

2013 Pan American Health Care Exchanges

(PAHCE 2013)

**Medellin, Colombia
29 April – 4 May 2013**



**IEEE Catalog Number: CFP1318G-POD
ISBN: 978-1-4673-6254-2**

PAHCE 2013

PAPERS INDEX

102EB

Foot-Based Interfaces for Navigational Assistance of the Visually Impaired [ÁF](#)

103EA

A spatial agent based model for the simulation of house infestation by *R. prolixus* the principal vector of Chagas Disease in Colombia [ÁÁ](#)

104EA

Simulation of Vision Impairment with Virtual Imaging [ÁÁ](#)

105EA

Human respiratory tract emulator for the pulmonary health study by effect of inhalable particle matter [ÁF€](#)

106SA

Design and Development of Customized Temporomandibular Joint Prosthesis System: Case Presentation // Diseño y Desarrollo de Sistema de Prótesis para Reemplazo de Articulación Temporomandibular Personalizadas: Presentación de Caso [ÁF](#)

107SA

Interdisciplinary group creation and implementation of protocol for the treatment of cancer patients with craniomaxillofacial defects // Conformación de grupo interdisciplinario e implementación de protocolo para el tratamiento de pacientes oncológicos con defectos craneomaxilofaciales [ÁFG](#)

111EA

The Role of Calcium -Activated Braking Pathways in Chemosensitive Neurons [ÁFH](#)

112SA

Red Inalámbrica para Electrocardiografía // Wireless Network for lectrocardiography [ÁFI](#)

113EA

Visual Spectrum Coding of Heart Sounds Attributes [ÁFí](#)

115SA

Public Health Benefits by Reduction of PM10 in Mexicali, Baja California, Mexico // Beneficios en Salud Pública por Efecto de la Reducción del PM10 en Mexicali, Baja California, Mexico ~~Á~~Í

118EA

The effect of atmospheric CO₂ on mammal's ventilatory rate ~~Á~~Í

119SB

Optimized Verification of Respiratory Sounds Characteristics Utilizing Quantile Vectors // Optimizando Verificación de Sonidos del Pulmón con Vectores Cuantílicos ~~Á~~Í

120SB

Module to present and identify motor imagery tasks in electroencephalography // Módulo para presentar e identificar tareas de imaginación de movimiento en registros de electroencefalografía ~~Á~~GH

122SB

Analysis of the levels of risk found in biomedical equipment in two healthcare institutions of high complexity // Análisis de los niveles de riesgo encontrados en equipos biomédicos en dos Instituciones Prestadoras de Servicios de Salud de Alta Complejidad ~~Á~~G

123SB

Design and implementation of a biomedical equipment for the detection objective Tinnitus in patients with this diseases // Diseño e implementación de un equipo instrumento para la detección objetiva del Tinnitus en pacientes con esta afección. ~~Á~~I

125SA

Characterization of perfluorocarbon emulsions for use as oxygen carriers agents // Caracterización de emulsiones de perfluorocarbono para aplicación como agentes transportadores de oxígeno ~~Á~~€

126EA

Formulation, preparation and characterization of a bone adhesive ~~Á~~F

127SA

Roughness incidence over the coefficient of friction between stump and socket surface // Influencia de la rugosidad sobre el coeficiente de fricción entre el muñón y la superficie del socket ~~Á~~G

128EA

Prosthesis use incidence over the volumetric change in the hip joint cartilage of transfemoral amputee patients ~~Á~~H

129EB

Ocular motility analysis in patients with anophthalmia using digital image processing techniques // Análisis de motilidad ocular en pacientes con anoftalmía por medio de procesamiento digital de imágenes ~~Á~~I

131SA

Systematic tool developments in ophthalmology: unique lateral anophthalmia case // Desarrollo de herramientas sistemáticas en oftalmología: caso anoftalmía unilateral ^{AA}J

132SB

Piezoelectric ceramics PLZT with Pt implants as unconventional filter, applied in isolation ECG.// Cerámicas piezoeléctricas PLZT con implantes de Pt como filtro noconvencional, aplicado en aislamiento de ECG ^{AA}€

133SB

Comparison of the Contact Conditions in the Structural Analysis of a Polycentric Knee Prosthesis // Comparación de las Condiciones de Contacto en el Análisis Estructural de una Prótesis Policéntrica de Rodilla ^{AA}Í

134SB

Sensibility analysis of the material properties applied to an Intervertebral Disc Model // Análisis de Sensibilidad de las Propiedades del Material Aplicadas a un Modelo de Disco Intervertebral ^{AA}F

135EB

Chloroquine Effect on Human Atrial Action Potential under Normal Conditions and during Paroxysmal and Chronic Atrial Fibrillation.A Simulation Study ^{AA}Î

137EB

Analysis of the frontal plane alignment in AK prosthesis ^{AA}F

138EA

Biomaterials based on small intestinal submucosa (SIS) for esophagus regeneration ^{AA}Î

139EB

Design of a route registration system for ENT surgery training ^{AA}Ï

141SB

Development of a Methodology for Studying the Bending Angle of Head and Neck // Desarrollo de Metodología para el Estudio del Ángulo de Flexión de Cabeza y Cuello ^{AA}F

142EA

Diagnostic Methodology based on LEED System for Energy and Environmental Evaluation of Healthcare Facilities ^{AA}Ï

143EB

High Resolution Implantable Wireless MEMS Intraocular Pressure Sensor ^{AA}Ï

144SB

Modeling and Simulation of Ventricular Repolarization or T-wave of ECG of Subjects with Type 1 Diabetes During Adrenaline Infusions // Modelado y Simulación de la Repolarización Ventricular u Onda T del ECG de Individuos con Diabetes Tipo 1 Durante Infusión de Adrenalina ~~Á~~ÁF

149SB

Ambiente virtual para el entrenamiento de cirugías laparoscópicas utilizando robots // Virtual environment for training laparoscopic surgeries using robots ~~Á~~ÁI

153SB

Minimally Invasive Robotic Surgery, a Perspective from the Technological Surveillance // Cirugía Mínimamente Invasiva Asistida por Robot, su Perspectiva Desde la Vigilancia Tecnológica ~~Á~~ÁH

154SB

Detection and Correction of Ectopic Beats in ECG Tracing for Measuring Heart Rate Variability // Detección y Corrección de Latidos Ectópicos en un Trazo Electrocardiográfico para la Medición de la Variabilidad de la Frecuencia Cardíaca ~~Á~~ÁEJ

159EA

Biomaterials in Epithelial Tissue Engineering: A Review ~~Á~~ÁFÍ

160EA

Properties of Biocompatible Materials for use in Maxillary Bone Regeneration: A Review ~~Á~~ÁFÎ

161SB

Development of a tool for managing and analyzing technology and maintenance indicators Hospital // Desarrollo de una herramienta de gestión y análisis de indicadores de tecnología y mantenimiento Hospitalario ~~Á~~ÁFÏ

162EB

A Finite Element Simulation of High Intensity Focused Ultrasound with Polyacrylamide as Coupling Material for Acoustic Hemostasis ~~Á~~ÁFG

163EA

Algorithm for the automatic detection of JT interval and its variability at rest and exercise using Wavelet Transform ~~Á~~ÁFG

165EB

A Novel Method for Determination and Representaion the Range of Motion for the Shoulder Joint Through its Coodinate Axis ~~Á~~ÁFGJ

167EA

An Accelerometer-based Embedded System-on-Chip for Measuring Human-Body Joint Angles ~~Á~~ÁFH

169SB

Management of technology on health in the Hospital Universitario San Vicente Fundacion // Gestión de Tecnología en Salud en el Hospital Universitario San Vicente Fundación ~~ÁFI~~ H

173SA

Techno- surveillance on The Hospital Universitario de San Vicente Fundación in Medellín, Colombia // Tecnovigilancia en el Hospital Universitario de San Vicente Fundación en Medellín, Colombia ~~ÁFI~~ G

177EA

Multiphysics modeling of graphene-based biohybrid photoelectrochemical cells: an avenue to highly efficient and sustainable ultra-thin batteries ~~ÁFI~~ I

178EB

Training system for minimally invasive skills in the specialty of otolaryngology ~~ÁFI~~ Í

179EB

Design of a Platform to Induce Movement in the Human Body for Equilibrium Assessments ~~ÁFI~~ €

180EB

Low Frequency Mechanical Waves Stimulation System for Equilibrium Studies in Humans ~~ÁFI~~ I

181EB

3D Cartesian System for Characterization of Electromagnetic and Ultrasonic Applicators: Validation and Performance Testing ~~ÁFI~~ €

182SA

Robotic prototype for children with low functioning autism // Prototipo robótico para el tratamiento de niños autistas de bajo nivel de funcionamiento ~~ÁFI~~ I

188SA

Design Specifications for an Upper Limb Robotic Exoskeleton to be used in Neurorehabilitation // Especificaciones de Diseño de un Exoesqueleto Robótico de Miembro Superior para ser usado en la Neurorehabilitación ~~ÁFI~~ Í

189EB

Concept design for a novel confined-bacterial-based biosensor for water quality control ~~ÁFI~~ Î

194EA

Coronary Artery Segmentation in X-Ray Angiographic image by means of a shape based level set method ~~ÁFI~~ J

197EB

Evaluation of the Hilbert-Huang Transform for Myoelectric Pattern Classification: Towards a Method to Detect Movement Intention ~~ÁFI~~ €

199EB

Bionic Hip Prosthesis Based On Polycentric Mechanisms ~~ÁF~~ Î

200SA

Correntropy Based Algorithm for Mortality Prediction in an Intensive Care Unit (ICU)//Algoritmo Basado en Correntropy para la Predicción de Mortalidad en una Unidad de Cuidado Intensivo (UCI) ~~ÁF~~ F

201SB

Prototype of Glenohumeral joint for use as prosthesis // Prototipo de articulación glenohumeral para ser usado como prótesis ~~ÁF~~ G

202SB

Electronic Glove for Rehabilitation Exercises Controlling a Mobile Robot // Guante Electrónico para Realizar Ejercicios de Rehabilitación Controlando un Robot Móvil ~~ÁF~~ Î

203EB

Biomechanical Motion Capture Methods Focused On Tele-physiotherapy // Métodos de Captura de Movimiento Biomecánico Enfocados en Telefisioterapia ~~ÁF~~ J€

204SB

Serious Game for Rehabilitation of Meniscus Injury using a Prototype of Orthosis // Juego Serio para Rehabilitación de Lesión de Menisco usando un Prototipo de Órtesis ~~ÁF~~ JÎ

205SA

Stroke volume and cardiac output estimation using pulse wave analysis on pulse oximetry and ECG data // Estimación de volumen sistólico y gasto cardíaco mediante pulsioximetría y electrocardiografía usando análisis de contorno de pulso ~~ÁG~~ EG

207SB

Recording System for the Insertion of Surgical Instrumental Applied to an Inanimate Model of Minimally Invasive Surgery // Sistema de registros para la inserción de instrumental quirúrgico aplicado en modelo inanimado de cirugía de mínima invasión ~~ÁG~~ EH

210EA

Comparison of Texture Parameter in Images of Ultrasonic Phantoms ~~ÁG~~ EJ

212SA

Therapy device for hand joint movements //Dispositivo de terapia para movimientos articulares en la mano ~~ÁG~~ F€

213SA

Didactic game to exercise the memory by means of identification of Positions "LightBox" // Juego Didáctico para Ejercitar la Memoria por Medio de la Identificación de Posiciones "LightBox" ~~ÁG~~ FF

215EB

Evaluating the properties of silicone hoses for aesthetic surgery subjected to cycles of reuse ^ÁGFH

216SA

Acquisition and processing multispectral imaging system to cardiovascular tissue // Sistema de adquisición y procesamiento de imágenes multiespectrales para tejido cardiovascular ^ÁGFJ

217EB

Production, Characterization and Cytotoxic Evaluation of Chitosan Extracted from Different Fonts ^ÁCGG

218SB

Comparative Analysis of Materials during Design Process of Prosthetic Foot by Using Plastic Injection Molding Simulation FE Tool // Uso de Programa basado en Elementos Finitos de Moldeo por Inyección de Plástico para el Análisis Comparativo de Materiales durante el Diseño de Prótesis de Pie ^ÁCGI

219EB

Study of flow fields and shear stresses distributions through a Björk-Shiley prosthetic valve ^ÁGHI

222EB

Development of a computed tomography phantom to evaluate radiation dose and image quality ^ÁGHI

223EA

PLLA scaffold fabrication using salt leaching/gas foaming method ^ÁGHI

225SB

Analysis of movements during the process of the march to ascend stairs by means of sensor Kinect // Análisis de movimientos durante el proceso de la marcha para ascender escaleras mediante sensor Kinect ^ÁGHI

233EB

ECG Delineation and Ischemic ST-Segment Detection Based in Wavelet Transform and Support Vector Machines ^ÁGHI

237EB

Phenomenological Model of the Clavulanic Acid production, inhibitor of the enzymes β -lactamases using a method of multiple regression analysis nonlinear. ^ÁGHI

242EB

Acquisition and analysis of angles between the hip and knee during the sit-up process through the kinect sensor ^ÁGHI

243EA

Nitrogen, Potassium and Aluminum Doped Carbon Nanotubes for Atheroma-Lipoproteins Interaction on Atherosclerosis Treatment ^ÁGHI

244SB

2-D Segmentation of Left Ventricle in Magnetic Resonance Images based in an Optical Flow Algorithm ~~ÁG~~ €

245EB

Master-slave system using Kinect and an industrial robot for teleoperations ~~ÁG~~ î

246EB

Localization of Complex Fractionated Atrial Electrograms by Approximate Entropy in a 3D Model of Human Atria. ~~ÁG~~ G

248EB

Implementation of an Android based teleoperation application for Controlling a KUKA-KR6 robot. ~~ÁG~~ ï

249EA

Evaluation of in silico tools for RNA secondary structures determination, using the Hepatitis C Virus IRES sequence as a model ~~ÁG~~ J

251EB

Slow wave comparative analysis during non-REM sleep stages for normal subjects and epileptic patients. ~~ÁG~~ JI

252EB

Manufacturing and Characterization of Hydroxyapatite Foams Produced by Gel-Casting Technique ~~ÁG~~ Jí

253PB

Accuracy of measurement of simulated pressure ulcer area if using the cell phone camera // Acurácia da aferição de área de úlcera por pressão simulada utilizando-se câmera de celular ~~ÁG~~ F

256EA

Sonification of EEG signals based on musical structures ~~ÁG~~ í

258SB

Design, simulation and characterization of microfluidic system for human immunodeficiency virus detection // Diseño, simulación y caracterización de sistema de microfluídica para detección de virus de inmunodeficiencia humana ~~ÁG~~ í

262PA

Occlusion child derived from natural latex for amblyopia treatment ~~ÁG~~ FG

264EA

Reinforced Polymeric Biosensor with Carbon Nanotubes to Cardiovascular Signals Record ~~ÁG~~ FH

267PB

Modeling the Architecture of an Intelligent Tutoring System Applied to Breast Cancer // Modelagem da Arquitetura de um Sistema Tutor Inteligente Aplicado ao Câncer de Mama ~~ÁG~~ FI

271SB

Modeling and characterization of signals recorded in basal ganglia of Parkinson's disease patients // Caracterización y modelado de señales registradas en ganglios basales de pacientes con enfermedad de Parkinson ~~Á~~ ~~Í~~ ~~€~~

274PA

Information Architecture and Services of the Electronic Health Record (EHR) Definition of Brazil - GT Information Architecture // Definição da Arquitetura de Informação e de Serviços do Registro Eletrônico de Saúde (RES) do Brasil – GT Arquitetura de Informação ~~Á~~ ~~Í~~ ~~€~~

278SB

Development of a Software Tool for Rehabilitation of the Upper Limb following Stroke // Desarrollo de una Herramienta tipo Software para la Rehabilitación de Pacientes con Secuelas de Enfermedad Cerebro Vascular en Miembro Superior ~~Á~~ ~~Í~~ ~~€~~

279SB

Performance assessment of medical technology in the Intensive Care Unit based on quality indicators // Evaluación del rendimiento de la tecnología médica de la Unidad de Cuidados Intensivos a través de indicadores de calidad ~~Á~~ ~~Í~~ ~~€~~

280EB

An Alternative Light Based Signal Apparatus for Generating Biological Patterns: Oximetry ~~Á~~ ~~Í~~ ~~€~~

281EB

A wireless body sensor network platform to measure vital signs in clinical monitoring ~~Á~~ ~~Í~~ ~~€~~

282EA

Evaluation of Heart Rate Variability on Transfemoral Amputees ~~Á~~ ~~Í~~ ~~€~~

283PA

System for Automatic Classification of Feet Alterations Using Latex Insoles with Pressure Sensors and Accelerometers // Sistema de Classificação Automática de Alterações Podais Usando Palmilhas de Látex com Sensores de Pressão e Acelerômetros ~~Á~~ ~~Í~~ ~~€~~

285SB

Comparative statistical analysis between two methods for the measurement of visceral fat in humans // Análisis estadístico comparativo entre dos métodos de medición de grasa visceral en humanos. "") \$

286PA

Study of Hospital Pharmacy Automation Process in a Hospital of Federal District, Brazil // Estudo do Processo de Automação em Farmácia Hospitalar em um Hospital do Distrito Federal, Brasil ~~Á~~ ~~Í~~ ~~€~~

293EB

A mobile application for ambulatory electrocardiographic monitoring in clinical and domestic environments ~~Á~~ ~~Í~~ ~~€~~

294SB

Photoplethysmographic fingertip with miokinetic noise attenuation using an accelerometer and adaptive filtering techniques // Dedal fotopletismográfico con atenuación de ruido miocinético mediante el uso de un acelerómetro y técnicas de filtrado adaptativo ~~Á~~ J

295PB

Evaluation of hip transfemoral amputees during isometric contraction in isokinetic dynamometer// Avaliação do quadril de amputados transfemoral durante contração isométrica em dinamômetro isocinético. ~~Á~~ I

296SA

Microstructure and mechanical properties of fish scales from MegalopsAtlanticus // Características microestructurales y mecánicas de las escamas de Megalops Atlanticus ~~Á~~ J

297EB

Study of heart rate variability of university trained at rest and exercise ~~Á~~ €

298EA

Finite element analysis of meniscal root attachments ~~Á~~ Í

299EB

Design and Implementation of a Wireless Tensiometer with Smartphone Interface ~~Á~~ Î

302SA

Biomedical technology assessment in health care centers: systemic approach // Evaluación de tecnología biomédica en instituciones de salud: enfoque sistémico ~~Á~~ J

304EA

Static Transcranial Magnetic Stimulation: no longer static ~~Á~~ €

305EB

Telehealth Mobile System ~~Á~~ F

308PB

Compression of S-EMG signals by Transforms and Spectral Profile for Bit Allocation // Compressão de Sinais de S-EMG por Transformadas e Perfil Espectral para Alocação de Bits ~~Á~~ Î



309PB

Change in Slope of Conduction Velocity Linear Regression as an Indicator of Muscle Fatigue // Variação da Inclinação das Retas de Regressão Linear da Velocidade de Condução como Indicador de Fadiga Muscular ~~Á~~ UG



310EB

Key aspects to implement a medical devices surveillance plan in health care institutions and brief overview of this process enhancements through risk management ~~Á~~ J

311SB

Functional Connectivity Changes Caused by Multiple Sclerosis // Cambios en la Conectividad Funcional Ocasionados por Esclerosis Múltiple 311SB  



312SB

Intersubject repeatability of independent components obtained by ICA with EEG records // Repetibilidad intersujeto de componentes independientes obtenidos mediante ICA en registros de señales EEG  



314SB

Visualization Techniques for Neurosurgical Training in Open Source Software // Técnicas de Visualización para el Entrenamiento Neuroquirúrgico en Software Libre  



320EB

Applicability of the Second Derivative Photoplethysmogram for Non-invasive Blood Pressure Estimation during Exercise  



321EA

Titanium Surface Modification by Directed Irradiation Synthesis (DIS): Nanostructuring for Regenerative Medicine // Modificación Superficial del Titanio por Síntesis de Irradiación Dirigida (DIS): Nano-estructuración para Medicina Regenerativa  



327SA

Design of a rehabilitation system in Phantom Limb Syndrome patients // Diseño de un sistema de rehabilitación para pacientes con síndrome de Miembro Fantasma (SMF)  



328SB

Implementation of Industrial Technology to improve the manufacturing process Contoured Seats // Implementación de la Tecnología Industrial para el mejoramiento del proceso de fabricación de Asientos Conformados  


329SB

Decoding of visual stimuli from extracellular responses of a retinal ganglion cells population // Decodificación de estímulos visuales a partir de respuestas extracelulares medidas a una población de células ganglionares retinales  



331EA

Development and Characterization of a New Scaffold Bio-composite of Chitosan Coated Bioglass® for Bone Tissue Engineering  

333EA

Resting state functional near infrared spectroscopy   

335SB

Key Issues of the healthcare technology management in life cycle: Results of a brainstorming // Aspectos claves de la tecnología biomédica a través del ciclo de vida: Resultados de una lluvia de ideas  

336EB

Classification of Premature Ventricular Contraction based on Discrete Wavelet Transform for Real Time Applications ÁÍ Ì

339SA

Isolation of Collagen Type II from bovine tracheal cartilage // Aislamiento de Colágeno Tipo II de cartílago traqueal bovino ÁÍ G

341SB

Design of a piezoelectric immunosensor for tuberculosis biomarker detection // Diseño de un inmunosensor piezoeléctrico para la detección de biomarcadores de tuberculosis ÁÍ H

342SA

Toward An Upper Limb Motor Neuroprosthesis for Neurorehabilitation // Hacia una Neuroprótesis Motoras de Miembro Superior Enfocada en Neurorehabilitación ÁÍ €

343EA

System for Skills Training and Competency Assessment in Neurosurgery ÁÍ F

344EA

New Biomaterial for Treatment of Penetrating Brain Injury (PBI) Aneurysms: Nanostructured NiTi by Directed Irradiation Synthesis (DIS) // Nuevo Biomaterial para el Tratamiento de Aneurismas por Lesión Penetrante del Cerebro (PBI): NiTi Nano-estructurado Mediante Síntesis por Irradiación Dirigida (DIS) ÁÍ G

345EB

Development of a method for measuring thermal comfort in medical clothing through the hot plate apparatus ÁÍ H

346EA

Development of a Plantar Pressure Measuring System ÁÍ J

347SB

Cuantificación de la Función Cardíaca en Imágenes de Tomografía Multi-corte // Cardiac Function Quantification from Multislice Computerized Tomography Images ÁÍ €

348EB

Approaching the possible origin of non-ideal radiations in ultrasonic thermal therapy coming from the applicators housing and modifying the expected radiation patterns // Una propuesta sobre el posible origen de radiaciones no-ideales en terapia termal ultrasónica procedentes de la carcasa del aplicador y alterando el campo esperado ÁÍ Ì

349EA

Titanium for Biomedical Application with Radial Graded Porosity: Development of a Novel Compaction Device ÁÍ G

350EA

Lower limb rehabilitation system controlled by robotics, electromyography surface and functional electrical stimulation $\text{ÁÁ} \text{I} \text{H}$

352EB

Fuzzy-ART Neural Networks for Triage in Pleural Tuberculosis $\text{ÁÁ} \text{I} \text{I}$

353SB

Design and construction of the motor system for a gait trainer with step regulator planetary system without changing the gear pairs // Diseño y construcción del sistema motriz para equipo re-entrenador de la marcha con sistema planetario regulador del paso sin intercambio de los pares de engranajes $\text{ÁÁ} \text{I} \text{I}$

356SB

Computer Assisted Design of a rotational molding mold for low cost manufacturing of Upper Limb Prosthetic Device // Diseño Asistido por Computador de un molde de rotomoldeo para producción a bajo coste de prótesis mecánica de miembro superior 356SB $\text{ÁÁ} \text{J} \text{G}$

357SB

Design of dental training devices for taking impression of cleft lip and palate and their respective rotomoulding molds // Diseño de dispositivos de entrenamiento odontológico para tomas de impresión de hendiduras labio palatinas y sus respectivos moldes de rotomoldeo $\text{ÁÁ} \text{J} \text{I}$

361EB

Integrated asset management to hospital based on physical specifications pas 55 standards $\text{ÁÁ} \text{E} \text{I}$

362EB

Evaluation of High-Resolution Spectral Estimation Techniques in Tissue Thermal Characterization under Noisy Broadband Conditions // Evaluación de Técnicas de Estimación Espectral de Alta Resolución para Caracterización Termal bajo Condiciones de Banda-ancha Ruidosas $\text{ÁÁ} \text{E} \text{J}$

365SB

Acquisition System of TTFM Signals in Vascular Flowmetry Based on FPGA Reconfigurable Logic // Sistema de Adquisición de Señales TTFM en Flujiometría Vascular Basado en Lógica Reconfigurable FPGA $\text{ÁÁ} \text{F} \text{I}$

367EB

Automated Pre-Ictal Phase Detection Algorithm from EEG Signals $\text{ÁÁ} \text{G} \text{F}$

370SB

Heart Disease Predictor System Based on Artificial Neural Network // Sistema Predictor de Enfermedad de Corazón Basado en Redes Neuronales $\text{ÁÁ} \text{G} \text{I}$

371SA

Sliding mode control for bilevel positive airway pressure: advantages over PID control // Control por modos deslizantes para la presión positiva binivel en las vías respiratorias: ventajas sobre el control PID $\text{ÁÁ} \text{H} \text{E}$

376EB

Adaptive Schemes for Expanded Diagnosis Image Evaluation $\hat{\mathbb{A}} \text{ H F}$

377EB

Validation of a Dual Energy Technique Using a Single Source Multidetector Computed Tomography Scanner $\hat{\mathbb{A}} \text{ H}$

378EB

Analysis of spectral variations hidden in ultrasonic echoes acquired from healthy and sick liver of Wistar rats $\hat{\mathbb{A}} \text{ I } \in$

381EA

A New Nanostructured Material for Regenerative Vascular Treatments: Magnetic Bacterial Nanocellulose (MBNC)// Nuevo Material Nano-estructurado para Tratamientos Vasculares Regenerativos: Nano-celulosa Bacteriana Magnética $\hat{\mathbb{A}} \text{ I } \hat{\text{I}}$

382EB

Analyzing Wall Thickness of Artery Phantoms in a Noninvasive Way $\hat{\mathbb{A}} \text{ I } \hat{\text{I}}$

383EB

Ultrasonic sorting in polymer-based microdevices: application to early detection $\hat{\mathbb{A}} \text{ I } \text{ G}$

384EA

Advanced Computer Modeling for Microwave Ablation in Breast Cancer $\hat{\mathbb{A}} \text{ I } \hat{\text{I}}$

385SB

Hand Prosthesis with 5 DOF using Embedded Systems // Prótesis de mano con 5 GDL usando sistemas embebidos $\hat{\mathbb{A}} \text{ I } \hat{\text{I}}$

