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## **Automated segmentation of atherosclerotic arteries in MR Images**

Adame Valero, I.M.

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**Automated segmentation  
of atherosclerotic  
arteries in MR images**

**Maribel Adame**

# Colophon

## *About the cover*

The circles on the cover represent cross sections of an arterial wall. When the back and the front covers are seen together, from left to right, progression of atherosclerosis can be observed, going from concentric circular structures (healthy vessels) in the back cover, to elliptical shapes (diseased vessels) in the front cover, with shrinking of the inner contour and enlargement of the outer one. The distance between the straight lines is an abstraction of the vessel wall thickness, which increases as the disease progresses.

Automated Segmentation of Atherosclerotic Arteries in MR Images

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# **Automated segmentation of atherosclerotic arteries in MR images**

**Automatische segmentatie  
van atherosclerotische bloedvaten  
in MR beelden**

Proefschrift  
ter verkrijging van  
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door

**Isabel Maria Adame Valero**  
geboren te Sevilla (Spanje)  
in 1978

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