

International Workshop on Medical ICT (IWMICT2009)

The 2nd International Workshop on Medical ICT (IWMICT2009) was successfully held at Yokohama National University on September 4, 2009 by Yokohama National University (YNU), Yokohama City University (YCU), National Institute of Communications Technology (NICT) and University of Oulu (UoO).

Under the successful startup of Japanese government Global COE program on Medical ICT project (Leader: Prof. Ryuji Kohno, YNU), this meeting had an important role to promote and foster the strong and sustainable Medical ICT cooperation among UoO, YNU, YCU and NICT based on the MOUs of January 2008.

Total number of the participants to the workshop was over 70 which included the executives from organizations involved in the GCOE program. The whole day program covered status reports by the GCOE leader (Professor Kohno) and every participant organizations (YNU, UoO, YCU, and NICT), technical papers, and discussions especially on the new education scheme aiming at double degrees in the both fields of medicine and engineering. The next workshop will be held March, 2010 at the same venue as this time just for the timing of the interim evaluation of the GCOE program.





International Workshop on Medical ICT (IWMICT2009)

by

YNU, YCU, NICT and UoO (Finland)

Date: September 4(Fri), 2009

Venue: Education and Culture Hall

Yokohama National University, Yokohama, Japan



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Workshop Organizers:

Prof. Ryuji Kohno, Director MICT Center, Leader Global COE (MICT), YNU, Japan
Prof. Jari Iinatti, CWC, University of Oulu, Finland

Contact Persons:

Prof. Nobuyuki Yoshikawa, Sub-Leader Global COE (MICT), YNU (nyoshi@ynu.ac.jp)
Prof. Fujinobu Takahashi, MICT Center, YNU (fjtaka@ynu.ac.jp)
Ms. Hanna Saarela, the development manager, CWC, UoO (hanna.saarela@ee.oulu.fi)



Venue for the Workshop: Education and Culture Hall, YNU



Program:

Part A: September 4th, from 9:00 to 13:00

Reception Speech & Chair by Prof. Yasuo Kokubun, Executive Director and Vice President, YNU

- (1) Opening Addresses from Universities and NICT Executives
 - 1) Kunio Suzuki, Prof., President YNU
 - 2) Tsutomu Fuse, Prof., President YCU
 - 3) Hiroshi Kumagai, Dr., Vice President, NICT
 - 4) Jari Iinatti, Prof., CWC

Chair: Prof. Tadashi Shiomi, Medical ICT Center, YNU

- (2) The Newest Status of Global Cooperation on Medical ICT Program
Ryuji Kohno, Prof., Director MICT Center, Leader GCOE (MICT), YNU
- (3) Bleeding edges on Medical ICT of Participating Institutes:
 - 1) "Recent Research Activities of Yokohama National University on Medical ICT"
Nobuyuki Yoshikawa, Prof., Sub-Leader GCOE (MICT), YNU
 - 2) "Recent Educational and Research Activity in Yokohama City University as a Participating Institute of GCOE"
Tomio Inoue, Prof., YCU
 - 3) "Medical ICT R & D at NICT"
Hachihei Kurematsu, Dr., Wireless Communications Research Center, NICT
Medical ICT R & D at NICT
 - 4) "Wireless Medical Communications"
Jari Iinatti, Prof., CWC, University of Oulu
 - 5) "Research at the Department of Medical Technology, University of Oulu"
Timo Jämsä, Prof., Faculty of Medicine, University of Oulu

(Tea Break: 20 min)

Chair: Prof. Fujinobu Takahashi, YNU

- (4) Technical presentations
 - 1) "Biomedical Engineering and Medical Technology at the University of Oulu - What is new?"
Timo Jämsä, Prof., Faculty of Medicine, University of Oulu
 - 2) "Wireless Medical Communications (WiMeC) CWC research on Medical ICT"
Jari Iinatti, Prof. CWC, University of Oulu
 - 3) "UWB Channel for Wireless Body Area Networks in a Hospital Environment"
Attaphongse Taparugssanagorn, Dr. Tech., CWC, University of Oulu
 - 4) "The blood-flow simulation of the external carotid artery using computational fluid dynamics: Analysis of optimal dose of anticancer drug in superselective intra-arterial infusion for oral cancer"
Kenji Mitsudo, Prof., YCU
 - 5) "Technical presentation Strategy for evaluation of glucose peaks and valleys in daily life"
Yasuo Terauchi, Prof. YCU

Lunch: from 12:30 to 14:00 at TATAMI room

Part A (continued): from 14:00 to 15:45

Chair: Prof. Yasushi Takemura, YNU

- (4) Technical presentations (continued)
 - 6-1) "Modeling the dynamic on-body channel"
Bin Zhen, Dr., NICT
 - 6-2) "Towards Standardization of Body Area Networks"

Marco Hernandez, Dr. NICT

7) YNU young active MICT researchers:

1. “Optically driven microfluidic devices produced by multiphoton microfabrication”
Shoji Maruo, Prof.
2. “Nanoscale Servo Control of Atomic Force Servo Microscope Applicable to Biological Sample Microscope Sample Controller PCJSPM,”
Hirosi Fujimoto, Prof.
3. “Magnetic Nano-particles for Biomedical Applications”
Yuko Ichiyanagi, Prof.
4. “A Finger-Ring Antenna for BAN and PAN applications”
Nobuhiro Kuga, Prof.
5. “Real-World Haptics for Medical and Welfare Support”
Tomoyuki Shimono, Prof.
6. “Efficient transfection method using polyethylenimine coated magnetic nano-particle”
Daisuke Kami, Dr.
7. “Wireless Mesh Network for MICT”
Fumie Ono, Prof.

(Tea Break: 15 min)

Part B: September 4th, from 16:00 to 17:30

- (5) Discussions of the Action Items for our Cooperation

Theme 1: New education program

-The new education scheme on postgraduate double degree program-

Chair: Prof. Nobuyuki Yoshikawa, YNU

- 1a) Challenge to double degrees program among Japanese members

By Yoshihiro Ishikawa, Prof., Dean of Graduate School of Medicine, YCU

- 1b) The challenges for a new educational program as a bridge between medical and engineering fields from Yokohama

By Ryuji Kohno, Prof., Director MICT Center, Leader GCOE (MICT), YNU

- 2) International challenge to new schema of MICT education program

Erasmus Mundus II (2009-2013) –Opportunities for Non-European Countries

By Timo Jämsä, Prof., Faculty of Medicine, University of Oulu

(ERASMUS: The European Community Action Scheme for the Mobility of University Students)

- 3) Discussion

Theme 2: Action items of our cooperation toward next workshop in Finland 2010

Chair: Prof. Jari Iinatti, CWC University of Oulu

Closing Remarks: Prof. Ryuji Kohno

Reception 19:00-21:00



A Grand Exposition for
Yokohama's 150th Year
For 2009.4.28~9.27

