



ESBME
2008

**6th EUROPEAN SYMPOSIUM
ON BIOMEDICAL ENGINEERING**

Center for Mediterranean Architecture
19 - 21 June 2008, Chania, Ellas

IFMBE   EAEBIT

BIT Unit - Dept. of Medical Physics - University of Patras & Dept. of Electronics and Computer Engineering - Technical University of Crete
<http://esbme2008.upatras.gr>

OFFICIAL PROGRAM

THURSDAY, 19TH JUNE 2008

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|----------------------|---|--|
| 13:30 - 15:00 | REGISTRATION | |
| 15:00 - 15:15 | WELCOME ADDRESSES | |
| 15:15 - 16:00 | OPENING LECTURE | |
| | Genes that shape our ends | Emer. Prof. Joseph Barbenel University of Strathclyde, UK |
| 16:00 - 16:30 | COFFEE BREAK | |
| 16:30 - 18:00 | ORAL - POSTER SESSION – S1 | |
| 18:00 - 19:00 | OPENING CEREMONY | |
| | The evolution of Medical Physics and Biomedical Engineering in Greece | Emer. Prof. Basil Proimos University of Patras, GR |
| 19:00 - 22:00 | SYMPOSIUM WELCOME EVENT | |

FRIDAY, 20TH JUNE 2008

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| 9:30 - 11:00 | ORAL - POSTER SESSION – S2 | |
| 11:00 - 11:30 | COFFEE BREAK | |
| 11:30 - 12:00 | INVITED LECTURE | |
| | Novel laser based 2D and 3D microstructuring techniques for biological applications | Dr. Anthi Ranella Foundation for Research and Technology, GR |
| 12:00 - 13:00 | POSTER SESSION – PS | |
| 13:00 - 14:30 | LUNCH BREAK | |
| 14:30 - 15:00 | INVITED LECTURE | |
| | Microprocessor systems – an integral part of the education and research in the field of BME at Technical University of Varna | Assist. Prof. Ivan Buliev Technical University of Varna, BG |
| 15:00 - 16:30 | ORAL - POSTER SESSION – S3 | |
| 16:30 - 17:00 | COFFEE BREAK | |
| 17:00 - 17:30 | INVITED LECTURE | |
| | In Vivo Optical Molecular Imaging for Optical Biopsy: Technology Development and Clinical Implementation | Assoc. Prof. Costas Balas Technical University of Crete, GR |
| 17:30 - 19:00 | POSTER SESSION – PS | |
| 19:00 - 23:00 | OFFICIAL SYMPOSIUM DINNER (DEPARTURE FROM THE SYMPOSIUM VENUE) | |

SATURDAY, 21ST JUNE 2008

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| 9:30 - 11:00 | ORAL - POSTER SESSION – S4 | |
| 11:00 - 11:30 | INVITED LECTURE | |
| | Some "question marks" on breast cancer biotechnology | Dr. Antonios Keramopoulos IASO Hospital, Athens, GR |
| 11:30 - 12:00 | COFFEE BREAK | |
| 12:00 - 13:00 | ROUND TABLE – Biomedical Engineering Education today | |
| 13:00 - 13:30 | CLOSING OF THE SYMPOSIUM | |

THURSDAY, 19TH JUNE 2008

16:30 - 18:00

ORAL - POSTER SESSION – S1

| AUTHORS | TITLE | CODE |
|---|--|--------------|
| T. S. Papatheodorou, A. Kalou and T. Pomonis | A NEW SYSTEM FOR INTERNET USERS, PREDICTING THE ARRANGEMENT OF THE STRANDS OF SANDWICH PROTEINS | S1.01 |
| D. Caballero, J. Bausells, J. Samitier and A. Errachid | HIGHLY SELECTIVE ANTI-HSA PATTERNING ON ALDEHYDE-TERMINATED Si ₃ N ₄ SURFACES FOR BIOSENSOR APPLICATIONS | S1.02 |
| S. Tassani, D. Monari, C. Öhman, M. Baleani, F. Baruffaldi, L. Cristofolini, M. Viceconti | LOCAL ANISOTROPIC ANALYSIS OF OSTEOARTHRITIC TRABECULAR BONE MICROSTRUCTURE | S1.03 |
| A. Swillens, E. Rietzschel, M. De Buyzere and P. Segers | NUMERICAL, EXPERIMENTAL AND CLINICAL ASSESSMENT OF WAVE REFLECTIONS IN THE HUMAN ARTERIAL TREE | S1.04 |
| E.I. Konstantinidis, P.D. Bamidis, D. Koufogiannis | DEVELOPMENT OF A GENERIC AND FLEXIBLE HUMAN BODY WIRELESS SENSOR NETWORK | S1.05 |
| M. Stork, Z. Trefny | ELECTRONIC SYSTEM FOR NONINVASIVE QUANTITATIVE SEISMOCARDIOGRAPHY EXAMINATION | S1.06 |
| A. Hachoł, E. Szul-Pietrzak, E. Pelczar | IOP MEASUREMENTS COMPARISON IN PATIENTS BEFORE AND AFTER THE LASIK TREATMENT – A STATISTICAL MODEL CONSIDERING CORNEA GEOMETRY CHANGES AFTER THE TREATMENT | S1.07 |
| M.I. Giamalaki, I.S. Karanasiou and N.K. Uzunoglu | RETRIEVAL OF THE CONDUCTIVITY VARIATION PROFILE VIA THE INVERSE PROBLEM OF A PASSIVE MICROWAVE IMAGING SYSTEM | S1.08 |
| M. Stork, V. Zeman and J. Novak | THE DIAGNOSTIC SYSTEM AND COMPUTER PROGRAMME FOR OPTIMAL PHYSICAL ACTIVITY PRESCRIPTION | S1.09 |
| N.P. Asimakis, I.S. Karanasiou and N.K. Uzunoglu | MULTIBAND CONFORMAL PATCH ANTENNAS FOR DIAGNOSIS IN HUMAN BRAIN USING NEAR FIELD RADIOMETRY | S1.10 |
| M. Stubenrauch, U. Fröber, D. Voges, C. Schilling, H. Witte and M. Hoffmann | BIO-MEMS FOR NEW METHODS IN TISSUE ENGINEERING | S1.11 |
| E. Mylona, Z.H. Dailiana, X. Trepap, and M.G. Lagoudakis | SUBSTRATE RIGIDITY DICTATES PHENOTYPE, SURVIVAL, AND MECHANICS OF PRIMARY HUMAN OSTEOSARCOMA CELLS | S1.12 |
| G. Papoutsoglou, A. Tsapras, W.P. Scouter, C. Balas | MODELLING OF EPITHELIAL TRANSPORT PHENOMENA RELATED WITH THE ACETOWHITENING OPTICAL CHARACTERISTICS: POTENTIAL FOR THE IN-VIVO DIAGNOSIS OF CERVICAL NEOPLASIA | S1.13 |

FRIDAY, 20TH JUNE 2008

9:30 - 11:00

ORAL - POSTER SESSION – S2

| AUTHORS | TITLE | CODE |
|--|--|--------------|
| A. Karagiannis, Ph. Constantinou | ANALYSIS OF A BIOSIGNAL ACQUIRED BY A WIRELESS SENSOR NETWORK BY MEANS OF THE EMPIRICAL MODE DECOMPOSITION | S2.01 |
| E. Alexandratou, G. Agrogiannis, N. Kavantzias and D. Yova | COMPUTER-AIDED GRADING OF PROSTATE CANCER BASED ON TEXTURE ANALYSIS | S2.02 |
| A. Croitor Sava, T. Laudadio, J.B. Pouillet, D. Monleon, M.C. Martinez-Bisbal, B. Celda and S. Van Huffel | DATA FUSION OF HR-MAS AND IN VIVO INFORMATION WITH APPLICATION IN BRAIN TUMOR RECOGNITION | S2.03 |
| K. Masuda, T. Imai, T. Sakai and T. Yoshinaga | DEVELOPMENT OF AUTOMATIC RECOGNITION SOFTWARE OF SPATIAL DISTRIBUTION OF ACOUSTIC WINDOW FOR ECHOCARDIOGRAPHY | S2.04 |
| M.G. Kounelakis, M.E. Blazadonakis, M.E. Zervakis, G.J.Postma, L.M.C.Buydens, A. Heerschap and X. Kotsiakos | FEATURE SELECTION FOR BRAIN TUMOR CLASSIFICATION USING RATIOS OF METABOLITES' PEAK AREAS FROM (MRSI) DATA | S2.05 |
| P. Kutilek and J. Hozman | NON-CONTACT AND NON-INVASIVE METHOD FOR MEASUREMENT OF HEAD POSTURE IN NEUROLOGY | S2.06 |
| Zs. Tarjanyi, Z. Banko, Cs. Szekrenyesi, J. Abonyi and Gy. Kozmann | QUANTITATIVE EMOTIONAL RESPONSE ANALYSIS | S2.07 |
| D. Soimu, Z. Kamarianakis | SMALL ANIMAL IMAGING WITH HELICAL CBCT | S2.08 |
| D. Gorpas, K. Politopoulos, E. Alexandratou and D. Yova | SOLUTION OF THE INVERSE PROBLEM IN FLUORESCENCE IMAGING BASED ON DATA FITTING AND IMAGE FINE TUNING TECHNIQUES | S2.09 |
| G.A. Giannakakis, M. Vavatsioulas, C. Papageorgiou and K.S. Nikita | STATISTICAL TIME-FREQUENCY DIFFERENTIATIONS OF ERP IN DYSLEXIA USING MATCHING PURSUIT ALGORITHM | S2.10 |
| M. Kowalska, H.Kasprzak and M. Danielewska | SPECTRAL CORRELATION BETWEEN BINOCULAR LONGITUDINAL CORNEAL APEX MOVEMENTS AND BLOOD PULSATION | S2.11 |
| Ch.A. Frantzidis, E.L. Dafli, P.M. Malindretos, A.D. Salonikiou, K.I. Vegoudakis, Th.N. Kostelidou, Ch.I. Anastasiadou, P.D. Bamidis | ATRIAL FIBRILLATION DETECTION BASED ON eSTETHOSCOPE, WAVELET DECOMPOSITION AND APPROXIMATE ENTROPY | S2.12 |
| M.A. Klados, C. Papadelis, C.D. Lithari, C.A. Frantzidis and P.D. Bamidis | REMOVAL OF OCULAR ARTIFACTS FROM EEG SIGNALS: A COMPARISON OF TECHNIQUES | S2.13 |
| A. Tsapras, E. Terzakis, A.M. Makris, E. Papadakis, G. Papoutsoglou, E. Papagiannakis, C. Tsatsanis, E.N. Stathopoulos, C. Balas | HYPERSPECTRAL IMAGING FOR SKIN CANCER DIAGNOSIS IN MICE | S2.14 |

FRIDAY, 20TH JUNE 2008**15:00 - 16:30****ORAL - POSTER SESSION – S3**

| AUTHORS | TITLE | CODE |
|---|---|--------------|
| M. Fukunaga, T. Katsuhara and S. Hirokawa | A 3D MODEL ANALYSIS OF ARTIFICIAL KNEE JOINT DURING SQUATTING | S3.01 |
| A. Tsamis and N. Stergiopoulos | ARTERIAL REMODELING IN RESPONSE TO INCREASED BLOOD FLOW USING A CONSTITUENT-BASED MODEL | S3.02 |
| Z. Kamarianakis, I. Buliev, N. Pallikarakis | CLCT: A C++ LIBRARY FOR COMPUTED TOMOGRAPHY APPLICATIONS | S3.03 |
| T. Katsuhara, M. Fukunaga, S. Hiirokawa | CONTACT ANALYSIS OF COMPLETE FLEXION KNEE USING 3D MODEL OF TOTAL KNEE ARTHROPLASTY | S3.04 |
| A. Kanterakis, D. Kafetzopoulos, V. Moustakis and G. Potamias | DECOMPOSITION OF GENE REGULATORY NETWORKS INTO FUNCTIONAL PATHS AND THEIR MATCHING WITH MICROARRAY GENE EXPRESSION PROFILES | S3.05 |
| P. Cristea and R. Tuduce | DETECTION AND ANALYSIS OF HORIZONTAL TRANSFERS IN PROKARYOTE GENOMES | S3.06 |
| K. Odie, K.W. Moloney, B.P. McMahon, H. Gregersen | DYNAMIC AND STEADY STATE SIMULATIONS OF GASTROESOPHAGEAL REFLUX | S3.07 |
| A. Dermitzakis, I. Buliev, K. Filos and N. Pallikarakis | FUZZY LOGIC CONTROLLER FOR WEANING OF CONSCIOUS PATIENTS FROM MECHANICAL VENTILATION: A SIMULATION STUDY | S3.08 |
| J. Culik | NEW TYPE OF BRACE FOR SCOLIOSIS TREATMENT AND ITS COMPUTER AID DESIGN | S3.09 |
| M. Piglione, A. Gastaldi, M. Faone, M. Vanni and G. Baldi | SIMULATION OF TRANSPORT AND DEPOSITION OF AEROSOL IN THE ALVEOLAR ZONE OF THE HUMAN AIRWAYS | S3.10 |
| M.S. Poboroniuc, G. Paicu, M.C. Stefan and D. Irimia | A LABORATORY BENCH TO TEST A NEUROPROSTHESIS CONTROL PRIOR TO USING IT ON PARAPLEGICS | S3.11 |
| K. Kubica | COMPUTER SIMULATION ON THE INDUCTION STEP IN ELECTROPORATION | S3.12 |
| C. Tanase | PERISTALTIC PROCESS MODELLING CONSIDERATIONS | S3.13 |
| Ph. Reymond, F. Merenda, F. Perren, D. Rüfenacht and N. Stergiopoulos | VALIDATION OF 1D MODEL OF THE SYSTEMIC ARTERIAL TREE INCLUDING THE CEREBRAL CIRCULATION | S3.14 |

SATURDAY, 21ST JUNE 2008

9:30 - 11:00

ORAL - POSTER SESSION – S4

| AUTHORS | TITLE | CODE |
|---|---|--------------|
| V. Mornstein, I. Provazník, D. Vlček, C.J. Caruana | THE CONTRIBUTION OF THE MEDICAL FACULTY, MASARYK UNIV., BRNO, TO THE EDUCATION OF BIOMEDICAL TECHNOLOGISTS | S4.01 |
| P. Malataras, B. Gkergekis, E. Rizou | EXPLOITING NEW EDUCATIONAL TOOLS FOR BIOMEDICAL TECHNOLOGY COURSES | S4.02 |
| I. Castenetto, A. Fundone, A. Giannoni, A. Donatelli, C. Lamberti | IMPROVING THE EFFICIENCY OF A CLINICAL ENGINEERING MAINTENANCE SERVICE BY AN OUTSOURCING SOLUTION OR AN INTERNAL ONE? THE THIRD WAY | S4.03 |
| T. Giannouli, S. Gorgogiannis, D. Kolios, S. Pasaloglou, E. Paziou, F. Rodis, G. Pappous | APPLICATION OF A WEB BASED REGISTRY FOR MEDICAL DEVICES | S4.04 |
| M. Adaloglou, E. Dafli, V. Koutkias, P. Bamidis, C. Papas | APPLIED ELECTRONIC GUIDELINES FOR HYPERTENSION TREATMENT & RISK ASSESSMENT IN PRIMARY HEALTHCARE | S4.05 |
| P. Mitkas, C. Maramis, A. Delopoulos, A. Symeonidis, S. Diplaris, M. Falelakis, F. Psomopoulos, A. Batzios, N. Maglaveras, I. Lekka, V. Koutkias, T. Agorastos, T. Mikos, A. Tatsis | ASSIST: EMPLOYING INFERENCE AND SEMANTIC TECHNOLOGIES TO FACILITATE ASSOCIATION STUDIES ON CERVICAL CANCER | S4.06 |
| S. Gorgogiannis, T. Giannouli, D. Kolios, F. Rodis, G. Pappous | DEVELOPMENT OF A WEB BASED REGISTRY FOR MEDICAL DEVICES | S4.07 |
| L. Pecchia, L. Mirarchi, R. Doniacovo, N. Paolino, M. Bracale | DYNAMIC PREVENTIVE MAINTENANCE TRIGGERED BY UTILIZATION DATA: A CASE STUDY FOR MRI EQUIPMENT | S4.08 |
| L. Pecchia, L. Bisaccia, M. Sansone, L. Argenziano, M. Bracale | TECHNOLOGY ASSESSMENT FOR EX-ANTE EVALUATION OF INTEGRATION OF AMBULATORY FOLLOW-UP AND HOME MONITORING A CASE STUDY ON CHF | S4.09 |
| U. Bracale, G. Pignata, E. Di Salvo, R. Tranfaglia | E- LEARNING AND MINI-INVASIVE SURGERY | S4.10 |
| R. Tranfaglia, P. Truglia, F. Picariello, M. Bracale | A PROPOSAL OF THE USE OF RFID TECHNOLOGY FOR THE MANAGEMENT OF PATIENT CARE IN THE HOSPITAL | S4.11 |
| C. Brancaleone, R. Tranfaglia, U. Bracale | A VIRTUAL CLASSROOM FOR DISTANCE LEARNING IN MININVASIVE SURGERY | S4.12 |
| R. Tranfaglia, C. Brancaleone, M. Bracale | A PROPOSAL OF A PROTOCOL FOR EVALUATING AN E-LEARNING PLATFORM | S4.13 |

FRIDAY, 20TH JUNE 2008

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| 12:00 - 13:00 | POSTER SESSION – PS |
| 17:30 - 19:00 | POSTER SESSION – PS |

| AUTHORS | TITLE | CODE |
|--|--|--------------|
| M. Sochor, K. Balík, T. Suchý, Z. Sucharda, M. Černý and L. Bačáková | MODIFICATION OF COMPOSITE MATERIALS BY BIOACTIVE ADDITIVES | PS.01 |
| M. Petrtyl, L. Senolt, H. Hulejova, P. Cerny, Z. Krulis, Z. Bastl, J. Danesova, Z. Horak | SMALL BI-COMPONENT IMPLANTS FOR OSTEOCHONDRAL DEFECTS | PS.02 |
| A Marta E. Londoño, B Claudia E. Echeverri and C Catalina Vallejo G | SYNTHESIS AND CHARACTERIZATION OF POLYVINYL ALCOHOL (PVA) HYDROGELS BY FREEZING/THAWING | PS.03 |
| R. Sedlacek, Z. Tuzarova | THE ANALYSIS OF THE INFLUENCE OF IMPLANT SURFACE ROUGHNESS ON THE WEAR OF UHMWPE CUP | PS.04 |
| Ch. G. Manopoulos, A. Lazopoulos, S. Tsangaris | BLOOD FLOW AND ARTERIAL WALL INTERACTION OF AN ARTERY SEGMENT: EXAMINING OF A NAVIER-STOKES SOLUTION IN CONTRAST TO A ONE-DIMENSIONAL APPROACH | PS.05 |
| V. Dinca, A. Palla Papavlu, C. Constantinescu, P. Florian, M. Icriverzi, F. Chelu, N. Scarisoreanu, M. Filipescu, A. Moldovan, A. Roseanu and M. Dinescu | PRELIMINARY STUDIES ON BIOLOGICAL COMPOUNDS LAYERS AND PATTERNS FOR BIOMEDICAL APPLICATION | PS.06 |
| D. Vlk, V. Mornstein, C.J. Caruana | A MEDICAL BIOPHYSICS LABORATORY PRACTICAL CURRICULUM FOR BIOMEDICAL TECHNOLOGY AND BIOINFORMATICS STUDENTS | PS.07 |
| F. Nogata, Y. Yokota, Y. Kawamura, H. Morita, Y. Uno, and W.R Walsh | A TECHNIQUE FOR ESTIMATING ARTERIOSCLEROSIS USING ULTRASOUND IMAGES OF THE COMMON CAROTID ARTERY | PS.08 |
| E. Drakaki, E. Kaselouris, M. Makropoulou, A.A. Serafetinides, A. Tsenga, A.J. Stratigos, A.D. Katsambas, and Ch. Antoniou | LASER-INDUCED FLUORESCENCE SPECTROSCOPY FOR <i>EX VIVO</i> DIAGNOSIS AND CLASSIFICATION OF BASAL CELL SKIN CARCINOMA | PS.09 |
| C. Ravariu, F. Ravariu, D. Mihaiescu and A. Rusu | NON-LINEAR ELECTRICAL CONDUCTION THROUGH TESTOSTERONE UNDECANOATE AND RETHINOL OILY SOLUTIONS | PS.10 |
| E. Krajčovičová, M. Martinková, R. Konopková, M. Fejtová and J. Otáhal | SOFTWARE FOR SYNCHRONOUS ELECTROPHYSIOLOGICAL AND IMAGE RECORDINGS AND HIGH LEVEL MATHEMATICAL ANALYSIS | PS.11 |
| W. Nowak, K. Chémali, A. Hachoł and M. Nakayama | TIME-FREQUENCY ANALYSIS OF THE HUMAN PUPIL REACTIVITY IN SMALL FIBER NEUROPATHY | PS.12 |
| V. Markaki, P. Asvestas and G. Matsopoulos | AN ITERATIVE POINT CORRESPONDENCE ALGORITHM FOR IMAGE REGISTRATION IN DENTAL SUBTRACTION RADIOGRAPHY | PS.13 |
| H. Schiabel, K. C. Silva and F.L.S. Nunes | ASYMMETRY DETECTION IN MAMMOGRAPHY DIGITIZED IMAGES: A TOOL FOR CAD SCHEMES | PS.14 |
| M. Vlachos and E. Dermatas | BIOMETRIC IDENTIFICATION BASED ON FEATURES EXTRACTED FROM RETINAL IMAGES USING PCA | PS.15 |
| G. Apostolopoulos, S. Tsinopoulos, M. Vlachos and E. Dermatas | ESTIMATION OF SIZE AND SHAPE OF THE HUMAN RED BLOOD CELL USING LIGHT SCATTERING IMAGES | PS.16 |
| G. Pichis, I. Pratikakis, N. Arikidis, C. Kalogeropoulou, A. Karahaliou and L. Costaridou | EVALUATION OF MUTUAL INFORMATION BASED REGISTRATION OF BONE LYTIC DISEASE CT FOLLOW UP DATA | PS.17 |
| D. Apostolopoulos, A. Karatrantou, P. Korfiatis, S. Skiadopoulos, N. Arikidis, L. Costaridou, P. Vasilakos, G. Panayiotakis | PLATELET BASED DE-NOISING IN MYOCARDIAL PERFUSION SPECT IMAGING | PS.18 |
| P. Korfiatis, C. Kalogeropoulou, A. Karahaliou and L. Costaridou | SUPERVISED TEXTURE CLASSIFICATION FOR SEGMENTATION OF ABNORMAL LUNG IN CT | PS.19 |
| T. Princi, E. Stenner, B. Biasioli, D. Peterec and A. Accardo | THE HEART RATE VARIABILITY IN A FEMALE ÉLITE POTHOLER AT REST AND DURING THE CAVE EXPLORATION: A CASE REPORT | PS.20 |
| S. Rahbar, M.D. Abolhassani and A.H. Jafari | THE RELATIONSHIP BETWEEN THE AUDTORY BRAINSTEM RESPONSE AND ITS RECONSTRUCTED WAVEFORMS FOLLOWING DUAL-TREE COMPLEX WAVELET TRANSFORM | PS.21 |

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| S.D. Georgiadis, P.O. Ranta-aho, J-P. Niskanen, M. Valkonen-Korhonen and P.A. Karjalainen | A SIGNAL SUBSPACE APPROACH FOR SINGLE-TRIAL EVOKED POTENTIAL ESTIMATION | PS.22 |
| M. Vlachos and E. Dermatas | ROBUST REGION CHARACTERIZATION AND FINGER VEIN PATTERN EXTRACTION IN INFRARED IMAGES USING RBF NEURAL NETWORKS | PS.23 |
| F. Kalimeris, K. Bliznakova and N. Pallikarakis | 3D BREAST IMAGING USING DIGITAL TOMOSYNTHESIS: SIMULATION STUDIES | PS.24 |
| L. Tersi, R. Stagni, P. Masini, S. Fantozzi, A. Cappello | 3D FLUOROSCOPY TO ANALYSE ELBOW KINEMATICS | PS.25 |
| K. Bliznakova, Z. Bliznakov and N. Pallikarakis | A VOXEL-BASED MONTE CARLO RADIOTHERAPY SIMULATOR | PS.26 |
| E. Vergés, D. Ayala, S. Grau and D. Tost | BIO-CAD ANALYSIS OF POROSITY IN BIOIMPLANTS | PS.27 |
| G. Georgoulas, V. Georgopoulos and C.D. Stylios | INVESTIGATING ARTICULATING DISORDERS USING EMPIRICAL MODE DECOMPOSITION | PS.28 |
| S. Kazakli, K. Bliznakova, N. Pallikarakis | MAMMOGRAPHY SIMULATION: COMPRESSED BREAST PHANTOM STUDIES | PS.29 |
| E. Tsolaki, K. Bliznakova, N. Pallikarakis | SIMULATION DESIGN AND CHARACTERISTICS OF MULTILEAF COLLIMATORS AT ROTATIONAL RADIOTHERAPY | PS.30 |
| V. Manoliu, C. M. Stanescu and K. Branidou | STUDY OF MECHANISMS THROUGH WHICH OBESITY AFFECTS THE CARDIOVASCULAR SYSTEM | PS.31 |
| E. Zoulias, P.A. Asvestas, G.K. Matsopoulos, N. Uzunoglu, S. Tseleni-Balafouta, H. Gakiopoulou | A DATA MINING APPROACH FOR CLASSIFYING FNA THYROID DATA | PS.32 |
| F. Rodis, T. Giannouli, S. Gorgogiannis, E. Paziou, E. Saridakis, G. Pappous | SOP's FOR THE QUALITY CONTROL OF SPECIFIC GROUPS OF MEDICAL DEVICES | PS.33 |
| I. Bakavos and I. Apostolakis | PROCEDURE FOR THE CERTIFICATION OF HEALTH RELATED WEBSITES | PS.34 |
| R. Barbieri, G. Salzano, E. Balanou, D. Nelos, D. Tzanos | PROMOTING HOME DIALYSIS THROUGH TELEMEDICINE | PS.35 |
| S. Gorgogiannis, T. Giannouli, D. Kolios, S. Pasaloglou, F. Rodis G. Pappous | THE ROLE OF EKEVYL IN e-HEALTH INFRASTRUCTURE | PS.36 |
| S. Pasaloglou, T. Giannouli, D. Kolios, S. Nashashibi, G. Pappous | DEPICTION OF THE SITUATION OF MAMMOGRAPHY IN GREECE | PS.37 |
| G.A. Malandraki, B. Sutton, A.L. Perlman, D. Karampinos, and C. Conway | IDENTIFYING NEURAL ACTIVATION OF SWALLOWING AND ITS COMPONENTS IN HEALTHY YOUNG ADULTS USING FMRI | PS.38 |
| A.I. Nicu, R.V. Ciupa, D.V. Rafiroiu, M. Voinicu | A DYNAMIC MODEL OF THE CARDIAC VENTRICULAR ACTION POTENTIAL | PS.39 |
| A. Petri, A. Kastania, M. Kyriazi, M. Rallis and D. Yova | ASSESSMENT OF THE KERATINOCYTES' MORPHOLOGICAL CHARACTERISTICS ALTERATIONS BY IMAGE PROCESSING AFTER UV RADIATION | PS.40 |
| A. Ranella, V. Melissanaki, A. Giakoumaki, M. Vamvakaki, A. Tosca, S. Krüger-Krasagakis, M. Farsari, C. Fotakis | HYBRID MATERIALS FOR TISSUE ENGINEERING | PS.41 |
| A. Palla-Papavlu, V. Dinca, M. Dinescu, M. Filipescu, M. Moisescu, D. Iancu | MICROPRINTING OF DNA PATTERN BY ND:YAG LASER | PS.42 |
| I. Hołowacz, A. Ulatowska-Jarża, M. Nowicka, U. Bindig, H. Podbielska | SOL-GEL COATINGS FOR FIBEROPTICS APPLICATORS FOR LASERTHERAPIES | PS.43 |
| M.C. Stefan, M. Poboroniuc, Gh. Livint and D.C. Irimia | FES-BASED FUZZY LOGIC CONTROLLER TO SUPPORT STANDING IN PARAPLEGIA | PS.44 |
| C. Dormer, T Ward and S. McLoone | TOWARDS ENHANCED BIOFEEDBACK MECHANISMS FOR UPPER LIMB REHABILITATION IN STROKE | PS.45 |
| P. Malataras, Z. Kamarianakis, K. Stavrianou, Z. Bliznakov, E. Valchinov, E. Panoutsopoulou, F. Papathanasopoulos, N. Pallikarakis | MEDICAL DEVICES QUALITY AND SAFETY CONTROLS UNIT: STANDARDS TO DEVELOP, NEEDS TO ADDRESS, CHALLENGES TO FACE | PS.46 |
| G. Edelmayer, P. Mayer | USER INTERFACE FOR A MOBILITY ENHANCEMENT SYSTEM | PS.47 |