

# **Heart Mechanics: Magnetic Resonance Imaging - Mathematical Modeling, Pulse Sequences And Image Analysis**

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## **Assessment of cardiac performance with magnetic -**

with an emphasis on mathematical modeling analysis performance with magnetic resonance imaging} models of cardiac mechanics and used to <http://citeseerx.ist.psu.edu/viewdoc/summary?doi=10.1.1.320.6124>

## **Functional Imaging and Modeling of the Heart - GBV -**

Mathematical Modeling of Electromechanical Function Disturbances Estimation in Periodic Cardiac Image Sequences 393 Magnetic Resonance Imaging:

<http://www.gbv.de/dms/ilmenau/toc/531268063.PDF>

## **Department of Biomedical Engineering - Case -**

rapid magnetic resonance imaging pulse sequence development; image mathematical modeling and analysis of magnetic resonance imaging, image

<http://bulletin.case.edu/bulletinarchives/2011-12/schoolofengineering/biomedicalengineering/>

## **Heart Mechanics: Magnetic Resonance Imaging -**

Heart Mechanics Magnetic Resonance Imaging Mathematical Modeling, Pulse Sequences and Image Analysis Edited by El-Sayed H. Ibrahim. CRC Press 2016 752 pages

<http://www.sponpress.com/books/details/9781482263688/>

### **Department of Biomedical Engineering | Biomedical -**

including magnetic resonance imaging rapid magnetic resonance imaging pulse sequence development; image and cardiac CT imaging; cardiac mechanics

<http://bme-apps.case.edu/Welcome/SpecialPrograms/ResearchPrograms/ResearchBiomedicalImaging>

### **Magnetic Resonance Imaging: Physical Principles -**

Magnetic Resonance Imaging: Physical Principles and Sequence Design  
eBook: Robert W. Brown, Y.-C. Norman Cheng, E. Mark Haacke, Michael R. Thompson,

<http://www.amazon.co.uk/Magnetic-Resonance-Imaging-Physical-Principles-ebook/dp/B00K499M2Y>

### **Tagged magnetic resonance imaging of the heart: a -**

Magnetic resonance imaging (MRI) of the heart Image analysis; Magnetic resonance imaging; An integrated approach that combines fast imaging pulse sequences,

<http://www.sciencedirect.com/science/article/pii/S1361841505000162>

### **Magnetic resonance myocardial fiber-orientation -**

Although this generalized formalism is particularly useful for analyzing pulse sequences by magnetic resonance imaging image slice closest to base of heart.

<http://ajpheart.physiology.org/content/274/5/H1627>

### **CiteSeerX Citation Query Imaging heart motion -**

phase magnetic resonance imaging (harp-mri) pulse an emphasis on mathematical modeling analysis Image reconstruction of tagged cardiac MR

<http://citeseerx.ist.psu.edu/showciting?cid=4020940>

### **A New Methodology for Multiscale Myocardial -**

A New Methodology for Multiscale Myocardial Deformation and Strain Analysis Based Imaging and Modeling of the Heart pulse sequence, Magnetic Resonance

<http://www.hindawi.com/journals/ijbi/2010/341242/>

### **Three-dimensional finite element models from -**

finite element models from magnetic resonance images as a structural framework for continuum analysis of the heart Pulse Beats For Magnetic Resonance Imaging

<http://proceedings.spiedigitallibrary.org/proceeding.aspx?articleid=994074>

### **Journal of Cardiovascular MR | Full text | -**

Mathematical modeling of cardiovascular magnetic resonance perfusion data allows perfusion imaging data using dedicated cardiac image analysis

<http://www.jcmr-online.com/content/17/1/17>

### **Hyperpolarized Magnetic Resonance -**

and mathematical modeling established although quantitative image analysis may be needed The role of cardiovascular magnetic resonance imaging in heart

<http://circ.ahajournals.org/content/124/14/1580.full>

### **Advanced Magnetic Resonance Imaging | CAI2R -**

G16.4409 Advanced Magnetic Resonance Imaging. Parallel transmission and imaging; Medical image analysis; Non Xiaohong J. Zhou. Handbook of MRI Pulse Sequences.

<http://cai2r.net/biomedical-imaging/advanced-magnetic-resonance-imaging>

### **BMSC-GA 4409 Advanced Magnetic Resonance Imaging -**

Principles of Magnetic Resonance Imaging, Parallel transmission and imaging Medical image analysis Handbook of MRI Pulse Sequences. 2 of 2

[http://www.med.nyu.edu/sackler/sites/default/files/sackler/BMSC\\_GA\\_4409SPR15.pdf](http://www.med.nyu.edu/sackler/sites/default/files/sackler/BMSC_GA_4409SPR15.pdf)

### **Accelerated whole- heart 3D CSPAMM for myocardial -**

heart 3D CSPAMM for myocardial motion quantification. Cardiac Magnetic Resonance Imaging Image Analysis, Journal of Mathematical

<http://onlinelibrary.wiley.com/doi/10.1002/mrm.21363/citedby>

### **Journal of Magnetic Resonance Imaging - Wiley -**

agents used in magnetic resonance imaging tool to quantify cardiac rotational mechanics in analysis, all 4D flow pulse sequences showed

[http://onlinelibrary.wiley.com/rss/journal/10.1002/\(ISSN\)1522-2586](http://onlinelibrary.wiley.com/rss/journal/10.1002/(ISSN)1522-2586)

### **JOVE | Peer Reviewed Scientific Video Journal - -**

MRI, Diffusion Magnetic Resonance Imaging, Cardiac mathematical modeling (systems analysis), image analysis to quantify the

<http://www.jove.com/visualize/abstract/24657095/automatic-moment-segmentation-peak-detection-analysis-heart-sound>

### **Study of the Murine Cardiac Mechanical Function -**

in conventional and new cardiac Magnetic Resonance imaging and pulse sequence acquisitions, image on modeling cardiac

<http://www.intechopen.com/books/practical-applications-in-biomedical-engineering/study-of-the-murine-cardiac-mechanical-function-using-magnetic-resonance-imaging-the-current-status->

### **Cardiovascular Magnetic Resonance Imaging for the -**

By using an image analysis magnetization after the inversion pulse. MR sequences with an inversion prepulse magnetic resonance imaging for valvular heart disease:

<http://link.springer.com/content/pdf/10.1007%2Fs13239-011-0066-2.pdf>

### **Measuring mechanical function in the failing heart -**

Magnetic resonance imaging The left image shows the heart just after Precise measurements of cardiac mechanics in heart failure have shown

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1963464/>

### **Multi-Detector CT Imaging: Abdomen, Pelvis, and -**

Heart Mechanics: Magnetic Resonance Imaging Mathematical Modeling, Pulse Sequences and Image Analysis

<https://www.crcpress.com/Multi-Detector-CT-Imaging-Abdomen-Pelvis-and-CAD-Applications/Saba-Suri/9781439893975>

### **Modelling passive diastolic mechanics with -**

Imaging approaches in cardiac mechanics. Cardiac magnetic resonance imaging echo pulse sequence with for Cardiac Image Analysis, Functional Imaging and

<http://www.sciencedirect.com/science/article/pii/S1361841509000619>

### **Histological validation of myocardial -**

Histological validation of myocardial microstructure obtained from diffusion tensor magnetic resonance imaging

<http://ajpheart.physiology.org/content/275/6/H2308>

### **Myocardial tagging by Cardiovascular Magnetic -**

Jul 27, 2011 evolution of techniques--pulse sequences, analysis pulse sequences and related image magnetic resonance imaging of the heart:

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3166900/>

### **Ying Cheng | LinkedIn -**

. 5+ years of research background in magnetic resonance imaging (MRI), image MRI pulse sequence development, MR imaging Modeling & Data Analysis

<https://www.linkedin.com/pub/ying-cheng/1b/527/bb4>

### **IMAGE RECONSTRUCTION IN DYNAMIC CONTRAST ENHANCED -**

IMAGE RECONSTRUCTION IN DYNAMIC CONTRAST ENHANCED MAGNETIC RESONANCE 5.3.2 Image Analysis gradient echo pulse sequence with the following imaging

[http://content.lib.utah.edu/utils/getfile/collection/etd3/id/690/file\\_name/675.pdf](http://content.lib.utah.edu/utils/getfile/collection/etd3/id/690/file_name/675.pdf)

**Patent US8224640 - Method and system for -**

echocardiography, or magnetic resonance (MR) image data of from the sequence of volumetric cardiac imaging and system for computational modeling of

<http://www.google.com/patents/US8224640>

**Measuring mechanical function in the failing heart -**

Magnetic resonance imaging The left image shows the heart just after Precise measurements of cardiac mechanics in heart failure have shown

<http://europepmc.org/articles/PMC1963464>

**Modeling data acquisition and the effects of -**

Modeling data acquisition and the effects of patient motion in magnetic resonance imaging and has not included any effects specific to the imaging pulse sequence.

[http://proceedings.spiedigitallibrary.org/data/Conferences/SPIEP/46169/198\\_1.pdf](http://proceedings.spiedigitallibrary.org/data/Conferences/SPIEP/46169/198_1.pdf)

**Magnetic resonance imaging - Wikipedia, the free -**

Magnetic resonance imaging (MRI), Lauterbur published the first nuclear magnetic resonance image is an inversion-recovery pulse sequence used to nullify the

[http://en.wikipedia.org/wiki/Magnetic\\_resonance\\_imaging](http://en.wikipedia.org/wiki/Magnetic_resonance_imaging)