

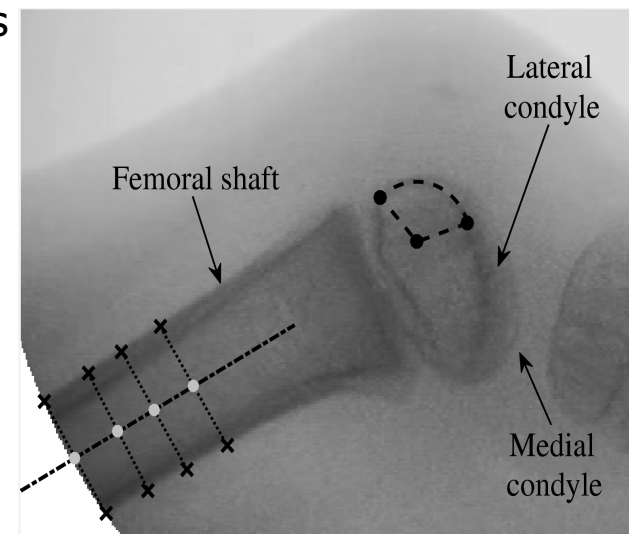
# Convolutional Neural Network based femur stabilization for X-ray image sequences

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- Key-point detection and image stabilization for X-ray image sequences of children with pathological knees
- Novel selection of specific anatomical features resulting in robustness to out-of-plane rotations and image deformations
- Key-points representing those features are detected using a combination of adaptive threshold and a CNN-based regressor
- Image transformations estimated using the ICP algorithm



An example image frame with automatically detected key-points used for the purposes of femur stabilization.