



MIĘDZYNARODOWE CENTRUM BIOCYBERNETYKI

INSTYTUT BIOCYBERNETYKI I INŻYNIERII BIOMEDYCZNEJ

im. Macieja Nałęcz
POLSKIEJ AKADEMII NAUK

INTERNATIONAL CENTRE OF BIOCYBERNETICS

at the NAŁĘCZ INSTITUTE OF BIOCYBERNETICS AND BIOMEDICAL ENGINEERING
POLISH ACADEMY OF SCIENCES

4 Ks. Trojdena St., 02-109 Warsaw, Poland, tel: (+ 4822) 592 59 70, fax: (+ 4822) 592 59 98
www.ibib.waw.pl, e-mail: mcb@ibib.waw.pl

155th ICB SEMINAR

14th Polish-Japanese Seminar on Biomedical Engineering

MEDICAL INFORMATICS AND BIOMEASUREMENTS

Chairmen:

Prof. Piotr Ładyżyński
Prof. Masayuki Nambu

8-12 June, 2017

Warsaw (Poland) – Tampere (Finland)

PROGRAMME OF THE SEMINAR

9 June, 2017 (Warsaw)

OPENING OF THE SEMINAR

11.00 – 11.15

WELCOME ADDRESS by **Piotr Ładyżyński** (*Poland*)
Director of the International Centre of Biocybernetics

Session I: Biomedical Data Processing and Biomeasurements

Chairmen: Prof. Piotr Ładyżyński, Prof. Masayuki Nambu

- 11.15 – 11.40** **Slawomir Hausman** (*Lodz, Poland*)
“Selected Problems of Wireless Body Area Network Design, Modelling, and Optimization”
- 11.40 – 12.05** **Masayuki Nambu** (*Kyoto, Japan*)
“Data Warehouse System Conjunction with Cohort Data and Clinical Data”
- 12.05 – 12.30** **Dorota G. Pijanowska** (*Warsaw, Poland*)
“Drug Detection Based on DNA-biosensors”
- 12.30 – 12.55** **Goshiro Yamamoto** (*Kyoto, Japan*)
“Visualization of Medical Imaging Data on Corresponding Body Parts”
- 12.55 – 13.20** **Anna Korzyńska** (*Warsaw, Poland*)
“Automatic Analysis of Microscopic Images of Cells and Tissue for Pathology and Cytology”
- 13.20 – 14.20** **LUNCH BREAK**

Session II: Brain Function Research and Applications of NIRS

Chairmen: Prof. Katarzyna J. Blinowska, Prof. Hideo Eda

- 14.20 – 14.45** **Madoka Yamazaki** (*Saitama, Japan*)
“A New Trend in EEG Source Estimation – Dense Array EEG”
- 14.45 – 15.10** **Katarzyna J. Blinowska** (*Warsaw, Poland*)
“Information Transfer in Brain in Motor and Cognitive Tasks”
- 15.10 – 15.35** **Hideo Eda** (*Saitama, Japan*)
“Laterality Index Plot of NIRS Data Clearly Indicates the Difference of the Brain Activation During Kraepelin Performance Test and the 2-Digit Calculation Test”
- 15.35 – 16.00** **Dariusz Janusek** (*Warsaw, Poland*)
“Contrast Enhanced Near Infrared Spectroscopy - In-Vivo Applications”
- 16.00 – 16.25** **Miho Asano** (*Kyoto, Japan*)
“Quantitative Evaluation Indices for Language Recognition Using NIRS”

12 June, 2017 (Tampere)

SNAPSHOT OF MEDICAL INFORMATICS RESEARCH PROJECTS IN JAPAN AND POLAND

The special session at the Join Conference of the European Medical and Biological Engineering Conference (EMBEC'17) and Nordic-Baltic Conference (NBC'17), 11-15 June 2017, Tampere, Finland. The session will be held in Tampere Hall (Room Duetto 1) Yliopistonkatu 55, 33100 Tampere, Finland.

Chairmen: **Piotr Ładyżyński, Masayuki Nambu**

- 15:45 – 16.00** **Tomohiro Kuroda** (Japan)
“Snapshot of Medical Informatics Research in Japan”
- 16.00 – 16.15** **Piotr Foltyński** (Poland)
„Insulin Bolus Calculator with Automatic Speech Recognition”
- 16.15 – 16.30** **Masayuki Nambu** (Japan)
“Data warehouse System Conjunction with Cohort Data and Clinical Data”
- 16.30 – 16.45** **Mariusz Kaczmarek** (Poland)
“A Scales with ECG Measurements Capability for Home Cardiac Monitoring”
- 16.45 – 17.00** **Toshiyo Tamura** (Japan)
“Development of a Chair-Based Cuffless Blood Pressure Monitor for Home Healthcare Systems”
- 17.00 – 17.15** **Mariusz Kaczmarek** (Poland)
“Capacitively Coupled ECG Measurements - a CMRR Circuit Improvement”