

Poster Session

- conf102a38** **Design and Realisation of Experimental Device for Particular Biomechanics System Testing**
Ing. Martin Houfek, Ing. Vladimír Fuis, Ing. Tomáš Návrát, Ing. Pavel Hlavo (Czech Republic)
- conf102a253** **Frequency Response of Porcine Skin**
Catherine Manuela K. Lee, Gregory Tangonan, Maria Leonora Guico, Jimson Ngeo (Philippines)
- conf102a285** **Nonlinear Autoregressive Moving Average Modeling of Human Postural Sway During The Simultaneous Two-dimensional Perturbation**
Warakorn Charoensuk, Ittichote Chuckpaiwong, Eakaluck Thammacharoen, Chatchai Neatpisarnvanit (Thailand)
- conf102a140** **A High-Sensitive Large-Active-Area Light-Blocking based Optical Touch Switch for Disabled**
Sarun Sumriddetchkajorn, Ratthasart Amarit (Thailand)
- conf102a250** **Analysis of Human Postural Sway with a Two-Dimensional Perturbation Platform**
Ittichote Chuckpaiwong, Eakkaluck Thammacharoen, Warakorn Charoensuk (Thailand)
- conf102a332** **Integration of Wireless EMG and Position Detection System for Assessing Dynamic Control of Pelvic Floor Muscles**
Chia-Ho Chen (Taiwan)
- conf102a310** **Lab VIEW based Clinical Analyser**
U.Siva Prakash, G.Vela Deepa, P. Munaswamy (India)
- conf102a172** **Acoustic Signals Enhancement by Level-Wavelet-Dependent Thresholding of Undecimated Wavelets**
Andrew K. Ng, T.S. Koh (Singapore)
- conf102a114** **Efficient and high throughput screening algorithm for blood cancer cells**
Jong Sook Iris Choi, Wael Badawy (Canada)
- conf102a103** **Management of Experimental Data Based on Database and Image Data Mining**
Zhao Yuanyuan, Ye Derong, Chen Yanhong (China)
- conf102a128** **Comprehensive Processing of Photomicrographs for automatic Karyotyping**
Ganesh Vaidyanathan.S, Kumaravel, Bibhas Kar, Srinivasan .K (India)
- conf102a149** **Phase-contrast Based Hard X-ray Imaging in Medical Applications**
Shuqian Luo (China)
- conf102a111** **Promotion of in vitro osteoid formation and magnetically activated biomolecule release using sponge-like calcium carbonate microspheres**
David W Green, Dominic Walsh, Stephen Mann, Richard OC Oreffo (United Kingdom)
- conf102a207** **Comprehensive analysis of plantar pressure in diabetic type 2 subjects with and without neuropathy**
Acharya Rajendra Udyavara, Tan Peck Ha, Conrad Chung Kang Rui, Diana Goh Shu Yi (Singapore)
- conf102a271** **Culturing liver cells on gelatin microspheres versus PHBV microspheres**
Zhu Xin Hao, Yen Wah Tong, Chi-Hwa Wang (Singapore)
- conf102a95** **Study of tissue differentiation of the mesenchymal stem cells by mechanical stimuli**
Heoung-Jae Chun, Kun-Sung Oh, Sung-Ho Byun, Hyung-Jin Jung (Korea)
- conf102a274** **Cell-Sheet Technology for Ligament/Tendon Tissue Engineering Application**
Zheng Ye, Goh Cho Hong James, Toh Siew Lok (Singapore)
- conf102a280** **A Multi-Drug Resistant Tuberculosis (MDR-TB) Monitoring System Using an SMS-linked Online Database**
Maria Leonora C. Guico, Catherine Manuela L. Ramos, Gregory L. Tangonan, John Q. Wong (Philippines)
- conf102a176** **System of processing and diffusion of cardiac signals in the web**
Ricardo Godoi Vieira, Ciro Jose Egoavil Montero, Ana Paula Slussarek, Jucara Loli De Oliveira (Brazil)

- conf102a132** **Internet Call Center based Medical Information Consultation System: Design and Practice**
Li Dong Guo (China)
- conf102a161** **Analysis and management system of network ultrasonic image**
Qiang Tao (China)
- conf102a333** **Biomechanical Analysis of Muscle Tone for Spinal Cord Injured Rat**
Tsung-Hsun Hsieh (Taiwan)
- conf102a113** **Experimental and numerical studies in carotid bifurcation model with different bifurcation angle and asymmetric inlet velocity profile**
Z. Ding, Y. Wang, S. Yang, G. Sun (China)
- conf102a77** **Stress analysis of the radial head replacements in an elbow articulation**
Pavel Hlavon, Vladimir Fuis, Tomas Navrat, Martin Houfek (Czech Republic)
- conf102a81** **Mechanical properties of the spinal fixator DYNESYS**
Tomas Navrat, Florian Zdenek, Jan Cienciala (Czech Republic)
- conf102a23** **Effects of Dynamic Wall on Unsteady Flow in Arteries**
Fan He (China)
- conf102a338** **Finite element analysis of post-cam mechanism in posterior-stabilized knee prosthesis**
Chang-Hung Huang, Jiann-Jong Liau, Chun-Hsiung Huang, Cheng-Kung Cheng (Taiwan)
- conf102a25** **Discussing the effect of external fixator pin thickness and distance change to fracture place in distribution of stress around Tibia bone**
Siamak Khorramymehr, Karim Leilnahari (Iran)
- conf102a329** **Relaxation Behaviors of the Twisted Artificial Ligaments**
Jyh-Kun Shiau, Cho-Lin Wang, Ming-Chou Ku, Guan-Liang Chang (Taiwan)
- conf102a330** **Mechanical Properties of the Artificial Cruciate Ligaments under Pre-twisted Angles**
Cho-Lin Wang, Jyh-Kun Shiau, Ching-Ze Dong, Ming-Chou Ku (Taiwan)
- conf102a68** **Effects of Metatarsal Pads on Pressure Distribution for High Heel Shoes**
Yan Zhang, Jia Yu, Ka Man Mok, Ming Zhang (Hong Kong)
- conf102a10** **Influence of rough surfaces on static frictional characteristics and sliding mechanics of orthodontic systems**
Sarder Elius Sadique, Seeram Ramakrishna, Andrew W. Batchelor (Malaysia)
- conf102a110** **Complex analysis of shape deviations of the head and the cup of the total hip joint endoprosthesis**
Vladimir Fuis, Tomas Navrat, Pavel Hlavon, Martin Houfek (Czech Republic)
- conf102a263** **Patellar Tracking: an in-vitro biomechanical study**
Wongwit Senavongse (Thailand)
- conf102a281** **Finger force control during opening a jar using precision handling**
Chih-Chung Wu, Wen-Lin Tung, Fong-Chin Su (Taiwan)
- conf102a144** **An actin-driven model for neuronal growth cone motility and axon guidance**
Wei-ping Zhu, Zhai Zhang (China)
- conf102a316** **Geometric Mismatch of Retrograde Insertion Technique in the Thai humerus: A Virtual Simulation Study**
Panya Aroonjarattham, Pongnarin Jiamwatthanachai, Kriskrai Sitthiseripratip, Banchong Mahaisavariya (Thailand)
- conf102a317** **An Optimal Entry Point for Retrograde Nailing in the Thai Femur: A reverse engineering technique**
Nattapon Chantarapanich, Kriskrai Sitthiseripratip, Banchong Mahaisavariya, Pongwit Siribodh (Thailand)
- conf102a318** **Geometric Mismatch of Retrograde Nail in the Thai Femur: A Virtual Simulation Study**
Nattapon Chantarapanich, Kriskrai Sitthiseripratip, Banchong Mahaisavariya, Bancha Chernchujit (Thailand)
- conf102a210** **An new Mechanical Testing method for Bone Cement**
Xiaoling Wang, WW Lu, WM Lam, ZY Li (Hong Kong)

- conf102a212 **Insulator-based Dielectrophoresis manipulator integrated with planar patch clamp on a single PDMS substrate**
Lidan Xiao, Jinjiang Yu, Ping Wang, Mo Yang (Hong Kong)
- conf102a231 **Nanostructured biomedical micro cell chip with impedance spectroscopy for anti-cancer drug screening**
Yu Jinjiang, Liu Qingjun, Yang Mo (Hong Kong)
- conf102a139 **An Algorithm of 3D Registration between Maxilla/Mandible and Dental Cast**
Apipon Visetvitsakul, Chanjira Sinthanayathin, Wisarut Bholsithi, Wichit Tharanon (Thailand)
- conf102a159 **Automatic exudates detection from non-dilated diabetic retinopathy retinal image using fuzzy C-means clustering**
Akara Sopharak, Bunyarit Uyyanonvara (Thailand)
- conf102a299 **Cardiomegaly Detection in Fetus using Ultrasound Image**
Nipon Theera-Umporn, Peerachet Porkaew, Sansanee Auephanwiriyaikul, Supakorn Siddhichai (Thailand)
- conf102a216 **Effect of leucine for bone generation in porous hydroxyapatite scaffolds**
Yasunori Shimomura, Masataka Yoshikawa, Norimasa Tsuji, Hiroyuki Hayashi (Japan)
- conf102a237 **Osteogenesis in porous hydroxyapatite scaffolds immersed in laminin**
Masataka Yoshikawa, Norimasa Tsuji, Yasunori Shimomura, Hiroyuki Hayashi (Japan)
- conf102a101 **The development of light-cured acrylic resin for bone replacement**
Siriporn Tanodekaew, Somruethai Channasanon (Thailand)
- conf102a105 **Development of the patent policy in the biomedical field of China and its analysis**
Li Ji (China)
- conf102a109 **An Inverse Kinematics System for F1-ATPase Nano-Motor Manipulation**
Borripat Kittiwut, Jackrit Suthakorn (Thailand)
- conf102a118 **The Effect of Dialysis on the Properties of High Flux Dialysis Membranes**
A.H. Ucisik, M.E. Aksoy, M. Usta (Turkey)
- conf102a121 **Numerical simulation of microbubble in a liquid-filled flexible tube**
A.F. Nowakowski, F. Changir, B.V. Libroch (United Kingdom)
- conf102a153 **Bovine Serum Albumin adhesion force measurements using an atomic force microscopy**
Chun-Chih Lai, Nunzio Motta, John M. Bell (Australia)
- conf102a162 **Scenar Therapy for Myofascial Pain Syndrome**
In Bo Han, Ryoong Huh (Korea)
- conf102a164 **Scenar Therapy for lymphadema**
Ryoong Huh, In Bo Han (Korea)
- conf102a168 **A new method to detect subtle activity in ECG**
D V Prasad, R Swarnalatha (United Arab Emirates)
- conf102a170 **Analysis of EMG of forearm muscles for the control of powered prosthesis**
Wang Hong, Li Feng, Li Qi, Liu Chong (China)
- conf102a185 **The Effect of Surface Charge on protein adsorption**
Omid Moradi (Iran)
- conf102a186/335 **Fabrication of modified canasite-based glass ceramics for biomedical applications by powder processing method**
Naruporn Kanchanarat (Thailand)
- conf102a193 **Strontium phosphate chloride nanowire reinforced bioactive bone cement**
Lam WM, Li ZY, Wong CT, Abbah SA (Hong Kong)
- conf102a194 **Characteristics and Mechanical Properties of Acryloipamidronate Treated Strontium Containing Bioactive Bone Cement**
Li ZY, Yang C, Lu WW, Xu B (Hong Kong)

- conf102a20** **Nanoscale topographic cues affect the proliferation and differentiation of MG63 cells on collagen scaffolds**
Shiao-Wen Tsai, Ya-Yun Cheng (Taiwan)
- conf102a211** **Numerical Simulation of Phoenix Type Total Artificial Heart**
X.L. Yang, Yang Liu, J.M. Yang (Hong Kong)
- conf102a225** **The adsorption of sodium (Na), potassium (K) and calcium (Ca) ions on AA and HEMA Surfaces**
Mohammad Reza Allah Ghohi Ghasri, Omid Moradi, Sousan Raouli, Nima Razzaghi Asl (Iran)
- conf102a244** **Assessment of left atrial function non-invasively**
Weichih Hu, Ming-Hong Wu, Hsuan-Ming Tsao, Liang Yu Shyu (Taiwan)
- conf102a254** **Development of 3D Bioactive Scaffolds for Hemostatic Applications**
EYL Teo, Shin-Yeu Ong, Jia Lu, Shabbir Moochhala (Singapore)
- conf102a255** **Effects of scener therapy on heart rate variability (HRV)**
Whan-Seok Choi, Seong-Hyun Kim, Kyung-Jin Lee (Korea)
- conf102a256** **A novel DNA storage method at planar platforms for combined bio- and digital information storage**
Jie Jiang, Wing Cheung Mak, Dieter Trau (Singapore)
- conf102a259** **Control permeable Layer-by-Layer surface engineered hydrogel platform for optical biosensor array**
Cheung Kwan Yee, Mak Wing Cheung, Trau Dieter (Singapore)
- conf102a264** **A new algorithm for Automatic Image Retrieval and Segmentation using Wavelet**
N Vijayakalyani, J Srinivasan (India)
- conf102a265** **RNA Interference (RNAi) for Tendon Regeneration: Collagen V Knockdown**
Ricky R Lareu, Ouyang Hong Wei, Michael Raghunath, James Goh (Singapore)
- conf102a268** **A one-dimensional numerical model for the simulation of blood flow on arteries**
Eduardo Soudah, Eugenio Oñate (Spain)
- conf102a273** **Probing the Mechanical Properties of Breast Cancer Cells using Atomic Force Microscopy**
Q.S. Li, C.T. Lim (Singapore)
- conf102a275** **The Trp2 Allele of COL9A2 Alters the Human Intervertebral Disc Mechanics**
Aladin DK, Lu WW, Cheung KMC, Chan D (China)
- conf102a286** **Aortic Impedance in Dwarf Mice**
Anilkumar K. Reddy, George E. Taffet, Mark L. Entman, Craig J. Hartley (United States)
- conf102a288** **A Particle Image Velocimetry Study of Valve Type and Valve Orientation on the Fluid Dynamics of the 12 cc Penn State Pediatric Ventricular Assist Device**
Benjamin T. Cooper, Breigh N. Roszelle, Steven Deutsch, Keefe B. Manning (United States)
- conf102a289** **Preliminary screening the antibacterial component of Paris polyphylla**
Liu Weiqi, Wang Bochu, Guan Luhan, Sui Jing (China)
- conf102a3** **Model of coronary circulation system and investigation of EECF system influences**
Amir Mokhlessi, Mohamad Ali Khalil zadeh, Ali Moghimi, Homa Falsoleiman (Iran)
- conf102a30** **Hidden Markov Tree Model Applied to the Detection of Micro-calcification Clusters in Mammograms**
Carlos S. Lima, Manuel J. Cardoso (Portugal)
- conf102a305** **Preparation of nanofibers from keratin and its blend with PHBV for biomedical applications**
Inn-Kyu Kang, Kyo-Han Kim, Sukyoung Kim (Korea)
- conf102a308** **Nano-grained hydroxy apatite coatings on titanium from ultrasonated bath for bio-implantation**
Kyo Han Kim, Tae Yub Kwon, R. Narayanan (Korea)
- conf102a32** **Swelling Kinetics and Diffusion Coefficients of Chitosan-Polyacrylamide Hydrogels Designed for Biomedical Applications**
Agustin Martinez-Ruvalcaba, Alejandro Gonzalez-Alvarez, Juan C. Sanchez-Diaz, Fausto Becerra-Bracamontes (Mexico)

- conf102a4** **Power density spectra of the velocity waveforms in Artificial heart valves**
Sakhaeimanesh Ali A. (Iran)
- conf102a54** **Architectures of Mobile Pocket PC and Laboratory-PC Brain-Computer Interfaces**
Edlinger Guenter, Krausz Gunther, Laundl Franz, Niedermayer Ingo (Austria)
- conf102a58** **SCENAR Therapy for pain control**
Kyung Jin Lee, Whan Suk Choi, Rhoong Huh, Young Soo Kim (Korea)
- conf102a59** **An estimation method of electrode structure and parameter in Electrical Impedance Tomography**
Ren Chaoshi, Sha Hong, Zhao Shu, Wang Yan (China)
- conf102a64** **Electrostatic effect of substrate charge on rearrangement of fibroin silk protein from Samia ricini and consequent cell proliferation and morphology**
Pimpun Chumningan, Waeowalee Choksawangkarn, Katanchalee Mai-Ngam (Thailand)
- conf102a65** **Carboxylic acid terminated self-assembling monolayer functionalized glasses for reverse dot blot applications**
Monthika Pothavorn, Morakot Sakulsombat, Katanchalee Mai-Ngam (Thailand)
- conf102a7** **Design of an artificial high flexion knee**
Sudesh Sivarasu, Lazar Mathew, Vimala Juliet (India)
- conf102a70** **Nonlinear FDTD simulation of temperature fields for**
Jian Xiqi, Jiang Xiaoting (China)
- conf102a76** **Propagation characteristics of ingested sources**
Lawrence Chirwa (United Kingdom)
- conf102a83** **Characterization of Gelatin-Polyacrylamide Hydrogels and its Application as Drug Delivery**
Alejandro Gonzalez-Alvarez, Agustin Martinez-Ruvalcaba, Juan C. Sanchez-Diaz, Fausto Becerra-Bracamontes (Mexico)
- conf102a84** **Baroreflex Sensitivity without beat-to-beat blood pressure measurement**
Youngjoon Chee, Jongshil Lee, Inyoung Kim, Sunil Kim (Korea)
- conf102a87** **Recent achievements in developing mini axial and maglev radial blood pumps**
Kun-xi Qian, Frank Feng (China)
- conf102a91** **Surface Modification of Lanthanide Doped Nanocrystals for Bioapplications**
Lnitha Appavoo, Yong Zhang (Singapore)