DIAGNOSTIC ANALYSIS USING TEXTURAL FEATURES OF THE LACHRYMAL FLUID CRYSTAL IMAGES (TueAmPO3)

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Abstract:
The application of the direction field method and the statistical textural analysis for crystallograms classification is proposed. As global features, the features the expert uses for the crystallogram–based classification of the eye pathology were taken: unidirectedness of the crystal rays, relative area of crystal domains with clear–cut rays, ray density, crystal transparency. As textural features, the characteristics of the second–order distribution were taken. Experimental studies were conducted on the lachrymal fluid crystallograms.