

**The 7th International Conference on Biomedical Engineering in Vietnam, June 27-29, 2018, Ho Chi Minh City, Vietnam  
Conference Oral Program**

**Day 1: 27 Jun, 2018**

<b>8:00 – 8:30</b>	<b>REGISTRATION</b>
<b>PLENARY SESSION W1 – Room: A2.104</b>	
<b>8:30 – 9:30</b>	<b>The Opening of the Conference</b>
<b>9:30 – 10:20</b>	<b>Keynote Lecture by Jeff Bulte</b> Clinically Applicable MR Tracking of Naked, Scaffolded and Encapsulated Cells
<b>10:20 – 10:30</b>	<b>Group photo</b> (A2 Building Entrance)
<b>10:30 – 10:50</b>	<b>COFFEE BREAK - POSTER VIEWING</b>
<b>PLENARY SESSION W2 – Room: A2.104</b>	
<b>10:50 – 11:40</b>	<b>Keynote Lecture by Ruth Nussinov</b> Oncogenic K-Ras signaling and drug discovery
<b>11:40 – 11:50</b>	<i>Award Ceremony: Keylab prize</i>
<b>11:50 – 12:00</b>	MOU signings between IU and National Chung Hsing University, Taiwan & between BME Dept. – IU, Vietnam and BMSE Dept. – GIST, South Korea
<b>12:00 – 13:00</b>	<b>LUNCH - POSTER VIEWING</b>
<b>PARALLEL SESSION W3</b>	
<b>W3A: Medical Instrumentations – Room: A2.401</b>	
<b>SESSION CHAIR</b>	
Paul Milgram	
<b>13:00 – 13:50</b>	<b>Keynote lecture by Paul Milgram</b> <b>206. Augmenting the Field of View for Minimally Invasive Surgery</b>
<b>13:50 – 14:15</b>	<b>62. Vu Duy Hai, Lai Huu Phuong Trung, Pham Manh Hung, Dao Viet Hung, Pham Phuc Ngoc, Phan Dang Hung, Chu Quang Dan and Tran Quoc Vi - Design of Noninvasive Hemodynamic Monitoring Equipment using Impedance Cardiography</b>
<b>14:15 – 14:40</b>	<b>197. Tohru Tani, Atsushi Yamada, Dang Khiem, Shigeyuki Naka, Soichiro Tani and Nguyen Vinh - Overview of Our less Invasive Operation System – Development of Three Dimensional Real-time MR Image Guided Operation System Using Microwave Devices and Relating Technologies –</b>
<b>14:40 – 15:00</b>	<b>COFFEE BREAK - POSTER VIEWING</b>
<b>PARALLEL SESSION W4</b>	
<b>W4A: Medical Instrumentations – Room: A2.401</b>	
<b>SESSION CHAIR</b>	
Paul Milgram	
<b>15:00 – 15:25</b>	<b>186. Atsushi Yamada, Norihisa Nitta, Shigeyuki Naka, Khiem Tran Dang, Shigehiro Morikawa and Tohru Tani - Design and Implementation of Loop Shaped Steering Mechanisms for Flexible Needles</b>
<b>15:25 – 15:50</b>	<b>187. Atsushi Yamada, Shigeyuki Naka, Khiem Tran Dang, Shigehiro Morikawa and Tohru Tani - Development of an MR-Compatible High-Definition Flexible Endoscope for Real-Time MR Image-Guided Microwave Ablation</b>
<b>15:50 – 16:15</b>	<b>199. Sun I. Kim, Jongshill Lee, Dong Pyo Jang and In Young Kim - Development of Bio-Signal Acquisition and Processing System and Its Utilization for Educational Purpose</b>
<b>16:15 – 16:40</b>	<b>16. Minh Hoàng Lý, Minh Khang Nguyễn, Tùng Nhi Trần, Tin Thanh Dang and Anh Dinh - A Non-contact Human Body Height and Weight Measurement Approach using Ultrasonic Sensor</b>
<b>16:40 – 17:05</b>	<b>45. Thanh Hai Le and Pham Hien - Brain Tumor Segmentation using U-Net based Deep Neural Networks</b>
<b>18:00 – 20:00</b>	<b>BANQUET at Van Thanh Tourist Park</b>
<b>PARALLEL SESSION W3</b>	
<b>W3B: Biomaterials and 3D Printing – Room: A2.402</b>	
<b>SESSION CHAIR</b>	
Yuncang Li	
<b>13:00 – 13:50</b>	<b>Keynote lecture by Yuncang Li</b> <b>43. Development of Biocompatible Magnesium-Zirconium-Strontium Alloys for Biodegradable Implant Materials</b>
<b>13:50 – 14:15</b>	<b>220. Bowyer C., Farrer J., Meredith T. and Allan I.U. - DERMA – Wound Care by Design: Transdisciplinary collaborations and strategies for stakeholder engagement</b>
<b>14:15 – 14:40</b>	<b>210. Dang Ngoc Thao Nhi, Le Phuong Hien, Vo Van Toi and Hiep Thi Nguyen - Investigation of Biphasic Calcium Phosphate on Dentin Occlusion for Dentin Hypersensitivity Treatment</b>
<b>14:40 – 15:00</b>	<b>COFFEE BREAK - POSTER VIEWING</b>
<b>PARALLEL SESSION W4</b>	
<b>W4B: Biomaterials and 3D Printing – Room: A2.402</b>	
<b>SESSION CHAIR</b>	
Cuie Wen	
<b>15:00 – 15:25</b>	<b>156. Thi Duy Hanh Le, Volha Liudanskaya, Walter Bonani, Antonella Motta and Claudio Migliaresi - Diatom Particles: A Promising Osteoinductive Agent of Silk Fibroin-Based Scaffold for Bone Regeneration</b>
<b>15:25 – 15:50</b>	<b>191. Hoang Phuc Dang, Phong A. Tran and Dietmar W. Hutmacher - The Use of 3D Printed Microporous-Strut Polycaprolactone Scaffolds for Targeted Local Delivery of Chemotherapeutic Agent for Breast Cancer Application</b>
<b>15:50 – 16:15</b>	<b>132. My Nguyen, Tuyet Le and Ha Tran - Fabrication of Vascular Patch from Porcine Pericardium</b>
<b>16:15 – 16:40</b>	<b>185. Gui Wang and Nghiem Doan - Effect of Magnesium on Mechanical Properties and Degradability of Binary Zn-Mg Alloys</b>
<b>16:40 – 17:05</b>	<b>111. Quan To Minh, Quoc Thang Bui, Van Trinh Ngoc Le, Tuyet Le Thi Vy, Tri Le Quang, Anh Pham Tho Tuan and Ha Tran Le Bao - A Suitable Protocol to Prepare Decellularized Porcine Vessel for Cardiovascular Surgery</b>
<b>17:05 – 17:30</b>	<b>209. Dang Ngoc Thao Nhi, Le Phuong Hien, Vo Van Toi and Hiep Thi Nguyen - A Comparative Study on Hydroxyapatite Derived from Bovine Bones and Synthetic Sources</b>
<b>18:00 – 20:00</b>	<b>BANQUET at Van Thanh Tourist Park</b>

<b>PARALLEL SESSION W3</b>	<b>W3C: Nanomedicine &amp; Drug Delivery Systems – Room: A2.413</b>
<b>SESSION CHAIR</b>	Lee Beom-Jin
13:00 – 13:50	Keynote lecture by Lee Beom-Jin Versatility of Fattigation Platform Nanoparticles in Drug Delivery and Pharmaceutical Applications
13:50 – 14:15	22. Sohyeon Park, Sungwon Jung and Jinkee Hong - Nano-Films for Interfacial Innovation for the Biomedical Technology
14:15 – 14:40	52. Binh Long Vong and Yukio Nagasaki - Redox Polymeric Nanoparticle as an Effective Oral Nanotherapeutics for Inflammatory Bowel Disease and Cancer
14:40 – 15:00	COFFEE BREAK - POSTER VIEWING
<b>PARALLEL SESSION W4</b>	<b>W4C: Nanomedicine &amp; Drug Delivery Systems – Room: A2.413</b>
<b>SESSION CHAIR</b>	Lee Beom-Jin
15:00 – 15:25	117. Diem Huong Tran Nguyen, Dong Yen Pham Nguyen, Linh Phuong Tran Pham, Thanh Nguyet Nguyen Vo, Dai Hai Nguyen and Ki Dong Park - Preparation and Characterization of Redox-Densitive Pluronic F127-based Nanogel as Effective Nanocarrier for Drug Delivery
15:25 – 15:50	123. Ngoc Thuy Trang Le, Yen Nhi Nguyen Thi, Bac Ly Pham Thi, Ngoc Lin Hoang, Cuu Khoa Nguyen and Dai Hai Nguyen - Nanoliposomes as An Efficient Drug Carrier System for Paclitaxel Delivery
15:50 – 16:15	126. Ngoc Tram Nguyen Thi, Hoang Le and Dai Hai Nguyen - Engineering of Hollow Mesoporous Silica Nanoparticles enhancing Drug-loading Capacity
16:15 – 16:40	167. Hang Ta - Novel Bionano-Solutions for Diagnosis and Treatment of Cardiovascular Disease
16:40 – 17:05	90. Ly Loan Khanh, Nguyen Thi Hiep and Vo Van Toi - Fabrication of Gelatin loaded Curcumin/Silver scaffold
18:00 – 20:00	BANQUET at Van Thanh Tourist Park
<b>PARALLEL SESSION W3</b>	<b>W3D: Biomechanics – Room: A2.412</b>
<b>SESSION CHAIR</b>	Guillaume Haiat
13:00 – 13:50	Keynote lecture by Guillaume Haiat Biomechanical Characterization of The Bone-Implant Interface: from In Silico Approaches to The Patient's Bed
13:50 – 14:15	47. Minh-Hien Ngo Thi, Quang-Linh Huynh, Kim-Mai Nguyen Thi, Thuc-Minh Vo Hoang, My-Anh Nguyen Thi and Ngoc-Thang Nguyen - Bio-safety and Bio-efficiency of Microplasma Exposure to Fibroblast Cells L929
14:15 – 14:40	184. Mai Ngoc Anh, Tran Duc Tang, Le Chi Hieu, Vuong Tien Trung, Nguyen Huu Tu, Le Hoai Quoc and Huynh Le Minh - Cost-effective Design & Development of a Prosthetic Hand
14:40 – 15:00	COFFEE BREAK - POSTER VIEWING
<b>PARALLEL SESSION W4</b>	<b>W4D: Round table discussion – Room: A2.412</b>
<b>SESSION CHAIR</b>	Vo Van Toi
15:00 – 16:40	VVToi, Guillaume Haiat, Jeff Bulte
18:00 – 20:00	BANQUET at Van Thanh Tourist Park
<b>PARALLEL SESSION W3</b>	<b>W3E: Translational Health Science and Technology for Developing Countries – Room: A2.411</b>
<b>SESSION CHAIR</b>	Thanh Vo
13:00 – 13:50	Keynote lecture by Thanh Vo How to develop the new techniques of the spinal surgery in Vietnam (as developing country)
13:50 – 14:15	Phan Anh Tuan, Vo Van Thanh - VVT laminoplasty- A New Technique of Modified Hirabayashi- with Lateral Mass Screwing and Spinous Process Wiring for Cervical Myelopathy
14:15 – 14:40	Le Minh Tri, Vo Van Thanh - The One Stage combined Approaches in Lateral Decubitus in using The Anterior Mini-open Thoracotomy or Lumbotomy for Decompression- Interbody Fusion- Fixation and Posterior Pedicle Screw Fixation for Unstable Thoraco-Lumbar Burst Fractures
14:40 – 15:00	COFFEE BREAK - POSTER VIEWING
<b>PARALLEL SESSION W4</b>	<b>W4E: Translational Health Science and Technology for Developing Countries – Room: A2.411</b>
<b>SESSION CHAIR</b>	Thanh Vo
15:00 – 15:25	Tran Hoang Manh, Vo Van Thanh - Using the Set Square to Determine the Ideal Entrance Point and Angle of Screw for Lower Cervical Pedicle Screw Placement
15:25 – 15:50	Ho Nhut Tam, Le Minh Tri, Vo Ngoc Thien An, Vo Van Thanh - Combined Anterior and Posterior Approaches in Lateral Positioning for Thoracic Spinal Tuberculosis
15:50 – 16:15	Vo Ngoc Thien An, Ho Nhut Tam, Vo Van Thanh - Minimal Invasive Tateru Shiraiishi Laminoplasty with Preservation of The Posterior Stabilizing Cervical Muscle Complex for Cervical Spondylotic Myelopathy
18:00 – 20:00	BANQUET at Van Thanh Tourist Park
<b>PARALLEL SESSION W3-4</b>	<b>W3-4F: Recent computational and experimental advances in molecular medicine – Room: A2.410</b>
<b>SESSION CHAIR</b>	Paolo Carloni
13:00 – 16:30	KeyLab Program
18:00 – 20:00	BANQUET at Van Thanh Tourist Park
<b>PARALLEL SESSION W3-4</b>	<b>W3-4G: Newton Workshop: Healthcare opportunities for developing countries – Room: A2.507</b>
13:00 – 17:30	Newton Workshop Program
18:00 – 20:00	BANQUET at Van Thanh Tourist Park

Day 2: 28 Jun, 2018		
<b>PLENARY SESSION T1 – Room: A2.104</b>		
8:00 – 8:30	<b>Keynote Lecture by Wellington Pham</b> Molecular Imaging in The Era of Precision Medicine	
8:30 – 9:20	<b>Keynote Lecture Heragu Sunderesh</b> Deterministic And Stochastic Models For Health Care Systems	T1G: Newton Workshop: Technological Development in Microfluidics, and Point-of-Care – Room: A2.507
9:20 – 10:10	<b>Keynote Lecture by Evan Snyder</b> Using Stem Cells To Model Neurological Disease & Advance Personalized Medicine	
10:10 – 10:30	<b>COFFEE BREAK - POSTER VIEWING</b>	
<b>PLENARY SESSION T2 – Room: A2.104</b>		T2G: Newton Workshop: Lab-on-a-chip & Point of care technologies – Room: A2.507
10:30 – 11:20	<b>Keynote Lecture by Alex Vitkin</b> Photon Mayhem: Using Light for Structural and Functional Assessment of Biological Tissues.	Newton Workshop Program
11:20 – 12:10	<b>Keynote Lecture by Nigel Culkin</b> Entrepreneurial Universities in the Region: A Consensus for Change?	
12:10 – 13:00	<b>LUNCH - POSTER VIEWING</b>	
<b>PARALLEL SESSION T3</b>	<b>T3A: Medical Instrumentations – Room: A2.401</b>	
<b>SESSION CHAIR</b>	Paul Milgram	
13:00 – 13:25	25. Loc Luu and Anh Dinh - Detection of Systole and Diastole Points using Interpolation Method on Seismocardiogram	
13:25 – 13:50	17. Võ Thanh Kiên Nguyễn, Mỹ Linh Tăng, Tín Thanh Dang and Anh Dinh - Application of Computational Anatomy in Primarily Diagnosing Cardiac Status	
13:50 – 14:15	200. Viet Tran, Nam Nguyen, Toi Vo and Thai Do - Implementation of a Pilot Cyber Medical System with Blood Pressure Devices for Telemedicine in Binh Duong Province (Vietnam)	
14:15 – 14:40	163. Thai Do and Toi Vo - A Low Cost High Voltage Power Supply to Use in Electrospinning Machines	
14:40 – 15:00	<b>COFFEE BREAK - POSTER VIEWING</b>	
<b>PARALLEL SESSION T4</b>	<b>T4A: Workshop in Medical Instrumentations and Entrepreneurship – Room: A2.401</b>	
<b>SESSION CHAIR</b>	Nigel Culkin	
15:00 – 15:25	83. Quoc Huynh, Uyen Nguyen and Binh Tran - A Cloud Based System for In-Home Fall Detection and Activity Assessment	
15:25 – 15:50	120. Thinh Nguyen, An Nguyen, Y Nguyen, Toi Vo, Thien Nguyen and Hai Phan - An Accuracy and Reliability Comparison Study of Electronic Uroflowmetry Devices	
15:50 – 16:15	188. Khiem Tran Dang, Tohru Tani, Shigeyuki Naka, Atsushi Yamada and Soichiro Tani - Comparative study of Novel Microwave Coagulation Surgical Instrument and Currently Commercialized Energy Devices in an Animal Model	
16:15 – 16:40	207. Cuc Bui, Phat Huynh, Hao Phan, Trung Le and Toi Vo - Developing neural fuzzy-based unscented Kalman Filter model for atrial fibrillation onset prediction	
16:40 – 17:05	219. Quyen Bao Thi Huynh, Huy Quoc Pham, Nhung Nguyen, Trung Quoc Le and Toi Van Vo - Modeling of acoustic tweezers for the manipulation in biological medial	
17:05 – 17:30	Case Study: Pitching Presentation	
<b>PARALLEL SESSION T3</b>	<b>T3B: Regenerative Medicine &amp; Tissue Engineering – Room: A2.402</b>	
<b>SESSION CHAIR</b>	Nguyen Thi Hiep - Nghiem Doan - Cressida Bowyer	
13:00 – 13:50	Keynote lecture by Cuie Wen 46. Titanium Based Shape Memory Alloy Scaffolds Fabricated by Electron Beam Melting	
13:50 – 14:15	32. Yen-Chung Lu, Yan-Jong Tang and Shu-Ping Lin - The Characteristics of Polyurethanes Made of 1,6-Hexane Diisocyanate and Polytetramethylene Oxide	
14:15 – 14:40	55. Le Nguyen Hoang Mai, Nga Nguyen Thi, Giang Nguyen Dien Thanh, Thanh Nguyen Thi Ngoc and Hue Nguyen Thi - Optimization of High Resolution Melting (HRM) Method for Genotyping and Estimating Frequency of SNP rs4284505 in The Vietnamese Breast Cancer	
14:40 – 15:00	<b>COFFEE BREAK - POSTER VIEWING</b>	
<b>PARALLEL SESSION T4</b>	<b>T4B: Regenerative Medicine &amp; Tissue Engineering – Room: A2.402</b>	
<b>SESSION CHAIR</b>	Nguyen Thi Hiep - Nghiem Doan - Cressida Bowyer	
15:00 – 15:25	95. Laura Truong, Nghiem Doan, Peter Reher and Thien Duong - Dental Implant or Dental Transplant: A Two Case Report	
15:25 – 15:50	171. Truc-Thanh Nguyen, My-An Nguyen-Le and Hiep-Thi Nguyen - Fabrication of Novel Injectable Bone Substitute N,O Carboxymethyl Chitosan (NOCC) - Aldehyde Hyaluronic Acid (AHA) - Biphasic Calcium Phosphate (BCP)- Polyvinyl Phosphonic Acid (PVPA) for Bone Regeneration	
15:50 – 16:15	170. Huy Quang Do, Thanh Minh Dang, Nam Hai Nguyen, Trinh Van Le, Tien-Trieu Pham-Le, Luan Van Tran, Tuong-Vi Thi Pham, Vinh Xuan Dinh Nguyen, Khon Chan Huynh, Ai-Xuan Le Holterman and Nhung Hai Truong - Granulocyte Colony-Stimulating Factor Alleviates the Pathological Condition in Bile Duct Ligation in Mice	
16:15 – 16:40	92. Nghiem Doan, Laura Truong, Joshua Doan and Peter Reher - Overcoming Single Dental Implant Failure using Two Small Implant Support for One Crown: Five Year Retrospective Study	
16:40 – 17:05	94. Joshua Doan, Laura Truong, Peter Reher and Nghiem Doan - A Three Year Retrospective Study on the Use of Concentrated Growth Factor (CGF) on Dental Patients Who Undergo Oral Regenerative Treatment	
17:05 – 17:30	202. Linh Thuy Ba Nguyen, Thi-Hiep Nguyen, Chan-Khon Huynh, Byong-Taek Lee and Hua Ye - Composite Nano-Fiber Mats Consisting of Biphasic Calcium Phosphate Loaded Polyvinyl Alcohol – Gelatin for Biomedical Applications	

<b>PARALLEL SESSION T3</b>	<b>T3C: Nanomedicine &amp; Drug Delivery Systems – Room: A2.413</b>
<b>SESSION CHAIR</b>	Lee Beom-Jin
13:00 – 13:50	21. Thanh Tk Nguyen - Nanoparticles for Biomedical Applications
13:50 – 14:15	23. Anton Fojtik - Laser for NANO (Bio-medical); Pioneering Pulsed Laser Synthesis of Colloids.
14:15 – 14:40	148. Phan Thi Thanh Hue and Nguyen Van Cuong - Synthesis of Curcumin-Loaded Chitosan/ Poly(Ethylene Glycol-Poly(Caprolactone) Nano Composite for Medicine Applications
14:40 – 15:00	<b>COFFEE BREAK - POSTER VIEWING</b>
<b>PARALLEL SESSION T4</b>	<b>T4C: Lab-on-a-chip &amp; Point of care technologies – Room: A2.413</b>
<b>SESSION CHAIR</b>	Masahiro Takei
15:00 – 15:50	Keynote lecture by Masahiro Takei Electrical impedance spectroscopy tomography and its medical engineering application
15:50 – 16:15	30. Ching-Fang Wang and Shu-Ping Lin - The Detections of Glucose, Galactose, and Dopamine by Boron-Modified Silicon Nanowires Field-Effect Transistor
16:15 – 16:40	31. Nai-Jia Chen and Shu-Ping Lin - The Electrical Effects of Reduced Graphene Oxide Nanoribbons under the Exposure of Varied Wavelengths of Light
16:40 – 17:05	179. Han Ly, Thanh-Xuan Le, Hoang-Tuan Nguyen, Van-Toi Vo, Cécile M. Perrault and Khon Huynh - Improvements in DNA Extraction and Loop-mediated Isothermal Amplification (LAMP) assist Application of LAMP on Malaria Point-of-care Diagnostic Devices.
17:05 – 17:30	33. Kai-Wei Shih and Shu-Ping Lin - The Platform of Vaccine Development Using Silicon Nanowire Field-Effect Transistors
<b>PARALLEL SESSION T3</b>	<b>T3D: Biophotonics – Room: A2.412</b>
<b>SESSION CHAIR</b>	Pham Thi Thu Hien - Ngo Thanh Hoan
13:00 – 13:50	Keynote lecture by Ping Xue 70. Ultrahigh Speed 3D Optical Coherence Tomography Imaging
13:50 – 14:15	34. Thao Pham, Kristen Tgavalekos, Angelo Sassaroli and Sergio Fantini - Coherent Hemodynamics Spectroscopy for Dynamic Measurements of Absolute Cerebral Blood Flow
14:15 – 14:40	203. Minhee Kim, Thien Nguyen, Jung Lee, Kun Lee, Kyu Choi, Jung Park, Byeong Kim, Jeonghwan Gwak and Jae G. Kim - Investigation of Cerebral Hemodynamic Changes in Mild Cognitive Impairment due to Alzheimer's Disease during A Verbal Fluency Task
14:40 – 15:00	<b>COFFEE BREAK - POSTER VIEWING</b>
<b>PARALLEL SESSION T4</b>	<b>T4D: Biophotonics – Room: A2.412</b>
<b>SESSION CHAIR</b>	Pham Thi Thu Hien - Ngo Thanh Hoan
15:00 – 15:25	29. Viet-Hoan Le, Ki Hean Kim and Seunghun Lee - In Vivo Longitudinal Visualization of Bone Marrow Engraftment Process in Mouse Calvarium Bone Marrow with Two-Photon Microscopy
15:25 – 15:50	149. Tran Thanh-Long and Pham Thi-Thu-Hien - Designing and Building The Vein Finder System Utilizing Near-Infrared Technique
15:50 – 17:30	Meeting between BME Department - IU, Vietnam and BMSE Department- GIST, South Korea (VVTôi, Jae Kim, NTHoan, PTTHien...)
<b>PARALLEL SESSION T3</b>	<b>T3E: Round Table Discussion – Room: A2.411</b>
<b>SESSION CHAIR</b>	Vo Van Toi
13:00 – 14:40	VVTôi, Sun Kim (HanYang, Korea), NTHiep
<b>PARALLEL SESSION T3-4</b>	<b>T3-4F: Recent computational and experimental advances in molecular medicine – Room: A2.410</b>
<b>SESSION CHAIR</b>	Nguyen The Toan
13:00 – 16:30	KeyLab Program
<b>PARALLEL SESSION T3</b>	<b>T3-4G: Newton Workshop: SHTP Tour</b>
13:00 – 16:30	SHTP Tour
<b>Day 3: 29 Jun, 2018</b>	
<b>PARALLEL SESSION F1</b>	<b>F1A: Biomedical Signal and Image Processing – Room: A2.401</b>
<b>SESSION CHAIR</b>	Vu Duy Hai
8:00 – 8:25	18. Đinh Nguyễn Nguyễn, Duy Quang Nguyễn, Tin Thanh Dang and Anh Dinh - Counting Eyes Blinking using Haar Cascade and A Handy Way to Diagnose Dry Eyes Disease
8:25 – 8:50	50. Vo Thi Hong Tuyet, Nguyen Thanh Binh and Nguyen Chi Thanh - Edge Detection in Low-Quality Medical Images based on Augmented Lagrangian Method and B-spline
8:50 – 9:15	68. Tran Thanh Huy, Le Quoc Khai and Huynh Quang Linh - Analyzing The Brain's Response with Visual Stimulation in Reality and Imaginary
9:15 – 9:40	96. Geon Gi, Tae Yeon Kim, Hye Min Park, Jeong Min Park, Dong-Luong Dinh, Soo Yeol Lee and Tae-Seong Kim - Real-time 3D Pose Estimation of Both Human Hands via RGB-Depth Camera and Deep Convolutional Neural Networks
9:40 – 10:05	107. Hung Do, Kien Trang, Van-Su Tran, Linh Mai and Minh-Thanh Vo - Automatic Facial Expression Recognition System using Convolutional Neural Networks
10:05 – 10:20	<b>COFFEE BREAK - POSTER VIEWING</b>
<b>PARALLEL SESSION F2</b>	<b>F2A: Biomedical Signal and Image Processing – Room: A2.401</b>
<b>SESSION CHAIR</b>	Vu Duy Hai
10:20 – 10:45	146. Binh Duong Van, Nghia Nguyen Thanh, Hai Nguyen Thanh and Hung Nguyen Manh - Design of Classifier for Electrocardiography Classification
10:45 – 11:10	151. Vien Nguyen Phuc, Hai Nguyen Thanh and Dat Ngo Duc - DWT Algorithm for Iris Recognition
11:10 – 11:35	155. Le Van Dang, Stanislav S. Makhanov, Le Chi Hieu and Michael Packianather - Development of a Fingerprint Singularity Detection Method based on Moment Invariants for Biometrics and Medical Applications
11:35 – 12:00	162. Nguyen Thanh Binh, Nguyen Huu The, Vo Thi Hong Tuyet, Nguyen Chi Thanh and Nguyen Mong Hien - Pancreas Segmentation in Medical Images based on Gaussian Mixture Model in Bandlet Domain
12:00 – 13:00	<b>LUNCH - POSTER VIEWING</b>

<b>PARALLEL SESSION F3</b>	<b>F3A: Biomedical Signal and Image Processing – Room: A2.401</b>
<b>SESSION CHAIR</b>	<b>Vu Duy Hai</b>
13:00 – 13:25	53. Van Duong Nguyen, Van Thanh Pham, Van An Tran, Tuan Khai Nguyen, Thuy Hang Duong Thi, The Hop Hoang and Duc-Tan Tran - Elevator Motion States Recognition using Barometer Support Indoor Positioning System
13:25 – 13:50	81. Anh Vo, Trung Le, Toi Vo and Trieu Le - Predictive Modelling for Cardiovascular Disease Mortality in Intensive Care Units
13:50 – 14:15	72. Nguyen Thi Minh Huong, Nguyen Trong Nguyen and Huynh Quang Linh - Features Extraction from Electroencephalogram with Visual Stimulus
14:15 – 14:40	76. Tram Anh Pham Thi, Diem Hang Nguyen Thi, Khai Le Quoc and Quang Linh Huynh - Application of Portable EEG Device in Detection and Classification Drowsiness by Support Vector Machine
<b>PARALLEL SESSION F1</b>	<b>F1B: Public Health – Room: A2.402</b>
<b>SESSION CHAIR</b>	<b>Nguyen Le Thanh An - Thanh Bui</b>
8:00 – 8:50	49. Thanh Bui - Mobile-Health to Support Smoking Cessation in Developing Countries: A Pilot Study in Cambodia
8:50 – 9:15	54. Men Nguyenthi, Hang Dang Thuy and Minh Nguyễn Hồng - Model of Information Technology in Management of Medical Equipment.
9:15 – 9:40	59. Anh Bui, Dao Trung, Ky Minh, Trung Nguyen, Hung Dinh, Lien Tran, Nga Nguyen, Priya Vohra, Keven Ji, Eunice Lee, James Campbell and Walter Lee - Establishing a Healthcare Research Network in Vietnam: A Platform for Collaborative Quality Improvement
9:40 – 10:05	194. Khanh Thien Nguyen, Phin Peng Lee, Paul Yock, Ngian Chye Tan, Hiang Khoon Tan and Walter T Lee - Value Signposts in Medtech Development: An Experience from The Field.
10:05 – 10:20	<b>COFFEE BREAK - POSTER VIEWING</b>
<b>PARALLEL SESSION F2</b>	<b>F2B: Public Health – Room: A2.402</b>
<b>SESSION CHAIR</b>	<b>Nguyen Le Thanh An - Thanh Bui</b>
10:20 – 10:45	175. Thi Ngoc Mai Nguyen, Quang Chung Tran, Dat Duong and Ngoc Anh Mai - Design of a Medical Expert System for Consulting Tuberculosis Diagnosis in Vietnam Rural Areas
10:45 – 11:10	127. Nghiem Doan, Huan Do and Hieu Tran - Oral Impacts on Daily Performances of Children 12 and 15-Year-Old in Can Tho City
11:10 – 11:35	218. D.T. Nguyen, V.A. Nguyen, L.D. Do and N. Doan - An Evaluation On Initial Deficiency Of Left Ventricular Systolic Function In Patients With Systemic Hypertension By Speckle Tracking Echocardiography
11:35 – 12:00	216. T.Q. Huynh, D.N. Tran, T.P. Chau, M.T. Nguyen and Nghiem Doan - Biological Alterations of Lung Carcinoma
12:00 – 13:00	<b>LUNCH - POSTER VIEWING</b>
<b>PARALLEL SESSION F3</b>	<b>F3B: Public Health: Cancer Therapy and Reconstructive surgery – Room: A2.402</b>
<b>SESSION CHAIR</b>	<b>Thang Quyet Huynh - Thanh Bui</b>
13:00 – 13:25	217. T.Q. Huynh, D.N. Tran, T.P. Chau, T.M. Huynh, C.H. Trinh and Nghiem Doan - An overview of Immune Checkpoints and Immunotherapy In Cancer
13:25 – 13:50	176. Thang Huynh, Phong Nguyen, Dung Tran and Nghiem Doan - Molecular Alteration of Kras, Nras, Braf, Pik3ca And Pten Loss in Colorectal Adenocarcinoma at Can Tho Oncology Hospital
13:50 – 14:15	215. Thang Huynh Quyet and Nghiem Doan - Primarily Surgical Treatment of Cervical Cancers Diagnosed in Stages IA - IIA at Can Tho Oncology Hospital: An Overview Of 9 Years' Experience 2000-2008
14:15 – 14:40	173. Thang Huynh, Hien Tong, Hien Long, Kha Vo, Luat Huynh, Hien Pham and Nghiem Doan - Lymph Node Dissection by Laparoscopic Surgery in Patients Underwent Right Colon Cancer Treatment
<b>PARALLEL SESSION F1</b>	<b>F1C: Advanced Technologies in Sleep Diagnosis and Sleep Medicine – Room: A2.413</b>
<b>SESSION CHAIR</b>	<b>Duong Quy Si</b>
8:00 – 8:50	Duong-Quy Si, The Role of Biomarkers for Diagnosis of OSA "Fact and Challenges"
8:50 – 9:15	136. Tien Hoang Anh and Duc Nguyen Huu - Study of Sleep Apnea Syndrome in The Patients with Cardiovascular Risk
9:15 – 9:40	91. Laura Truong, Joshua Doan, Peter Reher and Nghiem Doan - Application of Oxygen on Gagging Patients with Sleep Disordered Breathing: Ten Year Retrospective Study
9:40 – 10:05	Trung Le - Predictive Diagnosis and Preventive Treatment of Obstructive Sleep Apnea.
10:05 – 10:20	<b>COFFEE BREAK - POSTER VIEWING</b>
<b>PARALLEL SESSION F2</b>	<b>F2C: Biotechnology – Room: A2.413</b>
<b>SESSION CHAIR</b>	<b>Tien Hoang Anh</b>
10:20 – 10:45	14. Tuan Anh Nguyen and Vu Thuc Oanh Ta - Interaction between Flouro Emulsion and Silane Quaternary Ammonium Salt on Dual Antibacterial and Hydrophobic Fabric of Surgical Gown
10:45 – 11:10	135. Tien Hoang Anh, Truc Tran Thi Thanh and Nhan Vo Thanh - Combination of SST2 and BNP in Predicting The Mortality of ST- Elevation Myocardial Infarction
11:10 – 11:35	204. Vuong M. Pham, Tu H. Nguyen, Tayo Katano, Shinji Matsumura, Akira Saito, Akihiro Yamada, Hidemasa Furue and Seiji Ito - Delayed Nerve Regeneration in Type-2 Diabetic Mice
11:35 – 12:00	36. Ngoc Thuy Linh Do, Quynh Ngan Tran, Trong Thuc Nguyen, Ngoc Phuc Chau Do and Thi Thu Hoai Nguyen - Effects of Culture Conditions on the Antimicrobial Activity in Streptomyces SPP.
<b>PARALLEL SESSION F1-2-3-4</b>	<b>F1-2-3-4D*: Cell Reprogramming And Reproductive Biotechnology Session – Room: A2.104</b>
<b>SESSION CHAIR</b>	<b>Nguyen Van Thuan</b>
8:00 – 17:30	Cell Reprogramming Program
<b>PARALLEL SESSION F1-2-3-4</b>	<b>F1-2-3-4E: Tutorial sessions – Room: A2.411</b>
8:00 – 16:40	Tutorial session
<b>PARALLEL SESSION F1-2</b>	<b>F1-2F: Recent computational and experimental advances in molecular medicine – Room: A2.410</b>
<b>SESSION CHAIR</b>	<b>Ruth Nussinov</b>
8:00 – 12:00	KeyLab Program

<b>12:00 – 13:00</b>	<b>LUNCH - POSTER VIEWING</b>
<b>PARALLEL SESSION F3-4</b>	<b>F3-4F: Recent computational and experimental advances in molecular medicine – Room: A2.410</b>
<b>SESSION CHAIR</b>	<b>Paolo Carloni</b>
<b>13:00 – 16:30</b>	<b>KeyLab Program</b>
<b>PARALLEL SESSION F1-2-3</b>	<b>F1-2-3G: Newton Workshop – Room: A2.507</b>
<b>8:00 – 15:30</b>	<b>Newton Workshop Program</b>