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Introduction. T2* relaxation refers to the decay of transverse magnetization seen

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with gradient-echo (GRE) sequences. T2* relaxation is one of the main determinants of image contrast with GRE sequences and forms the basis for many magnetic resonance (MR) applications.. This article aims (a) to review the basics of T2* relaxation and various T2*-based MR sequences and illustrate their clinical

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Principles, Techniques, and Applications of T2*-based MR ...

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Introduction. Artificial intelligence (AI), as a

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field defined broadly by the engineering of computerized systems able to perform tasks that normally require human intelligence, has substantial potential in the medical imaging field
(.).Machine learning and deep learning algorithms have been developed to improve workflows in radiology or to assist the radiologist by automating tasks such

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Preparing Medical Imaging Data for Machine Learning

Traditionally, due to its low cost, ready availability, and proved diagnostic accuracy, ultrasonography (US) has been the primary imaging modality for the evaluation of scrotal and, to a lesser extent, penile disease. However, US is limited by its relatively small

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useful field of view,
operator dependence,
and inability to provide
much information on
tissue characterization.
Magnetic resonance ...

MR Imaging of the Penis and Scrotum | RadioGraphics

1. Introduction. With
the resurgence of deep
learning in computer
vision starting from
2012 (Krizhevsky et al.,
2012), the adoption of
deep learning methods

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in medical imaging has increased dramatically. It is estimated that there were over 400 papers published in 2016 and 2017 in major medical imaging related conference venues and journals (Litjens et al., 2017).