

# List of gSIC-AT World 2017 Teams

| No.               | Project Title   | Affiliation   | Country   |
|-------------------|---|---|-----------|
| <b>Design</b>     |   |   |           |
| DS1-1             | Integrated training staircase and parallel bars system  | Singapore Institute of Technology   | Singapore |
| DS1-2             | Fallessflops  | Department of Rehabilitation Sciences, The Hong Kong Polytechnic University   | Hong Kong |
| DS1-3             | Duo seat  | Chulalongkorn University  | Thailand  |
| DS1-4             | Device to ease scaling operation on smartphone or tablet by mouth stick for quadriplegia                | Graduate School of Arts & Design, Kobe Design University  | Japan     |
| DS1-5             | Sit and slip: ease your dressing  | Chulalongkorn University  | Thailand  |
| DS1-6             | Universal muscle strengthening and rehabilitation device for the elderly and post-stroke patients       | Engineering Cluster, Singapore Institute of Technology  | Singapore |
| DS2-1             | Roller-cloth  | Rehabilitation Science, The Hong Kong Polytechnic University  | Hong Kong |
| DS2-2             | Liberty of wheel  | Department of Product and Interior Design, Kobe Design University   | Japan     |
| DS2-3             | Handy crutch  | Industrial Engineering, University of Sarjanawiyata Tamansiswa  | Indonesia |
| DS2-4             | Time for tales (An interactive toy for visually impaired children)                                      | Chulalongkorn University  | Thailand  |
| DS2-5             | Ely walking stick (Elderly walking stick)   | Mechanical Engineering, Institute of Technology Education   | Singapore |
| DS2-6             | Smart transfer  | Mechanical Engineering, Institute of Technology Education   | Singapore |
| <b>Technology</b> |   |   |           |
| TS1-1             | Development of a skill visualizer based on force sensing  | Graduate School of Science and Engineering, Saitama University  | Japan     |
| TS1-2             | Crosswalk guidance system with image processing and haptic projector for persons with visual impairment | Department of Electronics and Mechanical Engineering, Graduate School of Tokyo Denki University                           | Japan     |
| TS1-3             | Patient individual hand rehabilitation robot (PIH-robot)  | Micro Technology and Medical Device Technology / TUM Department of Mechanical Engineering, Technical University of Munich | Germany   |
| TS1-4             | Ambient detector  | Mahidol Wittayanusorn School  | Thailand  |

| No.   | Project Title  | Affiliation   | Country   |
|-------|--|---|-----------|
| TS1-5 | ACTBRAIN-BCI based 3D neurofeedback system for frontal brain activities improvement  | Mahidol University  | Thailand  |
| TS1-6 | MICOSTION (Mechanical combine of Stroke rehabilitation)  | Industrial Engineering, University of Sarjanawiyata Tamansiswa  | Indonesia |
| TS2-1 | HUVETS: Horoshima University virtual EMG Training System for myoelectric hand control with evaluation of motor skills and fatigue in users | Department of System Cybernetics, Graduate School of Engineering, Hiroshima University  | Japan     |
| TS2-2 | Development of a wearable device to measure posture deviation and posture rehabilitation in Parkinson's disease patients                   | Engineering Cluster, Singapore Institute of Technology  | Singapore |
| TS2-3 | Eye AIM: camera based eye tracking system mobile application   | Mahidol University  | Thailand  |
| TS2-4 | HitAlert   | Chulalongkorn University  | Thailand  |
| TS2-5 | Master-slave soft robotic gloves for hand rehabilitation   | School of Mechanical Engineering, Shanghai Jiao Tong University   | China     |
| TS2-6 | Rehabilitation robot of upper and lower limb based on the wheelchair   | School of Medical Instrument and Food Engineering / Institute of Rehabilitation Engineering & Technology, University of Shanghai for Science and Technology | China     |
| TS3-1 | A tremor compensation device for people with pathological tremor   | School of Mechanical & Aeronautical Engineering, Singapore Polytechnic  | Singapore |
| TS3-2 | An enhanced sensorized block and box test for rehabilitation of gross manual dexterity   | School of Mechanical & Aeronautical Engineering, Singapore Polytechnic  | Singapore |
| TS3-3 | The foot drop physical machine "Foot Work"   | Fang Vocational Education College   | Thailand  |
| TS3-4 | Space  | Institute of Technical Education (ITE College Central), School of Electronics and Info-Comm Technology  | Singapore |
| TS3-5 | Portable device for preliminary diagnosis of scoliosis and shoulder symmetry assessment  | Department of Biomedical Engineering, Faculty of Engineering, University of Malaya  | Malaysia  |
| TS3-6 | Sit-to-stand trainer with assessment of balance ability  | Thammasat University  | Thailand  |
| TS3-7 | Space Walker   | Thammasat University  | Thailand  |
| TS3-8 | Eye Runner   | The Hong Kong Polytechnic University  | Hong Kong |

