

# Florida Analytical Imaging Solutions, LLC



Tampa, Florida

Tatyana A. Zhukov, PhD, Manager/CEO  
Palm Harbor, FL 34684

Phone: 813 382 2953  
E-mail: Tatyana.Zhukov@gmail.com  
<http://flaimaging.com>

## Capability Statement

### Core Competencies - Florida Analytical Imaging Solutions (FAIS)

FAIS's unique image analytics derive actionable results from intractably amorphous biological images, whether gross, such as CT, X-ray, MRI or PET, or microscopic, such as IHC stained tissue or cell slides. This is made possible by FAIS automated image analysis for segregation, isolation, and analysis of sub-cellular or gross structures with 95%-99% accuracy.

For Covid-19 diagnostics and prognosis, FAIS is uniquely able to process lung image data sets to correlate physical disease attributes with identification of disease state and preferred treatment options. FAIS seeks access to Covid-19 lung image databases, through collaboration with hospitals, HMOs, insurers, or others, to enable derivation of this important information.

FAIS image analytics have been applied successfully to lung tumor detection, lung cancer diagnosis and prognosis, and mammogram tumor detection.

FAIS has significant additional capability in cancer diagnosis and in assessment of cancer treatment efficacy resulting from the combination of FAIS imaging analytics with our particular expertise in the analysis of centrosomes, sub-nuclear cell components involved in cell mitosis, aberrations in which are critically linked to cancer and cancer progression.

- **Early cancer detection, Biomarkers**
- **Software, Image processing, Image Analysis**
- **Neural network**

### Past Performance

FAIS has performed work as part of NIH projects and in collaboration with the H. Lee Moffitt Cancer Center (Tampa, FL). Covid-19 lung imaging analysis is reported to have been successfully used in other medically advanced countries. We anticipate an improved outcome, as FAIS's patented and proprietary technologies, software, and approaches to deep learning neural networking yield high-confidence results, with a discernment and at levels of accuracy alternative systems are generally unable to match.