

35x speedup

in AI inference time for auto
contouring algorithms
compared to previous gen.¹

20% reduction

in energy consumption
compared to previous gen.²

Siemens Healthineers Boosts Medical Image Processing and Sustainability Efforts

Siemens Healthineers is committed to helping healthcare professionals deliver quality care and improve patient experience and outcomes by transforming care delivery and precision medicine with artificial intelligence (AI). Contouring organs at risk is an essential step during the planning phase for radiation therapy. Radiation therapy professionals manually contour 10s of organs at risk on a computer tomography data set, but this process is tedious and time consuming, and the resulting contours often lack consistency, because contours can differ from user to user. Supporting radiation therapy professionals with AI-based auto contouring technology can increase workload efficiency, improve consistency and help free up staff to focus on value adding work. Using 4th Gen Intel® Xeon Scalable processor with Intel® Advanced Matrix Extensions, and the Intel® Distribution of the OpenVINO™ Toolkit, allows Siemens Healthineers to speed up the execution of AI models, lower system cost and complexity, and reduce energy consumption.

Products and Solutions

[4th Gen Intel® Xeon® Scalable Processors](#)

[Intel® Advanced Matrix Extensions](#)

[Intel® Distribution of OpenVINO™ Toolkit](#)

Industry

Hospitals &
Healthcare

Organization Size

10,001+

Country

Germany

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