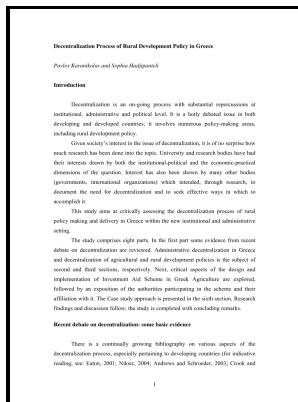


Increasing response - proceedings of a MRDF seminar.

Market Research Development Fund - Comparison of autofluorescence, diffuse reflectance, and Raman spectroscopy for breast tissue discrimination



Description: -

-Increasing response - proceedings of a MRDF seminar.

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Notes: Papers from the MRDF seminar Increasing response.

This edition was published in 1985

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Why Britain should embrace

The protein profiles were recorded from pathologically certified normal as well as malignant breast tissue samples. We report here the observation, for the first time, of the enhancement of Europium-Tetracycline complex emission in cholesterol solutions. In addition to assigning class labels, all the diagnostic algorithms also yielded posterior probabilities of the measured tissue sites belonging to each breast tissue type.

A Grand Step Sideways

This technique can be modified as well, such as adding polarization optics to provide depth-dependent information to perhaps overcome the limitations of fluorescence and diffuse reflectance as discussed previously. The goal of the present study is to evaluate and compare the relative capabilities of fluorescence, diffuse reflectance, combined fluorescence and diffuse reflectance, and Raman spectroscopy for simultaneously discriminating the different histopathologic categories of human breast tissues.

MRDF's Marine Research — Marine Resources Development Foundation

Analysis of scattered spectra aimed to distinction of benign tumors from malignant ones is done by original procedure of data processing. These should include calibration strategy, standards selection strategy, performance verification plan, performance validation plan and thorough preclinical performance validation.

Distributed multisensor processing, decision making, and control under constrained resources for remote health and environmental monitoring, Proceedings of SPIE

Tissue viability represents the balance between O₂ supply and demand.

Distributed multisensor processing, decision making, and control under constrained resources for remote health and environmental monitoring, Proceedings of SPIE

The average scattering and absorption spectra is calculated for the two levels of bruising and compared to the adjacent non-bruised regions. The formulation extends the two-class ROC analysis in a straightforward way for multiclass case and computes a generalized metric indicative of overall performance measure of a given multiclass diagnostic algorithm. One may see that both fluorescence and diffuse reflectance consistently misclassify 30% to 45% of IDC tissue sites as normal, and the situation does not improve much even with the combined approach, which still leads to a 25% misclassification rate.

Distributed multisensor processing, decision making, and control under constrained resources for remote health and environmental monitoring, Proceedings of SPIE

Use of both fluorescence and diffuse reflectance spectra in combination, however, was observed to make the algorithm perform much better than that with diffuse reflectance alone, though the sensitivity and specificity values were the same as that obtained using autofluorescence alone. All spectra were categorized according to their histological identities and grouped into IDC, DCIS, FA, or normal breast tissue.

Why Britain should embrace

Proteomics based techniques are rapidly emerging as alternative techniques to conventional histo-pathological methods for detection and diagnosis of cancers.

A Grand Step Sideways

The spectral differences were quantified by employing a probability-based diagnostic algorithm developed based on recently formulated theory of Relevance Vector Machine RVM , a Bayesian machine-learning framework of statistical pattern recognition. We report results of a study demonstrating that swept-source spectral interferometry and spectral phase analysis may be applied to determine quantitatively the concentration of glucose in aqueous solutions. She was privileged to speak alongside those they deemed just as committed to the preservation of human rights and justice.

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