

12th Polish – Japanese Seminar
on
BIOMEASUREMENTS AND HEALTH CARE
SYSTEMS
Warsaw 2012

9th of November

Opening of the Seminar : J.M. Wójcicki, T. Tamura (10:00 : 10:15)

Musical Break (10:15 – 10:30)

Session I (10:30 – 12:00) Health care systems I

Chairman: T. Tamura

1. Masayuki Nambu, Osaka Electro-Communication University, Shijonawate, Japan,

“Monitoring system for daily health care using smart phone”

2. Piotr Ładyżyński, Jan M. Wójcicki, Piotr Foltyński, Institute of Biocybernetics and Biomedical Engineering, Polish Academy of Sciences,

“Mobile systems supporting diabetes treatment”

3. Adam Bujnowski, Mariusz Kaczmarek, Jacek Rumiński, Jerzy Wtorek, Faculty of Electronics, Telecommunications and Informatics, Gdansk University of Technology,

“Personalized healthcare solutions for ambient assisted living”

Lunch Break (12:00 – 13:00)

Session II (13:00 – 14:30) Health care systems II

Chairman: T.Togawa

4. Toshiyo Tamura, Osaka Electro-Communication University, Neyagawa, Osaka, Japan,

“Evaluation of web-based home health care for special health checkup in Japan”

5. Arkadiusz Wąsowski, Henryk Skarżyński, Artur Lorens, Anita Obrycka, Adam Walkowiak, Łukasz Bruski, Institute of Physiology and Pathology of Hearing, Warsaw, Poland,

“National Network of Teleaudiology in clinical practice for cochlear implant patients”.

6. Krzysztof Horoba, Institute of Medical Technology and Equipment, Zabrze, Poland,

“Telemedical system for home care of pregnant women with automated online signals interpretation.”

Coffee Break (14:30 – 15:00)

Session III (15:00 – 17:00) Health care systems III

Chairman: M. Nambu

7. Jinko Niitsuma, National Rehabilitation Center for Persons with Disabilities, Tokorozawa City, Japan,

“Personalize and individual fitting of welfare apparatus based on living body measurement of human”

8. Jan M. Wójcicki, Piotr Ładyżyński, Piotr Foltyński, Institute of Biocybernetics and Biomedical Engineering, Polish Academy of Sciences,
“What we can really expect from the telemedicine in diabetes treatment”

9. Hideo Eda, Graduate School for Industrial Creation by Photonics, Hamamatsu, Shizuoka; Photonics Innovations Co. Ltd., Hamamatsu, Shizuoka, Japan
“Study on Health-care innovation through NIRS”

10. Jerzy Walecki, Zbigniew Czernicki, Mariusz Głowacki, Mossakowski Medical Research Centre, Polish Academy of Sciences,
“Teleradiology – State of art”

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Session IV (10:00 – 12:00) Neuro simulations and measurements

Chairman: H.Eda

11. Tatsuo Togawa¹, Hiromasa Yamashita², 1) Advanced Research Center for Human Sciences, Waseda University, Saitama, Japan, 2) Graduate School of Science and Engineering, Waseda University, Tokyo, Japan,
“Simulation of a model of cortical neural structure”

12. Leonora Bużańska, Marzena Zychowicz, Mossakowski Medical Research Centre, Polish Academy of Sciences,
“Stimulation of neural stem cells differentiation by modeling of biofunctional domains”.

13. Sachiko Yoshida, Toyohashi University of Technology, Toyohashi (Aichi), Japan,
“Neurotransmitter imaging using enzyme-linked evanescent photo assay - the roles in development”

14. Ryszard Tadeusiewicz, Academy of Science and Technology (AGH), Krakow, Poland,
“Two and three dimensional models of neuron membrane electrical activity”.

12th of November

Session V (10:00 – 12:00) Sensors Technologies

Chairman: M. Makikawa

15. Satoshi Konishi, Department of Mechanical Engineering, College of Science and Engineering, Ritsumeikan University, Japan,
“Micro Potentiometer Using Ionic Liquid For Minimally Restricted Wearable Sensor”

16. Dorota G. Pijanowska, Władysław Torbic, Institute of Biocybernetics and Biomedical Engineering, Polish Academy of Sciences,
“Developing biosensor and microsystem technologies for applications in medical diagnosis”

17. Renata Bilewicz, Faculty of Chemistry, Warsaw University, Poland,
“Wire ring redox enzyme with electrode in biofuel cells”

18. Agnieszka Suchwałko, Igor Buzalewicz, Halina Podbielska, Institute of Biomedical Engineering and Instrumentation, University of Wrocław,
“Biosensing system for bacteria genera recognition”

Lunch Break (12:00 – 13:00)

Session VI (13:00 – 14:30) Non-invasive biomeasurements

Chairman: S. Konishi

19. Masaaki Makikawa, College of Science and Engineering, Ritsumeikan University, Japan,
“Measurement of Biosignal Using Non-Contact Electrode”

20. Adam Liebert, Institute of Biocybernetics and Biomedical Engineering, Polish Academy of Sciences,
“Brain perfusion assessment in post-traumatic brain injury patients by tracking the passage of an optical contrast agent”

21. Mateusz. Rusiniak, Monika Lewandowska, Tomasz Wolak, Agnieszka Pluta, Rafał Milner, Małgorzata Ganc, Andrzej Włodarczyk, Andrzej Senderski, Lech Śliwa, Henryk Skarżyński, Institute of Physiology and Pathology of Hearing, Warsaw, Poland,
“Auditory attention Network investigation using simultaneous ERP-fMRI”

Closing Remarks (14:30 – 15:00)