2017 Taiwan-Japan Occupational Therapy Joint Symposium

**Host:** Taiwan Occupational Therapy Association (TOTA)

Japanese Association of Occupational Therapists (JAOT)

**Purpose:**

In order to improve occupational therapy professional quality and to promote the professional interaction internationally, we will host a Joint Symposium on October 20th 2017. The symposium includes two themes “Occupation-Based Intervention” and “The Application of Assistive Technology”, and each theme has two topics to be presented by two specialists, each from Taiwan and Japan accordingly. This symposium aims to cover contents ranging from practicing the core values of OT to the new challenges we are facing in the context of modern technologies. The symposium is expected to provide different perspectives from both countries to facilitate future international collaboration and interaction. The symposium is open to everyone.

**Venue:** Chang Gung University (No.259, Wenhua 1st Rd., Guishan Dist., Taoyuan City 33302, Taiwan)

**Time:** 8:50-12:00, October 20th, 2017

**Language:** English

**Contact:** otaroc@ms13.hinet.net

**Agenda:**

<table>
<thead>
<tr>
<th>Time</th>
<th>Activities</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:20-08:50</td>
<td>Registration Open</td>
</tr>
<tr>
<td>08:50-09:00</td>
<td>Opening Remarks: Ling-Hui Chang (TOTA President)</td>
</tr>
<tr>
<td>09:00-12:00</td>
<td>Taiwan-Japan Joint Symposium</td>
</tr>
</tbody>
</table>

**Theme: Occupation-based intervention**

<table>
<thead>
<tr>
<th>Time</th>
<th>Activities</th>
<th>Speaker</th>
<th>Moderator</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:00-09:30</td>
<td>Development of Management Tool for Daily Life Performance</td>
<td>Ryuji Kobayashi</td>
<td>Pro. Chien-Te Wu</td>
</tr>
<tr>
<td>09:30-10:00</td>
<td>The Development and Effect of a Lifestyle Modification Program for Community-dwelling Taiwanese Older Adults</td>
<td>Chang-Chih Robin Kuo</td>
<td></td>
</tr>
</tbody>
</table>
**Theme: Occupation-Based Intervention**

**Title:** Development of Management Tool for Daily Life Performance

**Speaker 1:** Mr. Ryuji Kobayashi

**Abstract:** The Management Tool for Daily Life Performance (MTDLP) was developed by the Japanese Association of Occupational Therapists with the assistance of a subsidy from the Health and Welfare Bureau for the Elderly, Ministry of Health, Labour and Welfare. It allows for easy understanding of the forms of occupational therapy. The MTDLP creates an image of the subject over 24 hours/365 days and comprises various types of questionnaires (such as the daily life performance interview questionnaire, the wish and interests checklist, the MTDLP questionnaire, and the daily life performance transfer questionnaire) designed to focus on the action plan for daily life performance that an individual wishes to perform. The process of MTDLP includes: ① interview with subjects for desired daily life performance, ② daily life performance assessment, ③ daily life performance improvement plan, ④ intervention, ⑤ re-assessment/review, and ⑥ discharge/transfer.

**Title:** The Development and Effect of a Lifestyle Modification Program for Community-dwelling Taiwanese Older Adults

**Speaker 2:** Pro. Chang-Chih Robin Kuo

**Abstract:** Older adults often experience a variety of degeneration, such as physical and mental health, cognition, subjective well-being, and function…etc.; even so, many of them still show a relatively successful aging model without experiencing rapid degradation of various functions and loss of health. One of the major factors, as demonstrated in research, is the “activity patterns”. In order to make Taiwanese elderly understand the importance of the activities arranged in their daily living, and to learn how to choose, orchestrate, and execute a more health-promoted and satisfying lifestyle, I developed a “Lifestyle Modification Program” using the concept of "Lifestyle Redesign" published by Dr. Florence Clark and her fellow scholars in the University of Southern California. The participants in this program are intervened as a group once and two hours per week, 24 weeks in total. In this symposium, I will introduce the interventional strategies and modules of the program. In addition, I will also elaborate the effect, including the results of a quantitative investigation and a qualitative exploration.

**Theme: The Application of Assistive Technology**
Title: The Role of Occupational Therapy in Developing of Assistive Products (Care Robots) in Japan

Speaker 1: Mr. Shinichi Watanabe

Abstract: The number of elderly persons aged 65 years or older will increase by approximate 7.09 million in 15 years from 2010 to 2025 in Japan. The population aging rate (the percentage of elderly persons in total population) will increase from 23% to 30%. Accordingly, the number of nursing caregivers required will also increase from 1.7 million to approximately 2.5 million from 2012 to 2025. As a result, the shortage of nursing caregivers at nursing sites will be an imminent issue. As one solution thereof, the government (Ministry of Economy, Trade and Industry and Ministry of Health, Labour and Welfare) has been promoting the development and introduction of robotic nursing equipment since 2013. This will contribute to the independence of the elderly as well as to the reduction of burden on caregivers. Here, in this symposium, we will introduce the current status of development of assistive products at the Yokohama Rehabilitation Center to which I belong, the role of occupational therapist in development of nursing care robots implemented by the Japanese government, the introduction of nursing care robots to facilities, etc.

Title: Recent Advances of Motor Imagery-Based Brain-Computer Interfaces in Neurorehabilitation and Mental Prosthesis

Speaker 2: Pro. Yi-Hung Liu

Abstract: Motor imagery-based brain-computer interface (BCI) has been considered a novel technology that enables individuals with severe motor disabilities to control devices or communicate with others by means of cortical activities induced by motor imagery. Many motor imagery BCIs have been successfully applied to able-bodied subjects. However, the patients with amyotrophic lateral sclerosis (ALS) who have really benefited from the BCI technologies are still relatively few. One possible reason for this limited success is the neurodegeneration of the motor cortex, leading to the impairment in the ability to modulate the sensorimotor rhythms (SMRs) during motor imagery. Also, the electroencephalography (EEG) signals have a very poor signal-to-noise ratio due to the volume conduction effect inside the scalp. Therefore, the mission of designing a high-accuracy motor imagery BCI for patients with ALS has proven to be very challenging. In this talk, recent advances of motor imagery BCI for ALS patients will be reviewed. Then, I will show a real motor imagery BCI system based on the combination of EEG fractal dimension and a machine learning-based EEG channel selection algorithm. This BCI system, recently developed by the Neural Engineering and Smart Systems Lab at National Taipei University of Technology (Taipei Tech), has been successfully conducted on five late-stage ALS patients (ALSFRS-R score < 20) recruited from Taiwan Motor Neuron Disease Association. Through the use of this BCI-based mental prosthesis, the ALS patients can answer “yes” or “no” in 3 seconds by imagining hand/foot movements, and have achieved an average classification accuracy of 90% in a motor imagery task using only one EEG recording site.
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For "Taiwan-Japan Occupational Therapy Joint Symposium Only", the rate for the joint symposium is TWD 1,000.

Step 4. Make the Registration

For APOTS 2017 full conference participants, the rate for the joint symposium is TWD 500. Please note that you must register either the "main conference" to enjoy the discount rate for the joint symposium.
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If you need any further information or assistance, please feel free to contact the APOTS 2017 Secretariat. We appreciate your cooperation and look forward to meeting you soon in Taoyuan, TAIWAN.