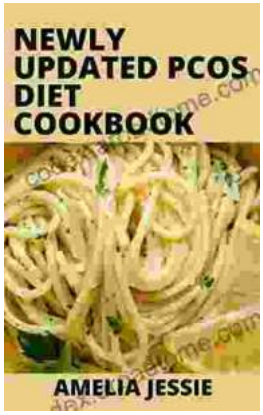

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