

# Enrico G Caiani

## List of Publications by Year in descending order

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Version: 2024-02-01

166  
papers

11,201  
citations

145106

33  
h-index

36203

101  
g-index

174  
all docs

174  
docs citations

174  
times ranked

15723  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Improved clinical investigation and evaluation of high-risk medical devices: the rationale and objectives of CORE-MD (Coordinating Research and Evidence for Medical Devices). <i>European Heart Journal Quality of Care &amp; Clinical Outcomes</i> , 2022, 8, 249-258.  | 1.8 | 13        |
| 2  | COVID-19 and mental disorders in healthcare Personnel: A novel framework to develop Personas from an online survey. <i>Journal of Biomedical Informatics</i> , 2022, 126, 103993.   | 2.5 | 6         |
| 3  | Decision Support Systems in HF based on Deep Learning Technologies. <i>Current Heart Failure Reports</i> , 2022, 19, 38-51.   | 1.3 | 2         |
| 4  | Characterizing fluvial geomorphological change using Google Earth Engine (GEE) to support sustainable flood management in the rural municipality of El Faid. <i>Arabian Journal of Geosciences</i> , 2022, 15, 1.   | 0.6 | 3         |
| 5  | Automated classification of hand gestures using a wristband and machine learning for possible application in pill intake monitoring. <i>Computer Methods and Programs in Biomedicine</i> , 2022, 219, 106753.   | 2.6 | 4         |
| 6  | Editorial: Digital Solutions in Cardiology. <i>Frontiers in Cardiovascular Medicine</i> , 2022, 9, 873991.  | 1.1 | 3         |
| 7  | Digital Health Services through Patient Empowerment: Classification, Current State and Preliminary Impact Assessment by Health Pod Systems. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 359.  | 1.3 | 3         |
| 8  | Assessment of the relationship between regional wall motion abnormality score revealed by parametric imaging and the extent of LGE with CMR. <i>Clinical Imaging</i> , 2022, , .  | 0.8 | 0         |
| 9  | Monitoring Cardiac Activity by Detecting Subtle Head Movements Using MEMS Technology. , 2022, , .   |     | 0         |
| 10 | ESC Working Group on e-Cardiology Position Paper: accuracy and reliability of electrocardiogram monitoring in the detection of atrial fibrillation in cryptogenic stroke patients. <i>European Heart Journal Digital Health</i> , 2022, 3, 341-358.   | 0.7 | 13        |
| 11 | Cardiac adaptations to 60 day head-down tilt bed rest deconditioning. Findings from the AGBRESA study. <i>ESC Heart Failure</i> , 2021, 8, 729-744.   | 1.4 | 25        |
| 12 | ESC working group on e-cardiology position paper: use of commercially available wearable technology for heart rate and activity tracking in primary and secondary cardiovascular prevention in collaboration with the European Heart Rhythm Association, European Association of Preventive Cardiology, Association of Cardiovascular Nursing and Allied Professionals, Patient Forum, and the Digital Health Committee. <i>European Heart Journal Digital Health</i> , 2021, 2, 49-59. | 0.7 | 44        |
| 13 | Automated classification of cancer morphology from Italian pathology reports using Natural Language Processing techniques: A rule-based approach. <i>Journal of Biomedical Informatics</i> , 2021, 116, 103712.   | 2.5 | 21        |
| 14 | Predicting Long-Term Mortality in TAVI Patients Using Machine Learning Techniques. <i>Journal of Cardiovascular Development and Disease</i> , 2021, 8, 44.  | 0.8 | 12        |
| 15 | Automated left and right ventricular chamber segmentation in cardiac magnetic resonance images using dense fully convolutional neural network. <i>Computer Methods and Programs in Biomedicine</i> , 2021, 204, 106059.   | 2.6 | 31        |
| 16 | Benchmarking Transfer Entropy Methods for the Study of Linear and Nonlinear Cardio-Respiratory Interactions. <i>Entropy</i> , 2021, 23, 939.  | 1.1 | 8         |
| 17 | Machine Learning Prediction Models for Mitral Valve Repairability and Mitral Regurgitation Recurrence in Patients Undergoing Surgical Mitral Valve Repair. <i>Bioengineering</i> , 2021, 8, 117.  | 1.6 | 5         |
| 18 | Geospatial Correlation Analysis between Air Pollution Indicators and Estimated Speed of COVID-19 Diffusion in the Lombardy Region (Italy). <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 12154.  | 1.2 | 4         |

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|----|---|-----|-----------|
| 19 | Assessing Cardiac Electro-Mechanical Deconditioning During Bed Rest Using Smartphone's Inertial Sensors. , 2021, , .  |     | 0         |
| 20 | Cardiovascular adaptation to simulated microgravity and countermeasure efficacy assessed by ballistocardiography and seismocardiography. Scientific Reports, 2020, 10, 17694.   | 1.6 | 12        |
| 21 | Analysis of changes in cardiac circadian rhythms of RR and QT induced by a 60-day head-down bed rest with and without nutritional countermeasure. European Journal of Applied Physiology, 2020, 120, 1699-1710.   | 1.2 | 9         |
| 22 | Predictive Value of Pre-Operative 2D and 3D Transthoracic Echocardiography in Patients Undergoing Mitral Valve Repair: Long Term Follow Up of Mitral Valve Regurgitation Recurrence and Heart Chamber Remodeling. Journal of Cardiovascular Development and Disease, 2020, 7, 46. | 0.8 | 5         |
| 23 | Development of a Novel Framework to Propose New Strategies for Automated External Defibrillators Deployment Targeting Residential Out-Of-Hospital Cardiac Arrests: Application to the City of Milan. ISPRS International Journal of Geo-Information, 2020, 9, 491.                | 1.4 | 3         |
| 24 | Mobile health applications for managing atrial fibrillation for healthcare professionals and patients: a systematic review. Europace, 2020, 22, 1567-1578.  | 0.7 | 23        |
| 25 | Feasibility of Heart Rate and Respiratory Rate Estimation by Inertial Sensors Embedded in a Virtual Reality Headset. Sensors, 2020, 20, 7168.   | 2.1 | 14        |
| 26 | Mapping Spatiotemporal Diffusion of COVID-19 in Lombardy (Italy) on the Base of Emergency Medical Services Activities. ISPRS International Journal of Geo-Information, 2020, 9, 639.  | 1.4 | 14        |
| 27 | Implementing the new European Regulations on medical devicesâ€”clinical responsibilities for evidence-based practice: a report from the Regulatory Affairs Committee of the European Society of Cardiology. European Heart Journal, 2020, 41, 2589-2596.                          | 1.0 | 37        |
| 28 | 3D right ventricular endocardium segmentation in cardiac magnetic resonance images by using a new inter-modality statistical shape modelling method. Biomedical Signal Processing and Control, 2020, 58, 101866.  | 3.5 | 0         |
| 29 | Evaluation of Cardiac Circadian Rhythm Deconditioning Induced by 5-to-60 Days of Head-Down Bed Rest. Frontiers in Physiology, 2020, 11, 612188.   | 1.3 | 5         |
| 30 | Psycho-cognitive Factors Orienting eHealth Development and Evaluation. , 2020, , 109-121.   |     | 3         |
| 31 | Quantification of Ventricular Repolarization Variation for Sudden Cardiac Death Risk Stratification in Atrial Fibrillation. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 1049-1057.   | 3.9 | 4         |
| 32 | Assessment of ventricular repolarization instability in terms of T-wave alternans induced by head-down bed-rest immobilization. Physiological Measurement, 2019, 40, 104001.  | 1.2 | 3         |
| 33 | Assessment of Ultra-Short Heart Variability Indices Derived by Smartphone Accelerometers for Stress Detection. Sensors, 2019, 19, 3729.   | 2.1 | 22        |
| 34 | Effects of exercise countermeasure on myocardial contractility measured by 4D speckle tracking during a 21-day head-down bed rest. European Journal of Applied Physiology, 2019, 119, 2477-2486.  | 1.2 | 13        |
| 35 | ESC e-Cardiology Working Group Position Paper: Overcoming challenges in digital health implementation in cardiovascular medicine. European Journal of Preventive Cardiology, 2019, 26, 1166-1177.   | 0.8 | 194       |
| 36 | Long-Term Microgravity Exposure Increases ECG Repolarization Instability Manifested by Low-Frequency Oscillations of T-Wave Vector. Frontiers in Physiology, 2019, 10, 1510.  | 1.3 | 8         |

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|----|---|-----|-----------|
| 37 | Development and testing of a deep learning-based strategy for scar segmentation on CMR-LGE images. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2019, 32, 187-195.   | 1.1 | 69        |
| 38 | A statistical shape model of the left ventricle from real-time 3D echocardiography and its application to myocardial segmentation of cardiac magnetic resonance images. <i>Computers in Biology and Medicine</i> , 2018, 96, 241-251. | 3.9 | 12        |
| 39 | Post-Ventricular Premature Contraction Phase Correction Improves the Predictive Value of Average T-Wave Alternans in Ambulatory ECG Recordings. <i>IEEE Transactions on Biomedical Engineering</i> , 2018, 65, 635-644.               | 2.5 | 7         |
| 40 | Sensitivity analysis of ventricular activation and electrocardiogram in tailored models of heart-failure patients. <i>Medical and Biological Engineering and Computing</i> , 2018, 56, 491-504.                                       | 1.6 | 19        |
| 41 | Automated Scar Segmentation From Cardiac Magnetic Resonance-Late Gadolinium Enhancement Images Using a Deep-Learning Approach. , 2018, , .  |     | 3         |
| 42 | Automated Characterization of Mobile Health Apps' Features by Extracting Information From the Web: An Exploratory Study. <i>American Journal of Audiology</i> , 2018, 27, 482-492.  | 0.5 | 10        |
| 43 | Parametric Imaging for the Assessment of Cardiac Motion: A Review. <i>Cardiovascular Engineering and Technology</i> , 2018, 9, 377-393.   | 0.7 | 4         |
| 44 | The need for transparency of clinical evidence for medical devices in Europe. <i>Lancet, The</i> , 2018, 392, 521-530.  | 6.3 | 67        |
| 45 | 2018 ESC/ESH Guidelines for the management of arterial hypertension. <i>European Heart Journal</i> , 2018, 39, 3021-3104.   | 1.0 | 6,826     |
| 46 | Left ventricular MRI wall motion assessment by monogenic signal amplitude image computation. <i>Magnetic Resonance Imaging</i> , 2018, 54, 109-118.   | 1.0 | 7         |
| 47 | Interpretation of cardiac wall motion from cine-MRI combined with parametric imaging based on the Hilbert transform. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2017, 30, 347-357.                       | 1.1 | 11        |
| 48 | Anatomical Regurgitant Orifice Detection and Quantification from 3-D Echocardiographic Images. <i>Ultrasound in Medicine and Biology</i> , 2017, 43, 1048-1057.   | 0.7 | 4         |
| 49 | Automated identification of health apps' medical specialties and promoters from the store webpages. , 2017, , .   |     | 6         |
| 50 | Smartphone accelerometers for the detection of heart rate. <i>Expert Review of Medical Devices</i> , 2017, 14, 935-948.   | 1.4 | 23        |
| 51 | Evaluation of respiratory- and postural-induced changes on the ballistocardiogram signal by time warping averaging. <i>Physiological Measurement</i> , 2017, 38, 1426-1440.   | 1.2 | 15        |
| 52 | Ultra-short-term heart rate variability analysis on accelerometric signals from mobile phone. , 2017, , .   |     | 20        |
| 53 | e-Health solutions for better care: Characterization of health apps to extract meaningful information and support users' choices. , 2017, , .   |     | 7         |
| 54 | Human Pathophysiological Adaptations to the Space Environment. <i>Frontiers in Physiology</i> , 2017, 8, 547.   | 1.3 | 213       |

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|----|---|-----|-----------|
| 55 | Statistical Shape Models of the Heart: Applications to Cardiac Imaging. , 2017, , 445-480.  |     | 9         |
| 56 | Weightlessness and Cardiac Rhythm Disorders: Current Knowledge from Space Flight and Bed-Rest Studies. Frontiers in Astronomy and Space Sciences, 2016, 3, .  | 1.1 | 10        |
| 57 | Discussion of "Computational Electrocardiography: Revisiting Holter ECG Monitoring". Methods of Information in Medicine, 2016, 55, 312-321.   | 0.7 | 2         |
| 58 | Comparison of Image Processing Techniques for Nonviable Tissue Quantification in Late Gadolinium Enhancement Cardiac Magnetic Resonance Images. Journal of Thoracic Imaging, 2016, 31, 168-176.   | 0.8 | 21        |
| 59 | Segmentation of the left ventricular endocardium from magnetic resonance images by using different statistical shape models. Journal of Electrocardiology, 2016, 49, 383-391.   | 0.4 | 9         |
| 60 | Beat-to-beat heart rate detection by smartphone's accelerometers: Validation with ECG. , 2016, 2016, 525-528.   |     | 24        |
| 61 | Phase contrast MRI: Development of a user-friendly platform for fast-automated segmentation and fluid-dynamic post-processing. , 2015, , .  |     | 0         |
| 62 | Feasibility study for beat-to-beat heart rate detection by smartphone's accelerometers. , 2015, , .   |     | 6         |
| 63 | Evaluation of T-wave alternans activity under stress conditions after 5% and 21% of sedentary head-down bed rest. Physiological Measurement, 2015, 36, 2041-2055.   | 1.2 | 6         |
| 64 | Evaluation of different statistical shape models for segmentation of the left ventricular endocardium from magnetic resonance images. , 2015, , .   |     | 0         |
| 65 | Quantification of myocardial viability in late Gadolinium enhancement Cardiac MRI. , 2015, , .  |     | 0         |
| 66 | Studying heart rate variability from ballistocardiography acquired by force platform: Comparison with conventional ECG. , 2015, , .   |     | 15        |
| 67 | Three-dimensional segmentation and quantification of the anatomic regurgitant orifice in mitral regurgitation using 3D ultrasound images. , 2015, , .   |     | 0         |
| 68 | Circadian modulation on T-wave alternans activity in chronic heart failure patients. , 2015, , .  |     | 0         |
| 69 | Reconstruction of the Descending Thoracic Aorta by Multiview Compounding of 3-D Transesophageal Echocardiographic Aortic Data Sets for Improved Examination and Quantification of Atheroma Burden. Ultrasound in Medicine and Biology, 2015, 41, 1263-1276. | 0.7 | 7         |
| 70 | An in-silico analysis of the effect of heart position and orientation on the ECG morphology and vectorcardiogram parameters in patients with heart failure and intraventricular conduction defects. Journal of Electrocardiology, 2015, 48, 617-625.        | 0.4 | 33        |
| 71 | Semi-automated Segmentation and Quantification of Mitral Annulus and Leaflets from Transesophageal 3-D Echocardiographic Images. Ultrasound in Medicine and Biology, 2015, 41, 251-267.   | 0.7 | 10        |
| 72 | T-wave alternans and autonomic nervous system activity during orthostatic stress after 5 days of head-down bed-rest. , 2014, , .  |     | 0         |

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|----|--|-----|-----------|
| 73 | Three-dimensional left ventricular segmentation from magnetic resonance imaging for patient-specific modelling purposes. <i>Europace</i> , 2014, 16, iv96-iv101.   | 0.7 | 7         |
| 74 | Effects of 5 days of head-down bed rest, with and without short-arm centrifugation as countermeasure, on cardiac function in males (BR-AG1 study). <i>Journal of Applied Physiology</i> , 2014, 117, 624-632.  | 1.2 | 23        |
| 75 | Patient-specific modelling of cardiac electrophysiology in heart-failure patients. <i>Europace</i> , 2014, 16, iv56-iv61.  | 0.7 | 51        |
| 76 | Three dimensional Ballistocardiogram and Seismocardiogram: What do they have in common?. , 2014, 2014, 6085-8.   |     | 12        |
| 77 | Changes in ventricular repolarization and cardiac function induced by head-down bed rest. , 2014, , .  |     | 0         |
| 78 | Acquisition and analysis of cardiovascular signals on smartphones: potential, pitfalls and perspectives. <i>European Journal of Preventive Cardiology</i> , 2014, 21, 4-13.  | 0.8 | 74        |
| 79 | Evaluation of ensemble averaging methods in 3D ballistocardiography. , 2014, 2014, 5176-9.   |     | 6         |
| 80 | Semiautomated Detection and Quantification of Aortic Plaques from Three-Dimensional Transesophageal Echocardiography. <i>Journal of the American Society of Echocardiography</i> , 2014, 27, 758-766.  | 1.2 | 15        |
| 81 | Nearly automated motion artifacts correction between multi breath-hold short-axis and long-axis cine CMR images. <i>Computers in Biology and Medicine</i> , 2014, 46, 42-50.   | 3.9 | 13        |
| 82 | Automated Registration of 3D TEE Datasets of the Descending Aorta for Improved Examination and Quantification of Atheromas Burden. <i>Lecture Notes in Computer Science</i> , 2014, , 83-92.   | 1.0 | 1         |
| 83 | Advances in echocardiography: insights into the mitral valve and implications for surgical and percutaneous repair. <i>Interventional Cardiology</i> , 2013, 5, 683-693.   | 0.0 | 0         |
| 84 | Impaired T-wave amplitude adaptation to heart-rate induced by cardiac deconditioning after 5-days of head-down bed-rest. <i>Acta Astronautica</i> , 2013, 91, 166-172.   | 1.7 | 7         |
| 85 | Toward patient-specific simulations of cardiac valves: State-of-the-art and future directions. <i>Journal of Biomechanics</i> , 2013, 46, 217-228.   | 0.9 | 119       |
| 86 | Three-dimensional dynamic assessment of tricuspid and mitral annuli using cardiovascular magnetic resonance. <i>European Heart Journal Cardiovascular Imaging</i> , 2013, 14, 986-995.   | 0.5 | 77        |
| 87 | Heart rate and ventricular repolarization variabilities interactions modification by microgravity simulation during head-down bed rest test. , 2013, , .   |     | 0         |
| 88 | Microgravity effects on ventricular response to heart rate changes. , 2012, 2012, 3424-7.  |     | 6         |
| 89 | Evaluation of Right Ventricular Systolic Function after Mitral Valve Repair: A Two-Dimensional Doppler, Speckle-Tracking, and Three-Dimensional Echocardiographic Study. <i>Journal of the American Society of Echocardiography</i> , 2012, 25, 701-708. | 1.2 | 78        |
| 90 | Effect of Mitral Valve Repair on Mitral-Aortic Coupling: A Real-Time Three-Dimensional Transesophageal Echocardiography Study. <i>Journal of the American Society of Echocardiography</i> , 2012, 25, 524-531.   | 1.2 | 41        |

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|-----|--|-----|-----------|
| 91  | Mid-term evaluation of the effects of dynamic neutralization system on lumbar intervertebral discs using quantitative molecular MR imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2012, 35, 1145-1151.  | 1.9 | 12        |
| 92  | Three-dimensional analysis of interventricular septal curvature from cardiac magnetic resonance images for the evaluation of patients with pulmonary hypertension. <i>International Journal of Cardiovascular Imaging</i> , 2012, 28, 1073-1085.                     | 0.7 | 26        |
| 93  | Quantitative Analysis of Mitral Valve Apparatus in Mitral Valve Prolapse Before and After Annuloplasty: A Three-Dimensional Intraoperative Transesophageal Study. <i>Journal of the American Society of Echocardiography</i> , 2011, 24, 405-413.                    | 1.2 | 72        |
| 94  | Feasibility of Intraoperative Three-Dimensional Transesophageal Echocardiography in the Evaluation of Right Ventricular Volumes and Function in Patients Undergoing Cardiac Surgery. <i>Journal of the American Society of Echocardiography</i> , 2011, 24, 868-877. | 1.2 | 48        |
| 95  | Left atrial reverse remodeling and functional improvement after mitral valve repair in degenerative mitral regurgitation: A real-time 3-dimensional echocardiography study. <i>American Heart Journal</i> , 2011, 161, 314-321.                                      | 1.2 | 40        |
| 96  | Robotic treadmill training improves cardiovascular function in spinal cord injury patients. <i>International Journal of Cardiology</i> , 2011, 149, 323-329.   | 0.8 | 38        |
| 97  | Biomedical Signal and Image Processing. <i>IEEE Pulse</i> , 2011, 2, 41-54.  | 0.1 | 8         |
| 98  | Mitral Valve Patient-Specific Finite Element Modeling from Cardiac MRI: Application to an Annuloplasty Procedure. <i>Cardiovascular Engineering and Technology</i> , 2011, 2, 66-76.   | 0.7 | 93        |
| 99  | Feasibility of quantitative analysis of regional left ventricular function in the post-infarct mouse by magnetic resonance imaging with retrospective gating. <i>Computers in Biology and Medicine</i> , 2011, 41, 829-837.  | 3.9 | 7         |
| 100 | Three-dimensional analysis of regional left ventricular endocardial curvature from cardiac magnetic resonance images. <i>Magnetic Resonance Imaging</i> , 2011, 29, 516-524.   | 1.0 | 14        |
| 101 | Left ventricular modelling: a quantitative functional assessment tool based on cardiac magnetic resonance imaging. <i>Interface Focus</i> , 2011, 1, 384-395.  | 1.5 | 16        |
| 102 | Assessment of Kidney Volume in Polycystic Kidney Disease Using Magnetic Resonance Imaging without Contrast Medium. <i>American Journal of Nephrology</i> , 2011, 33, 176-184.  | 1.4 | 33        |
| 103 | Quantification of mitral annulus dynamic morphology in patients with mitral valve prolapse undergoing repair and annuloplasty during a 6-month follow-up. <i>European Journal of Echocardiography</i> , 2011, 12, 375-383.   | 2.3 | 31        |
| 104 | Trends in biomedical engineering: focus on Patient Specific Modeling and Life Support Systems. <i>Journal of Applied Biomaterials and Biomechanics</i> , 2011, 9, 109-117.   | 0.4 | 1         |
| 105 | Serial Changes in Left Ventricular Shape Following Early Mitral Valve Repair. <i>American Journal of Cardiology</i> , 2010, 106, 836-842.  | 0.7 | 36        |
| 106 | Reference Values for Right Ventricular Volumes and Ejection Fraction With Real-Time Three-Dimensional Echocardiography: Evaluation in a Large Series of Normal Subjects. <i>Journal of the American Society of Echocardiography</i> , 2010, 23, 109-115.             | 1.2 | 160       |
| 107 | Effects of robot-driven gait orthosis treadmill training on the autonomic response in rehabilitation-responsive stroke and cervical spondylotic myelopathy patients. <i>Gait and Posture</i> , 2010, 32, 199-204.  | 0.6 | 9         |
| 108 | Mitral Valve Models Reconstructor: a Python based GUI software in a HPC environment for patient-specific FEM structural analysis. , 2010, , 215-219.   |     | 2         |

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|-----|---|-----|-----------|
| 109 | Feasibility of regional and global left ventricular shape analysis from real-time 3d echocardiography. , 2009, 2009, 3641-4.  |     | 1         |
| 110 | Empirical mode decomposition to assess baroreflex gain from spontaneous variability during exercise in humans. , 2009, 2009, 2236-9.  |     | 3         |
| 111 | Semi-automated analysis of dynamic changes in myocardial contrast from real-time three-dimensional echocardiographic images as a basis for volumetric quantification of myocardial perfusion. European Journal of Echocardiography, 2009, 10, 485-490.          | 2.3 | 8         |
| 112 | Is right ventricular systolic function reduced after cardiac surgery? A two- and three-dimensional echocardiographic study. European Journal of Echocardiography, 2009, 10, 630-634.  | 2.3 | 197       |
| 113 | A Study of Functional Anatomy of Aortic-Mitral Valve Coupling Using 3D Matrix Transesophageal Echocardiography. Circulation: Cardiovascular Imaging, 2009, 2, 24-31.  | 1.3 | 114       |
| 114 | The role of echocardiography in the assessment of cardiac function in weightlessnessâ€”Our experience during parabolic flights. Respiratory Physiology and Neurobiology, 2009, 169, S6-S9.  | 0.7 | 9         |
| 115 | Division scheme optimization for the molecular evaluation of the intervertebral disc by gadolinium-enhanced MRI. Journal of Magnetic Resonance Imaging, 2009, 29, 1443-1449.  | 1.9 | 4         |
| 116 | Molecular MR imaging for the evaluation of the effect of dynamic stabilization on lumbar intervertebral discs. European Spine Journal, 2009, 18, 40-48.   | 1.0 | 45        |
| 117 | Feasibility of Left Ventricular Shape Analysis from Transthoracic Real-Time 3-D Echocardiographic Images. Ultrasound in Medicine and Biology, 2009, 35, 1953-1962.  | 0.7 | 20        |
| 118 | Evaluation of the autonomic response in healthy subjects during treadmill training with assistance of a robot-driven gait orthosis. Gait and Posture, 2009, 29, 504-508.  | 0.6 | 14        |
| 119 | Quantitative assessment of intervertebral disc glycosaminoglycan distribution by gadolinium-enhanced MRI in orthopedic patients. Magnetic Resonance in Medicine, 2008, 59, 85-95.   | 1.9 | 35        |
| 120 | Quantification of Mitral Apparatus Dynamics in Functional and Ischemic Mitral Regurgitation Using Real-time 3-Dimensional Echocardiography. Journal of the American Society of Echocardiography, 2008, 21, 347-354.   | 1.2 | 108       |
| 121 | Semi-automated segmentation and registration of triggered three-dimensional echocardiographic images as a basis for volumetric analysis of myocardial perfusion. , 2008, , .  |     | 0         |
| 122 | Semi-automatic detection and tracking of mitral and aortic annuli from real-time 3D transesophageal echocardiographic images. , 2008, , .   |     | 2         |
| 123 | From real-time 3D echocardiography to mitral valve finite element analysis: A novel modeling approach. , 2008, , .  |     | 2         |
| 124 | Mitral valve finite-element modelling from ultrasound data: a pilot study for a new approach to understand mitral function and clinical scenarios. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2008, 366, 3411-3434. | 1.6 | 102       |
| 125 | Autonomic response evaluation during gradual body weight support: Comparison between spectral and symbolic analysis. , 2008, , .  |     | 0         |
| 126 | Analysis of regional left ventricular function in the post-infarct mouse by magnetic resonance imaging with retrospective gating. , 2008, , .   |     | 0         |



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|-----|--|-----|-----------|
| 127 | Age-dependency of left ventricular shape measured from real-time 3D echocardiographic images. , 2008, , .  |     | 0         |
| 128 | Cardiac Response to Robotic Assisted Locomotion in Normal Subjects: A Preliminary Study. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 5039-42.   | 0.5 | 2         |
| 129 | Development of a method for left ventricular shape evaluation based on surfaces obtained by real-time 3D echocardiographic images. , 2007, , .   |     | 1         |
| 130 | Evaluation of alterations on mitral annulus velocities, strain, and strain rates due to abrupt changes in preload elicited by parabolic flight. Journal of Applied Physiology, 2007, 103, 80-87.   | 1.2 | 27        |
| 131 | Improved reproducibility of right ventricular volumes and function estimation from cardiac magnetic resonance images using level-set models. Magnetic Resonance in Medicine, 2007, 57, 600-605.  | 1.9 | 9         |
| 132 | Nearly automated analysis of coronary Doppler flow velocity from transthoracic ultrasound images: validation with manual tracings. Medical and Biological Engineering and Computing, 2007, 45, 483-493.  | 1.6 | 8         |
| 133 | Quantification of Regional Left Ventricular Wall Motion from Real-time 3-Dimensional Echocardiography in Patients with Poor Acoustic Windows: Effects of Contrast Enhancement Tested Against Cardiac Magnetic Resonance. Journal of the American Society of Echocardiography, 2006, 19, 886-893. | 1.2 | 55        |
| 134 | Objective evaluation of changes in left ventricular and atrial volumes during parabolic flight using real-time three-dimensional echocardiography. Journal of Applied Physiology, 2006, 101, 460-468.  | 1.2 | 22        |
| 135 | Tracking of Left Ventricular Long Axis From Real-Time Three-Dimensional Echocardiography Using Optical Flow Techniques. IEEE Transactions on Information Technology in Biomedicine, 2006, 10, 174-181.   | 3.6 | 48        |
| 136 | Automated Interpretation of Regional Left Ventricular Wall Motion from Cardiac Magnetic Resonance Images. Journal of Cardiovascular Magnetic Resonance, 2006, 8, 427-433.  | 1.6 | 22        |
| 137 | Semi-Automated Analysis of Coronary Flow Doppler Images: Validation with Manual Tracings. , 2006, 2006, 719-22.  |     | 5         |
| 138 | Improved quantification of left ventricular mass based on endocardial and epicardial surface detection with real time three dimensional echocardiography. Heart, 2006, 92, 213-219.  | 1.2 | 73        |
| 139 | Improved Quantification of Left Ventricular Volumes and Mass Based on Endocardial and Epicardial Surface Detection from Cardiac MR Images Using Level Set Models. Journal of Cardiovascular Magnetic Resonance, 2005, 7, 595-602.  | 1.6 | 19        |
| 140 | Improved quantification of right ventricular volumes from cardiac magnetic resonance data. , 2005, , .   |     | 2         |
| 141 | Improved Semiautomated Quantification of Left Ventricular Volumes and Ejection Fraction Using 3-Dimensional Echocardiography with a Full Matrix-array Transducer: Comparison with Magnetic Resonance Imaging. Journal of the American Society of Echocardiography, 2005, 18, 779-788.            | 1.2 | 108       |
| 142 | Dual Triggering Improves the Accuracy of Left Ventricular Volume Measurements by Contrast-enhanced Real-time 3-Dimensional Echocardiography. Journal of the American Society of Echocardiography, 2005, 18, 1292-1298.   | 1.2 | 33        |
| 143 | Nearly automated left ventricular long axis tracking on real time three-dimensional echocardiographic data. , 2005, , .  |     | 1         |
| 144 | Volumetric Quantification of Global and Regional Left Ventricular Function From Real-Time Three-Dimensional Echocardiographic Images. Circulation, 2005, 112, 1161-1170.   | 1.6 | 220       |

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|-----|---|-----|-----------|
| 145 | Real-time three-dimensional echocardiographic evaluation of global and regional left ventricular function. , 2005, , .  |     | 0         |
| 146 | Fast Measurement of Left Ventricular Mass With Real-Time Three-Dimensional Echocardiography. Circulation, 2004, 110, 1814-1818.   | 1.6 | 282       |
| 147 | The Role of Still-Frame Parametric Imaging in Magnetic Resonance Assessment of Left Ventricular Wall Motion by Non-cardiologists. Journal of Cardiovascular Magnetic Resonance, 2004, 6, 619-625.                                 | 1.6 | 18        |
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