Loosening detection of the femoral component of hip prostheses with extracorporeal shockwaves: A pilot study
Original Research Article
Pages 157-164
Johannes S. Rieger, Sebastian Jaeger, Jan Philippe Kretzer, Rüdiger Rupp, Rudi G. Bitsch

Sensitivity analysis of human lower extremity joint moments due to changes in joint kinematics
Original Research Article
Pages 165-174
Marzieh M. Ardestani, Mehran Moazen, Zhongmin Jin

Traumatic brain injury: Increasing ICP attenuates respiratory modulations of cerebral blood flow velocity
Original Research Article
Pages 175-179
Christina Haubrich, Rolf R. Diehl, Magdalena Kasprowicz, Jennifer Diedler, Enrico Sorrentino, Piotr Smielewski, Marek Czosnyka

Activity classification in persons with stroke based on frequency features
Original Research Article
Pages 180-186
Annemarie Laudanski, Brenda Brouwer, Qingguo Li

Bone geometry on the contact stress in the shoulder for evaluation of pressure ulcers: Finite element modeling and experimental validation
Original Research Article
Pages 187-194
Ying Luo, Yancheng Wang, Bruce L. Tai, Roland K. Chen, Albert J. Shih

Evaluation of acceleration and deceleration cardiac processes using phase-rectified signal averaging in healthy and idiopathic dilated cardiomyopathy subjects
Original Research Article
Pages 195-202
Rosana Bas,Montserrat Vallverdú, Jose F. Valencia, Andreas Voss, Antonio Bayés de Luna, Pere Caminal
An advanced compliance monitor for patients undergoing brace treatment for idiopathic scoliosis
Original Research Article
Pages 203-209
Eric Chalmers, Edmond Lou, Doug Hill, H. Vicky Zhao

Data dependent random forest applied to screening for laryngeal disorders through analysis of sustained phonation: Acoustic versus contact microphone
Original Research Article
Pages 210-218
A. Verikas, A. Gelzinis, E. Vaiciukynas, M. Bacauskiene, J. Minelga, M. Hälander, V. Uloza, E. Padervinskis

Technical Notes

A robust real-time gait event detection using wireless gyroscope and its application on normal and altered gaits
Pages 219-225
Darwin Gouwanda, Alpha Agape Gopalai

Development and validation of an accelerometer-based method for quantifying gait events
Pages 226-232
Mohamed Boutaayamou, Cédric Schwartz, Julien Stamatakis, Vincent Denoël, Didier Maquet, Bénédicte Forthomme, Jean-Louis Croisier, Benoît Macq, Jacques G. Verly, Gaëtan Garraux, Olivier Brüls

Light protection of chemotherapy drugs for infusion
Pages 233-238
Douglas McG. Clarkson, Roger Harvey, Dave Sheepy

Validation of 3D surface reconstruction of vertebrae and spinal column using 3D ultrasound data – A pilot study
Pages 239-244
Duc V. Nguyen, Quang N. Vo, Lawrence H. Le, Edmond H.M. Lou

Waterjet cutting of periprosthetic interface tissue in loosened hip prostheses: An in vitro feasibility study
Pages 245-250

Principal component analysis of atrial fibrillation: Inclusion of posterior ECG leads does not improve correlation with left atrial activity
Pages 251-255
Daniel Raine, Philip Langley, Ewen Shepherd, Stephen Lord, Stephen Murray, Alan Murray, John P. Bourke