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Keynote Speech : Role of Open Source in Medical Imaging

Thursday, December 26, 2024 10:15 AM (45 minutes)

Abstract:

This keynote focuses on the transformative impact of open-source tools in medical imaging, beginning with their role in enhancing cybersecurity and data protection practices crucial for safeguarding sensitive medical information. Emphasizing sustainability, the presentation highlights how open-source platforms contribute to creating accessible, sustainable healthcare solutions, democratizing advanced imaging technology worldwide. The keynote further explores the integration of artificial intelligence (AI) and machine learning (ML) within open-source frameworks to enable efficient and accurate diagnostic processes. An overview of popular open-source visualization tools showcases their application across radiology, pathology, and neuroimaging. The keynote also examines open-source platforms like 3D Slicer and OHIF Viewer, which facilitate hands-on medical imaging training and bolster e-learning resources. Concluding with future trends, the keynote advocates for a continued open-source paradigm in medical imaging, promising an era of greater accessibility, innovation, and collaborative advancement in healthcare technology.

Bio:

Prof. Dr. Robertas Damaševičius is a distinguished professor with extensive expertise in computer science, artificial intelligence, and software engineering. His research interests encompass a broad range, including machine learning, deep learning, medical imaging and computer vision. He has authored numerous high-impact publications and led interdisciplinary research projects. His work focuses on innovative AI applications across diverse fields, including healthcare and environmental science. Prof. Damaševičius is known for his multidisciplinary approach, fostering collaborations that enhance software reliability, optimize AI-driven solutions, and advance data mining methodologies in scientific and industrial contexts. His contributions continue to drive advancements in technology for societal benefit.

Paper Language

Contribution Type

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