

Shunji Shimizu graduated from the Department of Electrical Engineering of the Faculty of Engineering, Tokyo University of Science, in 1990. He received a M.A. degree in biomedical engineering from Hokkaido University in 1992. He also received a Ph.D. degree in biomedical engineering from Hokkaido University in 1997. In 1995, he became a research fellow of Japan Society for the Promotion of Science.

In 1997 he became a research fellow of New Energy and Industrial Technology Development Organization and associated to the national project of National Institute of Biology and Human Science. In 1999 he became a researcher of Human Life Technology Research Institute,

Toyama Industrial Technology Center. In 2003, he became a researcher of Brain Science Institute, RIKEN. In 2005, he became a lecture of Tokyo University of Science, SUWA. In 2007, he became an associate professor of Tokyo University of Science, SUWA.

He was a visiting scientist of Brain Science Institute, RIKEN since 2005. He became a visiting researcher of Jichi Medical School since 2005, and visiting researcher of University of Tokyo since 2008.

He has been teaching for the biomedical engineering, brain science, and control theory. His researches focus on analyses of human sensory and motor association and cognitive system. He has also been research new support system for the elderly and disabled people. He is also attempting to make the new assistive devices and virtual reality systems for disabled people.

Recently, Japan had become aging society. It needs to heavily cost in medical and care expenditure. He worked on development of monitoring system for elderly people who live alone as reduce the load of people who engaged in care work. This system have record of the introduction of number of 30,000. Also, he challenges to work on medical use of monitoring system with Suwa Medical and Health Device Research Society and Japanese Red Cross Society Suwa Hospital. Currently, he engages in researching which are purposes of establishing evaluation of welfare devices. This research has been adopted in the S-INNOVATION program, which is provided by Japan Science and Technology Agency.

He is a member of the staff of Nagano Prefecture Business Incubation Support Center. He has contributed to society by supporting the business.

Dr. Shimizu participated in many activities in IARIA events. His team proposed and presented a series of scientific papers. He also delivered a keynote speech at COGNITIVE2012 and was an invited panelist at GLOBAL HEALTH 2012. He is supporting IARIA events on human-computer interaction, cognitive and health aspects.



## **Papers**

(1) Shunji Shimizu, Noboru Takahashi, Hiroyuki Nara, Hiroaki Inoue, Yukihiro Hirata “,Basic study for Human Brain Activity Based on the Spatial Cognitive Task”, COGNITIVE 2011, 2011.9.

(2) Shunji Shimizu, Hiroaki Inoue, Noboru Takahashi, “A Basic Study for Grasping Movement on Cognitive Task”, Cognitive2012, USB-memory, 22<sup>nd</sup>-27<sup>th</sup> July, 2012, Nice ,France.

(3) Shunji Shimizu, Hiroaki Inoue, Hiroyuki Nara, Noboru Takahashi, Fumikazu Miwakeichi, Nobuhide Hirai, Senichiro Kikuchi, Eiju Watanabe, Satoshi Kato,

“The Relationship between Human Brain Activity and Movement on the Spatial Cognitive Task” Cognitive2012, USB-memory, 22<sup>nd</sup>-27<sup>th</sup> July, 2012, Nice ,France.

(4) Hiroaki Inoue, Shunji Shimizu, Hiroyuki Nara, Noboru Takahashi, Takeshi Tsuruga, Fumikazu Miwakeichi, Nobuhide Hirai, Senichiro Kikuchi, Eiju Watanabe and Satoshi Kato, “Fundamental Study to New Evaluation Method Based on Physical and Psychological Load in Care”, Cognitive2012, USB-memory, 22<sup>nd</sup>-27<sup>th</sup> July, 2012, Nice, France.

(5) Hiroaki Inoue, Shunji Shimizu, Hiroyuki Nara, Noboru Takahashi, Takeshi Tsuruga, Fumikazu Miwakeichi, Nobuhide Hirai, Senichiro Kikuchi, Eiju Watanabe, Satoshi Kato, “Fundamental Study to New Evaluation Method Based on Physical and Psychological Load in Care”, GLOBAL HEALTH2012, 21<sup>st</sup>-26<sup>th</sup> October 2012, Venice, Italy.

(6) Shunji Shimizu, Hiroaki Inoue, “Development of New Interface System for Elderly People in Daily Life”, GLOBAL HEALTH2012, 21<sup>st</sup>-26<sup>th</sup> October 2012, Venice, Italy.

### **Another**

(1) “Support System for Elderly People in Daily Life”, Cognitive2012 , 21<sup>st</sup>-26<sup>th</sup> July 2012, Nice France.(Key Note Speech)

(2) IARIA,GLOBAL HEALTH2012 「Global Health 360 Degree Challenge」 2012.10.24 (Panelist)

