

## *Congratulations*

# **Anant Madabhushi, PhD**

### VA RR&D Merit Review



The Cleveland FES Center congratulates Anant Madabhushi on receiving a VA RR&D Merit Review for his project entitled, "Lung Imaging based Risk Score (LunIRIS): Decision support tool for screening CT."

Each year, more than 20 million patients in the United States undergo a chest computer tomography (CT) exam. In nearly half of these exams, a pulmonary nodule will be identified. While most of these nodules are benign, it is difficult to distinguish them from nodules that require treatment. As a result, many patients unnecessarily undergo more invasive diagnostic procedures.

The novel technology, LunIRiS, is a computerized decision-support technology for use in conjunction with routine chest CT scans to reduce the high false-positive diagnostic rate associated with lung nodules. The technology could greatly reduce the number of unnecessary invasive diagnostic procedures. With advanced computational image-analytic and machine-learning tools, LunIRiS provides a risk score for improved quantitative assessment of lung nodules and has been shown to improve the diagnostic accuracy of human readers.

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#### **About the FES Center**

The Cleveland FES Center is a consortium of the Louis Stokes Cleveland VA Medical Center, MetroHealth Medical Center, Case Western Reserve University, University Hospitals, and the Cleveland Clinic Neurological Institute. With their support, researchers, engineers and clinicians collaborate together to develop innovative solutions that improve the quality of life of individuals with neurological or other muscular skeletal impairments. Through the use of neurostimulation and neuromodulation research and applications, the Cleveland FES Center leads the translation of this technology into clinical deployment.