

# Accepted Manuscript

Geometrical deployment for braided stent

Pierre Bouillot, Olivier Brina, Rafik Ouared, Hasan Yilmaz,  
Mohamed Farhat, Gorislav Erceg, Karl-Olof Lovblad,  
Maria Isabel Vargas, Zsolt Kulcsar, Vitor Mendes Pereira

PII: S1361-8415(16)00013-X  
DOI: [10.1016/j.media.2016.01.006](https://doi.org/10.1016/j.media.2016.01.006)  
Reference: MEDIMA 1073



To appear in: *Medical Image Analysis*

Received date: 30 July 2015  
Revised date: 20 November 2015  
Accepted date: 20 January 2016

Please cite this article as: Pierre Bouillot, Olivier Brina, Rafik Ouared, Hasan Yilmaz, Mohamed Farhat, Gorislav Erceg, Karl-Olof Lovblad, Maria Isabel Vargas, Zsolt Kulcsar, Vitor Mendes Pereira, Geometrical deployment for braided stent, *Medical Image Analysis* (2016), doi: [10.1016/j.media.2016.01.006](https://doi.org/10.1016/j.media.2016.01.006)

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

**Highlights**

- We develop a deployment model based on the geometrical properties of braided stents.
- The position of the filaments, the length and local porosity of the stent are computed.
- The mathematical description demonstrates the stent shortening in curved vessels.
- Real stent measurements confirmed the assumptions and accuracy of the model.
- The assessment of the stent radius has a critical role in the virtual stent prediction.

Download English Version:

<https://daneshyari.com/en/article/6878224>

Download Persian Version:

<https://daneshyari.com/article/6878224>

[Daneshyari.com](https://daneshyari.com)