

The 1st Korea fNIRS Forum

(Theme: Toward a mobile brain imager)

October 16 (Fri), 2015; 11:00~15:50 pm

BEXCO, Busan, Korea

The first fNIRS (functional near-infrared spectroscopy) Forum will be held in Busan, Korea, during the International Conference on Control, Automation and Systems (ICCAS 2015, <http://2015.iccas.org>), which is co-organized by the Institute of Control, Robotics and System (ICROS). In this forum, international scholars and experts will be gathered together to discuss the state-of-the-art methods, results, applications, and future perspectives in the fNIRS field.

Plenary Talk (Room # 205)

11:00~12:00 **Functional Near Infrared Spectroscopy-What is it and its potential role in brain-computer interfacing?**

(Prof. David Boas, Harvard Medical School)



Prof. David A. Boas
Harvard Medical School
USA

Lunch: 12:10~13:20

fNIRS Forum

Theme: fNIRS's role as a mobile brain imaging modality

Organizer/Chair: **Prof. Keum-Shik Hong, PNU, Korea**

13:30~13:45 Handling motion, systemic interference, and anatomical guidance for fNIRS

(Prof. David Boas, Harvard Medical School)

13:45~14:00 Artifacts and pitfalls in fNIRS

(Prof. Satoru Kohno, Tokushima University)

14:00~14:15 A unified sparse recovery and inference framework for functional DOT using random effect model

(Prof. Jong Chul Ye, KAIST)

14:15~14:30 fNIRS: An effective neural modality for discovering brain plasticity in rehabilitation

(Dr. Jinung An, DGIST)

< Break: 14:30~14:40 >

14:40~14:55 Towards more intuitive BCI: Classification of binary covert intentions using fNIRS

(Prof. Chang-Hwan Im, Hanyang University)

14:55~15:10 Drowsiness detection during automobile driving by a combined NIRS and EEG system

(Prof. Jae Gwan Kim, GIST)

15:10~15:25 A portable, multi-channel fNIRS system for prefrontal cortex: Preliminary study on neurofeedback and imagery tasks

(Prof. Beop Min Kim, Korea University)

15:25~15:40 Detection of initial dip: Possibility of 3D imaging using fNIRS

(Prof. Keum-Shik Hong, PNU)

15:40~15:50 Discussion

Speakers (in the alphabetical order of last names)

Dr. Jinung An DGIST Korea	Prof. Keum-Shik Hong PNU Korea	Prof. Chang-Hwan Im Hanyang University Korea	Prof. Beop Min Kim Korea University Korea	Prof. Jae Gwan Kim GIST Korea	Prof. Satoru Kohno Tokushima University Japan	Prof. Jong Chul Ye KAIST Korea

Organized by

The 15th International Conference on Control, Automation and Systems (ICCAS); <http://2015.iccas.org>
Institute of Control, Robotics and Systems (ICROS), <http://icross.org>, email: conference@icross.org

Registration

- Registration policy
 - Since the 1st fNIRS forum is a program of ICCAS 2015 (<http://2015.iccas.org>), anyone who register for ICCAS 2015 can attend it.
- **For those who want to attend the fNIRS Forum only**
 - 100,000 Korean Won: fNIRS Forum only
 - 200,000 Korean Won (fNIRS forum + ICCAS banquet + gift pack (USB memory): This is suggested for those who want to talk with Prof. Boas and the Speakers in the Forum.
- Payment method: On site registration using a (research) card is preferred, but cash payment is also accepted.

Forum Location (2nd floor, Convention Hall)



BEXCO (Busan Exhibition and Convention Center) BEXCO is a convention and exhibition center located in Centum City, Haeundae-gu, Busan, Korea.

Address: 55 APEC-ro, Haeundae-gu, Busan
www.bexco.co.kr

Directions

- Exit No. 1, Centum City Station: Approx. 50 m to Exhibition Center 1
- Exit No. 7, Busan Art Museum Station: Approx. 100 m to Exhibition Center 1

By Air

From Gimhae International Airport

- Taxi**
- Distance 26.87 km / Approx. 45 min
 - Fare: 20.000 ~ 30.000 KRW

- Airport Limousine**
- Gimhae International Airport → BEXCO
 - Buses every 20 min, to BEXCO and Haenduae New Town
 - (From BEXCO) First bus: 05:22 / Last bus: 20:32
 - (From Airport) First bus: 06:45 / Last bus: 22:00
 - * The schedule is subject to change and dependent upon traffic condition
 - Fare: Adults 7.000 KRW / Children 4.500 KRW / Approx. 50 min

- Bus**
- City bus 307
 - Gimhae International Airport (International or domestic terminal) → BEXCO
 - Fare: 1.200 KRW / Approx. 1 hour 28 min

- Subway**
- Airport Station (Busan-Gimhae Line) → Sasang Station (Line 2) → Centum City Station: Exit No. 1
 - Number of Stops: 24
 - Fare: 2.000 KRW / Approx. 55 min



By KTX

From Busan Station

- Taxi**
- Distance 13.93 km / Approx. 30 min
 - Fare: 15.000 ~ 20.000 KRW

- Bus**
- Express bus 1001
 - Busan Station → BEXCO Centum City
 - Fare: 1.800 KRW / Approx. 30 min
 - City bus 40
 - Busan Station → BEXCO Centum City
 - Fare: 1.200 KRW / Approx. 40 min

- Subway**
- Busan Station (Line 1) → Seomyeon Station (Line 2) → Centum City Station: Exit No. 1
 - Number of stops: 19
 - Fare: 1.400 KRW / Approx. 45 min

