

An Intelligent Tumor Detection System For Cervical Cancer Using Artificial Neural Network

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Abstract - Cancer of the cervix often starts with dysplasia - this means odd- looking cells show up in cervical tissue. These unusual cells might turn into cancer if left alone; instead of vanishing, they could grow further into the cervix or reach nearby organs. This study focuses on building a visual tool that sorts cervix types correctly and fast by analyzing MRI scans through smart imaging tech and brain-like computing systems.

Images showing cervical cancer come from a freely available online source then go through cleaning steps like filtering, separating parts, grouping similar areas, pulling out key details. Once cleaned, they're sorted into non- harmful or harmful types using various techniques - comparison happens right after to check how well each method works. The whole thing runs on MATLAB 7.8.0, which handles grabbing pictures, preparing them, plus building the interface people interact with.