SYSTEM AND METHOD FOR MONITORING LESION PROGRESSION OVER MULTIPLE MEDICAL SCANS

View U.S. Patent Application Publication No. US-2024-0341711 in PDF format.

WARF: P230131US01

Inventors: Robert Jeraj, Victor Fernandes

Overview

Metastasis is the leading cause of cancer-related mortality. In metastasis, cells of a primary cancer break away from where they were first formed and travel through the body to create new lesions. Each metastatic lesion may respond differently to treatment and, accordingly, lesion-level assessment may be necessary for a complete understanding of disease response. Such lesion-level assessment, however, is difficult as it requires manual matching of as many as hundreds of corresponding lesions, which is a tedious, subjective, and error-prone task, and is therefore rarely performed in practice.

The Invention

UW-Madison researchers have developed a method for assessing disease progression and treatment as revealed by multiple lesions between time-separated scans of a patient through a global process which assesses overlap between all pairs in the scan sequence and links lesions in different images to maximize overlap globally. The system is implemented in software linking lesions among different medical scans taken over time to better reveal disease progression.

Additional Information

For More Information About the Inventors

- Robert Jeraj

Tech Fields

- Medical Imaging : Other diagnostic imaging

For current licensing status, please contact Jeanine Burmania at jeanine@warf.org or 608-960-9846