

# CT-based hand-crafted radiomics for the management of pulmonary nodules

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# Propositions

1. Digital medical images are high-dimensional data. (Gillies RJ et al.)
2. Radiomics is the bridge between medical imaging and personalized medicine. (Lambin P et al.)
3. Radiologists who use AI will replace radiologists who don't. (Langlotz CP)
4. The ultimate goal of radiomics is to build quicker and more reliable clinical decision support systems to assist clinicians rather than replacing them. (this thesis)
5. The quantitative features that reflect the shape and uniformity of pulmonary nodules are predictive of nodule growth. (this thesis)
6. The biological details contained in the various components of part-solid pulmonary nodules can vary. (this thesis)
7. Preoperative CT-based radiomics combined with intraoperative pathology can help guide surgical strategy for pulmonary nodules patients. (this thesis)
8. Radiomics can benefit the management of pulmonary nodules and early lung cancer. (this thesis)
9. All things are difficult before they are easy. (Thomas Fuller)
10. Dripping water hollows out stone, not through force, but through persistence. (Ovid)