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400€

Projekttitle

Automation and validation of hip endoprosthesis parameter determination in anterior-posterior x-ray images



Firma

Raylytic GmbH, Magdeburg

Hochschule

OVGU Magdeburg

Ort, Datum, Unterschrift

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Kurzbeschreibung des Projektes

Total hip replacement is one of the most common orthopedic procedures in which the hip joint or parts of the hip joint are replaced by prostheses. The correct positioning and orientation of those implants is of major importance for a positive patient outcome after surgery. In addition, wear debris particles cause aseptic inflammation with osteolysis and aseptic loosening and thus represent a significant challenge for orthopedic surgeons. Therefore, the measurement of certain parameters (cup-inclination, cup-anteversion, wear) in different imaging modalities is necessary, in the current case especially in x-ray images, which require significantly less radiation than CT images.