Editorial

Engineering and ethical constraints

Ruben Coronel, Jos A. Spaan, Herbert F. Voigt

Original Article

Layer-specific assessment of left ventricular function by utilizing wavelet de-noising: a validation study

Noa Bachner-Hinenzon, Offir Ertracht, Michael Lysiansky, Ofer Binah, Dan Adam

Original Article

Acoustic thoracic image of crackle sounds using linear and nonlinear processing techniques


Original Article

Characterization of QT and RR interval series during acute myocardial ischemia by means of recurrence quantification analysis

Yi Peng, Zhongwei Sun

Original Article

Estimation of mean arterial pressure from the oscillometric cuff pressure: comparison of different techniques
Original Articles

Multivariate short-term heart rate variability: a pre-diagnostic tool for screening heart disease

Andreas Heitmann, Thomas Huebner, Rico Schroeder, Siegfried Perz, Andreas Voss

51-65

Original Article

Multi-objective optimal chemotherapy control model for cancer treatment

S. Algoul, M. S. Alam, M. A. Hossain, M. A. Majumder

67-74

Original Article

Discrimination power of long-term heart rate variability measures for chronic heart failure detection

Paolo Melillo, Roberta Fusco, Mario Sansone, Marcello Bracale, Leandro Pecchia

75-83

Original Article

An endotracheal intubation confirmation system based on carina image detection: a proof of concept

Dror Lederman

85-96

Original Article

Can we see epithelium tissue structure below the surface using an optical probe?

Fernand S. Cohen, Ezgi Taslidere, Sreekant Murthy

97-105

Original Article
Effects of skin wrinkles, age and wetness on mechanical loads in the stratum corneum as related to skin lesions

Ran Sopher, Amit Gefen

107-119

Original Article

Transmembrane potential generated by a magnetically induced transverse electric field in a cylindrical axonal model

Hui Ye, Marija Cotic, Michael G. Fehlings, Peter L. Carlen

121-132

Original Article

A mechatronic valve in the management of hydrocephalus: methods and performance

Lina Momani, Waleed Al-Nuaimy, Mohammed Al-Jumailly, Conor Mallucci