

### Computer-Aided Diagnosis

Introducing the concept of converting images to numbers (*Lodwick et al.*)

1963  
1973

### Texture Analysis Origins

Gray-level co-occurrence matrix (GLCM) definition (*Haralick et al.*)

### Early Tumor Clustering

First identification of necrosis and viable tissue subregions (*Carano et al.*)

2004

### Quantitative Response Criteria

Choi criteria incorporating CT attenuation changes (*Choi et al.*)

2007

### Morphological Response Criteria

Qualitative assessment for colorectal liver metastases (*Chun et al.*)

2009

### Radiomics Formalized

Term coined; high-throughput feature extraction defined (*Lambin et al.*)

2012

### Radiomics Prognostic Value

Radiomic features predict outcomes across cancer types (*Aerts et al.*)

2013

### Habitat Imaging Formalized

Ecological framing of tumor subregions introduced (*Gatenby et al.*)

2014

### Handcrafted Standardization & Deep Learning

PyRadiomics and IBSI standardize features; deep learning enters radiology (*van Griethuysen et al.*; *Zwanenburg et al.*; *Lakhani & Sundaram*)

2017

2024

### Foundation Models

Cancer imaging biomarker discovery with foundation models (*Pai et al.*)