

# Marcel van Straten, PhD

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## List of publications

### Journal contributions (first author)

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- Van Straten M, Venema HW, Majoie CBLM, Freling NJ, Grimbergen CA, Den Heeten GJ. Image Quality of Multisection CT of the Brain: Thickly Collimated Sequential Scanning versus Thinly Collimated Spiral Scanning with Image Combining. **Am. J. Neuroradiol.**, Mar 2007, 28(3):421-427.
- Van Straten M, Venema HW, Streekstra GJ, Majoie CBLM, Den Heeten GJ, Grimbergen CA. Removal of bone in CT angiography of the cervical arteries by piecewise matched mask bone elimination. **Medical Physics**, October 2004, 31(10): 2924-2933.
- Van Straten M, Venema HW, Hartman J, Grimbergen CA, Den Heeten GJ. Reproducibility of spiral CT scans: an experimental study. **Medical Physics**, October 2004, 31(10): 2785-2786.
- Van Straten M, Venema HW, Streekstra GJ, Reekers JA, Den Heeten GJ, Grimbergen CA. Removal of arterial wall calcifications in CT angiography by local subtraction. **Medical Physics**, May 2003, 30(5): 761-770.

### Journal contributions (co-author)

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- Majoie CBLM, Van Straten M, Venema HW, Den Heeten GJ. Multisection CT venography of the dural sinuses and cerebral veins by using matched mask bone elimination. **Am. J. Neuroradiol.**, May 2004, 25:787-791.
- Venema HW, Van Straten M, Den Heeten GJ. Digital Radiography of the Chest: Reassessment of the High-Voltage Technique? [Letter to the Editor] **Radiology**, April 2005, 235(1): 336-338.

### Other publications

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- Van Straten M, Venema HW, Majoie CBLM, Ciancibello L, Subramanyan K. Automatic bone removal in CT angiography. **Medica Mundi**, 2005, 49(1):4-8.
- Van Straten M. Image Registration in Computed Tomography. **Thesis** University of Amsterdam, 2005. ISBN: 90-9019160-7.
- Strackee SD, Van Straten M, Kroon FHM. Mandibular reconstruction with a modeling and osteotomy jig system: A three-dimensional Computed Tomography evaluation in cadaver models. In: Strackee SD. Mandibular reconstruction revisited: on modeling and fixation techniques of the fibular free flap. **Thesis** University of Amsterdam, 2004. ISBN: 90-9018663-8.

### Conference contributions

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- Van Straten M, Staatz G, Kalender WA. Optimization of paediatric computed tomography (CT) examinations by simulation of low-dose CT scans with a dose tutor program. **ECR**, Vienna 2007.
- Deak P, Van Straten M, Kalender WA. Validation of a Monte Carlo (MC) based tool for patient-specific dose calculations in x-ray computed tomography. **ECR**, Vienna 2007.
- Deak P, Van Straten M, Kalender WA. Dose assessment for dual-source CT (DSCT) scanners. **ECR**, Vienna 2007.
- Snel JG, Olabarriaga SD, Alkemade J, Gratama van Andel H, Nederveen AJ, Majoie CB, Den Heeten GJ, Van Straten M, Belleman RG. A Distributed Workflow Management System for

Automated Medical Image Analysis and Logistics. 19th IEEE Symposium on Computer-Based Medical Systems (**CBMS**), 2006.

- Van Straten M, Deak P, Kalender WA. Patient-Specific Organ Dose Determination for Patients of Varying Size on CT Scanners with Automatic Exposure Control (AEC). **RSNA 92nd Annual Meeting**, Chicago 2006.
- Van Straten M, Deak P, Kalender WA. Automatic Exposure Control: How to Estimate Patient Organ Doses When Detailed Information on the Modulated Tube Current Is Not Available. **RSNA 92nd Annual Meeting**, Chicago 2006.
- Van Straten M, Venema HW, Streekstra GJ, Grimbergen CA, Virmani S, Subramanyan K. Soft Matched Mask Bone Elimination (MMBE): An Improved Automatic Bone Removal Technique for CT Angiography (CTA) of the Cerebral Arteries and Veins. **RSNA 91st Annual Meeting**, Chicago 2005.
- Gratama van Andel H, Venema HW, Streekstra GJ, Van Straten M, Den Heeten GJ, Grimbergen CA. Multi-scale Matched Mask Bone Elimination (multi-scale MMBE): Improved Automatic Bone Removal in Computed Tomography Angiography (CTA) Images. **RSNA 91st Annual Meeting**, Chicago 2005.
- Cinnamon J, Steinmiller M, Wottrich S, Kostick J, Van Straten M, Villain N, et al. Comparison of Post-processing Bone-Removal Techniques for the Evaluation of the Intracranial Vasculature in CT Angiography. **RSNA 91st Annual Meeting**, Chicago 2005.
- Van Straten M, Venema HW, Streekstra GJ, Majoie CBLM, Den Heeten GJ, Grimbergen CA. Removal of bone in CT angiography of the cervical arteries by piecewise matched mask bone elimination. 9th **Annual Congress for Dutch Radiologists** 2004.
- Van Straten M, Venema HW, Hartman J, Den Heeten GJ, Grimbergen CA. Reproducibility of multi-slice spiral CT scans. **RSNA 90th Annual Meeting**, Chicago 2004.
- Van Straten M, Venema HW, Subramanyan K, Pohlman S, Ciancibello L, Streekstra GJ, Majoie CBLM, Den Heeten GJ, Grimbergen CA. Automatic bone removal in CT angiography of the cervical and cerebral arteries. **Philips User Meeting**, Barcelona, October 2004.
- Van Straten M, Venema HW, Streekstra GJ, Majoie CBLM, Den Heeten GJ, Grimbergen CA. Removal of bone in CT angiography of the cranial and cervical arteries by piecewise matched mask bone elimination. **AAPM 46th Annual Meeting**, Pittsburgh 2004.
- Van Straten M, Venema HW, Hartman J, Grimbergen CA, Den Heeten GJ. Reproducibility of multislice spiral CT scans. **AAPM 46th Annual Meeting**, Pittsburgh 2004.
- Van Straten M, Venema HW, Streekstra GJ, Reekers JA, Den Heeten GJ, Grimbergen CA. Renal artery stenosis: removal of calcifications in CT angiography. **RSNA 88th Annual Meeting**, Chicago 2002.