

# 医用・生体工学研究会

〔委員長〕 八木 透 (東京工業大学)  
〔副委員長〕 伊良皆啓治 (九州大学)  
〔幹 事〕 鈴木隆文 (東京大学), 江田英雄 (光産業創成大学)

掲載日 平成21年 3月31日 (火)

開催日 平成20年11月10日 (月) 8:45~17:20  
11月11日 (火) 8:45~17:30

場 所 The Grand Mercure Fortune Hotel, Bangkok, Thailand. バンコク地下鉄 Phra Ram 9 駅下車すぐ。  
バンコクスワンナプーム国際空港からタクシーで約30分。

<http://www.fortunehotel.com/>

共 催 タイ医用電子工学会(ThaiBME),  
IFMBE(International Federation for Medical and Biological Engineering)  
本研究会は, ThaiBME が主催, IFMBE が共催する以下の国際会議と共催で開催された。  
The 3<sup>rd</sup> International Symposium on Biomedical Engineering (ISBME2008)  
The 1<sup>st</sup> Biomedical Engineering International Conference (BMEiCON2008)

議 題 ISBME2008 and BMEiCON2008 特集 (両国際会議からの selected paper による special issue)

- MBE-09-36 OPTIMIZATION OF CONDUCTANCE CATHETER ELECTRODE DISTRIBUTION  
BY GENETIC ALGORITHMS IN THE LEFT VENTRICLE  
C. Thajjiam (Srinakharinwirot University, Thailand)
- MBE-09-37 NONLINEAR DYNAMICS OF THE ELECTROENCEPHALOGRAM OF INFANTS  
WITH PRENATAL COCAINE EXPOSURE  
J.Chaicharn, P. Mahachoklertwattana (Thammasat University, Thailand)  
M.G.Regalado(Cedars-Sinai Medical Center, USA)  
M.C.K.Khoo(University of Southern California, USA)
- MBE-09-38 LIMIT CYCLE AND CHAOTIC BEHAVIORS ON THE DENGUE MODEL IN  
PREGNANT PATIENTS  
R. Kongnuy, P. Pongsumpun (KMITL, Thailand)
- MBE-09-39 CELLULAR AUTOMATA-BASED IDENTIFICATION OF THE PECTORAL MUSCLE  
IN MAMMOGRAMS  
S. Wongthanavasv, V. Tangvoraphonkchai (Khon Kaen University, Thailand)
- MBE-09-40 ROBUSTNESS OF FIDUCIAL CONTOUR INVARIANCE ON SURFACE TO AFFINE  
TRANSFORMATION  
P.Tosranon, A.Sanpanish, C.Pintavirooj (KMITL, Thailand)  
S.Bunluechokchai (KMUTNB, Thailand)
- MBE-09-41 APPLICATION OF 3D MORPHOLOGICAL OPERATIONS IN THE FRAMEWORK OF  
A COMPUTER-ASSISTED DIAGNOSIS SYSTEM TO CONSTRUCT THORAX MASK  
AND REMOVE TRACHEA  
J.Lerdsinmongkol, K.Chaisaowong, S.Roongruangsorakarn (KMUTNB, Thailand)  
T.Aach (RWTH Aachen University, Germany)  
T.Kraus (University Hospital Aachen, Germany)
- MBE-09-42 COMPUTER SIMULATION AND ANALYSIS OF HEMODYNAMIC CHANGES IN  
ABDOMINAL AORTIC ANEURYSMS TREATED WITH FENESTRATED  
ENDOVASCULAR GRAFTS

- Z.Sun, M.M.D.Lawrence-Brown (Curtin University of Technology, Australia)  
T.Chaichana, M.Sangworasil, S.Tungjitkrusolmun (KMITL, Thailand)  
Y.B.Allen, D.E.Hartley (Cook R&D, Australia)
- MBE-09-43 DIABETIC FOOT SYNDROME. A MODERN APPROACH OF TREATMENT  
P. Foltynski, P. Ładyżyński, J. M. Wojcicki, K. Migalska-Musial (Polish Academy of Sciences, Poland)  
G. Rosinski, J. Krzymien, W. Karnafel (Medical University, Poland)
- MBE-09-44 AGE STRUCTURAL TRANSMISSION MODEL FOR LEPTOSPIROSIS  
P.Pongsumpun, T.Manmai, R.Kongnuy (KMITL, Thailand)
- MBE-09-45 ANALYSIS AND COMPARISON OF A CUSTOMIZE INFANT INCUBATOR CHAMBER SHAPE USING FINITE ELEMENT METHOD  
N.Chuaychunu, C.Pintavirooj, S.Choomchuay (KMITL, Thailand)  
M. Lohakan (KMUTNB)
- MBE-09-46 A REVIEW OF AUTOMATIC DRUSEN DETECTION AND SEGMENTATION FROM RETINAL IMAGES  
C.Duanggate, B.Uyyanonvara (Thammasat University, Thailand)
- MBE-09-47 THE DETECTION OF S1-S2 USING FAST FOURIER TRANSFORM AND SEQUENCE ALIGNMENT ALGORITHM  
P. Bangcharoensap, U. Doungsud (Buranarumluk School, Thailand)  
S. Kamolphiwong (Prince of Songkla University, Thailand)
- MBE-09-48 MULTISLICE CT VIRTUAL ENDOSCOPY IN PRE- AORTIC STENT GRAFTING: OPTIMIZATION OF SCANNING PROTOCOLS  
Z.Sun, W.Jiang (Curtin University of Technology, Australia)  
T.Chaichana (KMITL, Thailand)  
B.Liu (University of Traditional Chinese Medicine, China)
- MBE-09-49 MATHEMATICAL MODEL OF DENGUE DISEASE BETWEEN INFANT AND PREGNANT HUMANS  
R.Kongnuy, P.Pongsumpun (KMITL, Thailand)
- MBE-09-50 NOVEL METHOD FOR ASSESSING AUTONOMIC FUNCTION IN SLEEP-DISORDERED BREATHING  
S.j.Tretriluxana (KMITL, Thailand)  
M.C.K.Khoo (University of Southern California, USA)
- MBE-09-51 3D ULTRASONIC REFLECTION TOMOGRAPHY WITH MATRIX LINEAR ARRAY TRANSDUCER  
A.Sanpanich, P.Greesuradej, S.Aootaphao, C.Pintavirooj, M.Sangworasil (KMITL, Thailand)
- MBE-09-52 BITE-ME (BIOLOGICAL INTERPRETATION TOOL FOR MALARIA MICROARRAY DATA)  
K.Inthajak, N.Chaiyawatana, C.Charuchaimontri, B.Uyyanonvara (Sirindhorn International Institute of Technology, Thailand)  
S.Tongsima, S.Chaotheing (National Science and Technology Development Agency, Thailand)
- MBE-09-53 AN ELEMENTARY NON-INVASIVE DETECTION OF HEART MALFUNCTIONS BASE ON ELECTROCARDIOGRAM AND PHONOCARDIOGRAM  
P.Panpho, N.Maneejiraprakarn (Naresaun University, Thailand)  
P.Wardkein (KMITL, Thailand)  
P.Jeanmongkon(Buddhachinaraj Hospital, Thailand)
- MBE-09-54 A REPAIR OF A TIBIA FRACTURE FOR INTERNAL FIXATION WITH OPEN INTRAMEDULLARY USING 3D COMPUTER GRAPHIC ANIMATION  
A.Leelasantitham (University of the Thai Chamber of Commerce, Thailand)
- MBE-09-55 CAPACITIVE AIR BUBBLE DETECTOR FOR MOVING BLOOD IN ARTIFICIAL KIDNEY  
M.G.Abdalrahman, A.B.Adam, J.O.Dennis (Petronas Corporation, Malaysia)
- MBE-09-56 EFFECT OF SUSTAINED CURCUMIN DELIVERY ON HEPG-2 SOLID TUMORS  
S.Kanokpanont, J.Rujisomnapa, Y.Tabata (Chulalongkorn University, Thailand)  
S.Prathumraj (Kyoto University, Japan)  
W.Tantapanichkoon (National Nanotechnology Center, Thailand)

- MBE-09-57 RED BLOOD CELLS EXTRACTION AND COUNTING  
J.Poomcokrak, C.Neatpisarnvanit (Mahidol University, Thailand)
- MBE-09-58 Comparison between Discrete Fourier Transform and Lock-in Algorithm in Power Spectrum Estimation of Steady-State Visual Evoked potential  
T.Narawiwat, C.Chinrungrueng, T.Desudchit (Chulalongkorn University, Thailand)
- MBE-09-59 EYE-MOTION TRACKING USING MOTION GRADIENT  
S. Wibirama, S.Tungjitkusolmun, C. Pintavirooj, K. Vichienchom (KMITL, Thailand)  
V. Mahasitthiwat (Srinakarinviroj University, Thailand)
- MBE-09-60 DENGUE MODEL WITH AGE STRUCTURE AND TWO DIFFERENT SEROTYPES  
P.Pongsumpun (KMITL, Thailand)
- MBE-09-61 THE TRANSMISSION DYNAMICS OF PLASMODIUM VIVAX MALARIA AT THE LOCAL LEVEL  
P.Pongsumpun (KMITL, Thailand)  
I.M.Tang (Mahidol University, Thailand)
- MBE-09-62 A NUMERICAL STUDY ON A PREMATURE CONTACT OF AN IMPLANT-RETAINED CROWN  
E.Chaichanasiri, P.Nanakorn (Thammasat University, Thailand)  
W.Tharanon (National Science and Technology Development Agency, Thailand)  
J.V.Sloten (Katholieke Universiteit Leuven, Belgium)
- MBE-09-63 EXAMINATION OF THE GENERALIZED TONIC-CLONIC SEIZURE USING THE WAVELET-BASED SCALE-VARIANCE  
S.Janjarasjitt (Ubonratchathani University)
- MBE-09-64 THE PORTABLE INSTRUMENT FOR PERIPHERAL VASCULAR DISEASE DETECTION  
N.Maneejiraprakarn, P.Panpho, P.Maneejiraprakarn (Naresuan University, Thailand)  
P.Wardkein (KMITL, Thailand)
- MBE-09-65 OPTIMIZATION OF 3D FDK CONE-BEAM RECONSTRUCTION  
W.Jirattitichareon, T.Srinark (Kasetsart University, Thailand)  
S.Soththivirat, W.Narkbuakaew, S.Watcharabutsarakham, W.Sinthupinyo, P.Thajchayapong  
(National Electronics and Computer Technology Center, Thailand)
- MBE-09-66 MEDICAL COORDINATION WORK BASED IN AGENTS  
A.Aguilera, E.Herrera, A.Subero (University of Carabobo, Venezuela)
- MBE-09-67 HYDROSTATIC CAST SYSTEM: PRESSURE MAPPING OF THE STUMP-WATER INTERFACE  
S.S.S.Shikh, N.A.A.Osman, L.A.Latif (University of Malaya, Malaysia)
- MBE-09-68 GTODB: A GENERIC TOOL FOR THE IMPLEMENTATION OF BIOLOGICAL INTERACTIONS DATABASE  
K.Wanichthanarak, K.Poomputsa (KMUTT, Thailand)  
D.Wichadakul (National Center for Genetic Engineering and Biotechnology (BIOTEC), Thailand)
- MBE-09-69 DEVELOPMENT OF AUDITORY TRAINING PROGRAM FOR HEARING IMPAIRED CHILDREN  
R.Sirichokswad, P.Chanyagorn, W.Charoensuk, K.Lertsukprasert (Mahidol University, Thailand)  
K.Wanichthanarak, P.Boonpramook (KMUTT, Thailand)
- MBE-09-70 Reliability of the Universal and Invented Gravity Goniometers in Measuring Active Cervical Range of Motion in Normal Healthy Subjects  
A.Yankai, P.Manosan (Chiangmai University, Thailand)

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