SYSTEM AND METHOD FOR MONITORING MULTIPLE LESIONS

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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 assessment, however, is difficult and typically requires manual matching of as many as hundreds of corresponding lesions, a tedious, subjective, and error-prone task.

The Invention

UW-Madison researchers have developed a method and apparatus for tracking disease progression. The system accounts for multiple lesions to perform a global optimization to identify corresponding lesions by overlap, for example, after outlines of the lesions have been morphologically dilated. A clustering algorithm addresses the problem of lesions separating into parts or joining together to provide a clear picture of disease progression.

Additional Information

For More Information About the Inventors

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Tech Fields

- Medical Imaging : Other diagnostic imaging

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