Vector velocity estimation of blood flow – A new application in medical ultrasound

Vector flow techniques in the field of ultrasound encompass different pulse emission and estimation strategies. Numerous techniques have been introduced over the years, and recently commercial implementations usable in the clinic have been made. A number of clinical papers using different vector velocity approaches have been published. This review will give an overview of the most significant in vivo results achieved with ultrasound vector flow techniques, and will outline some of the possible clinical applications for vector velocity estimation in the future.

General information
Publication status: Published
Organisations: Department of Electrical Engineering, Biomedical Engineering, Center for Fast Ultrasound Imaging, University of Copenhagen
Contributors: Hansen, K. L., Nielsen, M. B., Jensen, J. A.
Number of pages: 11
Pages: 189-199
Publication date: 2017
Peer-reviewed: Yes

Publication information
Journal: Ultrasound
Volume: 25
Issue number: 4
ISSN (Print): 1742-271X
Ratings:
Scopus rating (2017): CiteScore 0.54 SJR 0.226 SNIP 0.496
Web of Science (2017): Indexed yes
Original language: English
Keywords: Vector velocity estimation, Blood flow, Angle independent, Doppler ultrasound
DOIs: 10.1177/1742271X17713353
Source: FindIt
Source ID: 2371143415
Research output: Contribution to journal › Review – Annual report year: 2017 › Research › peer-review