

Wednesday, December 13, 2017

WeA1: 09:00-10:20

Consumer Apps – I (Oral Session)

09:00-09:20

Development of Printed Sensors for Taste Sensing

Nag, Anindya; Mukhopadhyay, Subhas; Kosel, Jürgen

WeA1.1

09:20-09:40

Towards Personalisation of Physical Activity E-Coach using Stage-Matched Behavior Change and Motivational Interviewing Strategies

Pratiwi, Puspa S; Tjondronegoro, Dian

WeA1.2

09:40-10:00

A Comparative Study of Wearable Ultraviolet Radiometers

Banerjee, Shayak; Hoch, Eli G.; Kaplan, Peter D.; Dumont, Emmanuel L. P.

WeA1.3

10:00-10:20

A Wearable Device for Monitoring Patients during PAP Therapy

Gardner, Mark; Randhawa, Sharmil; Malouf, Gordon; Reynolds, Karen J.

WeA1.4

WeA2: 09:00-10:20

Engineering – I (Oral Session)

09:00-09:20

Fundamental Analysis of Relationships between Hearing and Cognition in Maternal Brain Function

Kotani, Hiroko; Sugai, Masako; Kuramoto, Kasumi; Matsuno, Maka; Kato, Misa; Nakagawa, Hidenori

WeA2.1

09:20-09:40

Basic Study of Measuring Temperature Distributions with Robot Arm System using Ultrasound Images

Saito, Takahiro; Matsumura, Ryo; Kato, Kazuo; Takahashi, Kenji

WeA2.2

09:40-10:00

Window-Size Impact on Detection Rate of Wearable Sensor-Based Fall Detection using Supervised Machine-Learning

Putra, I Putu Edy Suardiyana; Vesilo, Rein

WeA2.3

10:00-10:20

A Software Application Framework for Developing Immersive Virtual Reality Experiences in Health Domain

Wang, Yifan; Ijaz, Kiran; Calvo, Rafael A.

WeA2.4

WeP1: 16:00-17:20

LSC General – I (Oral Session)

16:00-16:20

Modelling of Multilayer Biological Medium under Molecular Communication Paradigm

Al-Zubi, Muneer; Mohan, Ananda Sanagavarapu

WeP1.1

16:20-16:40

Toward Fabric-Based EEG Access Technologies: Seamless Knit Electrodes for a Portable Brain-Computer Interface

Fleury, Amanda; Alizadeh, Milad; Stefan, Gabriel; Chau, Tom

WeP1.2

16:40-17:00

Artificial Neural Networks Model Design of Lorenz Chaotic System for EEG Pattern Recognition and Prediction

Zhang, Lei

WeP1.3

17:00-17:20

Vision Training; Comparing a Novel Virtual Reality Game of Snakes with a Conventional Clinical Therapy

Boon, Mei Ying; Asper, Lisa; Niao, Amelia J.; Ryan, Malcolm

WeP1.4

WeP2: 16:00-17:20

Engineering – II (Oral Session)

16:00-16:20

A Pulmonary Deformation Registration Framework for Biplane X-Ray and CT using Sparse Motion Composition

Wang, Tao; Xie, Hongzhi; Zhang, Shuyang; Chen, Dong; Gu, Lixu

WeP2.1

16:20-16:40

Optofluidic Platform to Investigate Cell Community Behaviour in Microenvironments

Choudhury, Rudra Vaswata Roy; Prabhakar, Anil; Laxman, Sunil

WeP2.2

16:40-17:00

Automatic Mimicry Detection in Medical Consultations

Wu, Kaihang; Liu, Chunfeng; Taylor, Silas; Atkins, Paul W.B.; Calvo, Rafael A.

WeP2.3

17:00-17:20

WeP2.4

Physical Activity Enjoyment on an Immersive VR Exergaming Platform

Ijaz, Kiran; Wang, Yifan; Ahmadpour, Naseem; Calvo, Rafael A.

Pos1: 10:20-11:00 and 15:30-16:00

Poster Session I (Poster Session)

10:20-11:00 and 15:30-16:00

Hand Gestures Recognition using Electromyography for Bilateral Upper Limb Rehabilitation

Aguiar, Lucas F.; Bó, Antônio P. L.

Pos1.1

10:20-11:00 and 15:30-16:00

Basic Study of 3-D Non-Invasive Temperature Measurement of Ultrasound Guided HIFU System

Miura, Eitaro; Iseki, Yuya; Shindo, Yasuhiro; Kato, Kazuo; Takeuchi, Akira

Pos1.2

10:20-11:00 and 15:30-16:00

A Study of Controlling Ultrasound Irradiation Area and Focal Length by Changing HIFU Transducer

Ichishima, Yasuhito; Shindo, Yasuhiro; Kato, Kazuo; Takeuchi, Akira

Pos1.3

10:20-11:00 and 15:30-16:00

Preliminary Study Investigating Influence of Anti-Depressant Medication on Diurnal Physical Activity Patterns

Kokubo, Kumiko; Tanaka, Tsunehiko; Iwasa, Kazunori; Sawa, Kosuke; Kadotani, Hiroshi; Komori, Masashi

Pos1.4

10:20-11:00 and 15:30-16:00

Visualizing Abnormalities in Chest Radiographs through Salient Network Activations in Deep Learning

Sivaramakrishnan, R; Antani, Sameer K.; Xue, Zhiyun; Candemir, Sema; Jaeger, Stefan; Thoma, George R.

Pos1.5

10:20-11:00 and 15:30-16:00

An Electrocardiogram Device with a Stretchable Skin Patch for Physiological Measurement

Jang, Won Ick; Lee, Bong Kuk; Ryu, Jin Hwa; Baek, In-Bok; Byun, Sangwon; Yu, Han Young; Kim, Seunghwan

Pos1.6

10:20-11:00 and 15:30-16:00

Study of Cognitive Flexibility at Different Stress Levels and with Background Music

Nisar, Humaira; Hong, Sia Jia

Pos1.7

10:20-11:00 and 15:30-16:00

A Method for Preserving Privacy during Audio Recordings by Filtering Speech

Liaqat, Daniyal; Nemat, Ebrahim; Rahman, Mahbubur; Kuang, Jilong

Pos1.8

10:20-11:00 and 15:30-16:00

Generic Sensor Framework Enabling Personalized Healthcare

Beckmann, Sven; Lahmer, Stefanie; Markgraf, Moritz; Meindl, Oliver; Rauscher, Julia; Regal, Christian; Gimpel, Henner; Bauer, Bernhard

Pos1.9

10:20-11:00 and 15:30-16:00

Development of pH Electrode for Gastroesophageal Reflux Disease Diagnosis

Kim, Eung Bo; Kang, Young Hwan; Cho, Sung Hwan; Kim, Sung Il; Joung, Yeun-Ho

Pos1.10

10:20-11:00 and 15:30-16:00

Wearable Sensor based System for Estimating Knee Adduction Moment during Walking

Liu, Wei; Smith, Amos; McQuade, Kevin; Hollis, Marcus

Pos1.11

10:20-11:00 and 15:30-16:00

Improved Cell Segmentation by Solving the Specification Uncertainty of the Second Bi-Gaussian Component in Intensity Probability Distribution

Wang, Xiaoying; Cheng, Eva; Burnett, Ian S.

Pos1.12

10:20-11:00 and 15:30-16:00

Designing a Secure Architecture for m-Health Applications

Alibasa, Muhammad J.; Santos, Marlon R.; Glozier, Nick; Harvey, Samuel B.; Calvo, Rafael A.

Pos1.13

10:20-11:00 and 15:30-16:00

Timing of Changes in the Entropy of the Electroretinogram with Glaucoma

Sarossy, Marc; Aliahmad, Behzad; Kumar, Dinesh K.

Pos1.14

10:20-11:00 and 15:30-16:00

Gain Readjustment Function to Reduce Measurement Errors in Long-Term HRV Monitoring with a Wearable Telemeter

Shoji, Kento; Yamakawa, Toshitaka; Fujiwara, Koichi; Kano, Manabu; Miyajima, Miho; Sakata, Tadashi; Ueda, Yuichi

Pos1.15

10:20-11:00 and 15:30-16:00

EEG Analysis of Effective Connectivity based on Graph Theory during a Multimedia Learning Task

Chai, Meei Tyng; Saad, Mohamad Naufal Mohamad; Kamel, Nidal; Malik, Aamir Saeed

Pos1.16

10:20-11:00 and 15:30-16:00 Pos1.17
Fast and Wide-Field Photoacoustic Microscopy using a Waterproofing MEMS Scanner and Linear Stages
Kim, Jin Young; Baik, Jin Woo; Jeon, Seungwan; Kim, Jongbeom; Kim, Chulhong

10:20-11:00 and 15:30-16:00 Pos1.18
Gait Authentication using 3-Axis Accelerometer : Regardless of the Direction of Gait and Position of the Sensor
Lee, Seung Jae; Lee, Jong Sil; Park, Jin Sick; Kim, Sun Il; Kim, In Young

Thursday, December 14, 2017

ThA1: 09:00-10:20
Consumer Apps – II (Oral Session)

09:00-09:20 ThA1.1
From Information to Reflection – Design Strategies for Personal Informatics
Ahmadpour, Naseem; Cochrane, Karen Anne

09:20-09:40 ThA1.2
A Metabolic Equivalents Estimation Algorithm using Triaxial Accelerometer and Adaptive Sampling for Wearable Devices
Nakanishi, Motofumi; Izumi, Shintaro; Tsukahara, Mio; Kawaguchi, Hiroshi; Yoshimoto, Masahiko

09:40-10:00 ThA1.3
Automatic Classification of Physical Exercises from Wearable Sensors using Small Dataset from Non-Laboratory Settings
Chowdhury, Alok Kumar; Farseev, Aleksandr; Chakraborty, Prithwi Raj; Tjondronegoro, Dian; Chandran, Vinod

10:00-10:20 ThA1.4
A Wearable Technology to Negotiate Surface Discontinuities for the Blind and Low Vision
Leong, Kuan Yew; Egerton, Simon; Chan, Carina K. Y.

ThA2: 09:00-10:20
Engineering – III (Oral Session)

09:00-09:20 ThA2.1
Locomotion Mode Classification using Force Myography
Godiyal, Anoop Kant; Pandit, Srinivas; Vimal, Amit Kumar; Singh, U; Anand, Sneha; Joshi, Deepak

09:20-09:40 ThA2.2
Orthopaedic Implant Micromotion Sensing using an Eddy Current Sensor
Khokle, Rajas; Esselle, Karu; Heimlich, Michael; Bokor, Desmond

09:40-10:00 ThA2.3
Graph Representation for Content-Based fMRI Activation Map Retrieval
De Herrera, Alba García Seco; Long, L. Rodney; Antani, Sameer

ThA3: 09:00-10:20
Biosensors – I (Oral Session)

09:00-09:20 ThA3.1
Use of Heart Rate Variability Infographics in Identification of Depression Status Complementing the Patient Health Questionnaire-9
Maleki, Suzan; Marzbanrad, Faezeh; Warner, Paul; Jelinek, Herbert F.

09:20-09:40 ThA3.2
On the Function and Robustness of Skin-Electrode Interfaces for High-Density Electromyography: Towards Ubiquitous Integration with Robotics Devices
Wiedemann, Lukas G.; McDaid, Andrew J.

09:40-10:00 ThA3.3
Blood Pressure Estimation Based on Pulse Transit Time with LANDMARC
Yang, Wang; Liu, Zhiwen

10:00-10:20 ThA3.4
Cross Recurrence Quantification Analysis of Mild Cognitive Impairment EEG under Working Memory Condition
Timothy, Leena T.; Krishna, Bindu M.; Nair, Usha

ThP1: 16:00-17:20
LSC General – II (Oral Session)

16:00-16:20 ThP1.1
A Near-Infrared Interactance Model for the Estimation of Infant Body Composition
Huvanandana, Jacqueline; Jones, Peter; Jeffery, Heather E.; Carberry, Angela E.; Norris, Shane; McEwan, Alistair L.

16:20-16:40		ThP1.2
Initial Mobility Behaviours of People with Visual Impairment in a Virtual Environment using a Mixed Methods Design		
Knopf, Natasha A.; Boon, Mei-Ying; Suaning, Gregg J.; Zapf, Marc-Patrick H.; Grigg, John		
16:40-17:00		ThP1.3
Control of Cell Fate and Excitability at the Neural Electrode Interface: Genetic Reprogramming and Optical Induction		
Winter, Bailey; Setien, Monica B.; Salatino, Joseph W.; Blanke, Nathan; Thompson, Cort H.; Smith, Kylie R.; Khan, Wasif A.; Li, Wen; Suhr, Steven T.; Purcell, Erin K.		
17:00-17:20		ThP1.4
Fructose Uptake-Based Rapid Detection of Breast Cancer		
Fedie, Joseph; Kannan, Srinivas; Begoyan, Vagarshak; Xia, Shuai; Shaikh, Suhel; Tanasova, Marina; Rao, Smitha		

ThP2: 16:00-17:20
Engineering – IV (Oral Session)

16:00-16:20		ThP2.1
Smartphone-Based Continuous Mobility Monitoring of Parkinson's Disease Patients Reveals Impacts of Ambulatory Bout Length on Gait Features		
Cheng, Wei-Yi; Lipsmeier, Florian; Scotland, Alf; Creagh, Andrew; Kilchenmann, Timothy; Jin, Liping; Schjodt-Eriksen, Jens; Wolf, Detlef; Zhang-Schaerer, Yan-Ping; Garcia, Ignacio Fernandez; Siebourg-Polster, Juliane; Soto, Jay; Verselis, Lynne; Martin-Facklam, Meret; Boess, Frank; Koller, Martin; Grundman, Michael; Monsch, Andreas; Postuma, Ron; Ghosh, Anirvan; Kremer, Thomas; Taylor, Kirsten I.; Czech, Christian; Gossens, Christian; Lindemann, Michael		
16:20-16:40		ThP2.2
Simplified Standing Function and Sensory Evaluation System for Fall Prevention		
Sakata, Mami; Shima, Keisuke; Shimatani, Koji; Izumi, Hiroyuki; Nagara, Tomoyuki		
16:40-17:00		ThP2.3
Identification of Electrical Impedance Tomography as Simulation System Emulating the Electroreceptive System in Aquatic Animals		
Cibis, Tobias; Preikschat, Sophie; Minh, Duc Nguyen; Jones, Peter; Eskofier, Bjoern M.; McEwan, Alistair		
17:00-17:20		ThP2.4
Prediction of Core Temperature Decrease Induced by Neck Cooling in Wheelchair Athletes with Spinal Cord Injury using the Pierce Two-Node Model and Parameter Search		
Takizawa, Kenta; Suzurikawa, Jun; Higuchi, Yukiharu; Ming, Huang; Tamura, Toshiyo; Kurabayashi, Daisuke; Inoue, Takenobu; Ogata, Toru; Takashima, Atsushi		

ThP3: 16:00-17:20

16:00-16:20		ThP3.1
I Don't Know: Double Strategies based Active Learning for Mammographic Mass Classification		
Zhang, Jingyang; Chen, Dong; Xie, Hongzhi; Zhang, Shuyang; Gu, Lixu		
16:20-16:40		ThP3.2
Prediction of Major Complications Affecting Very Low Birth Weight Infants		
Rinta-Koski, Olli-Pekka; Särkkä, Simo; Hollmén, Jaakko; Leskinen, Markus; Rantakari, Krista; Andersson, Sture		
16:40-17:00		ThP3.3
An Automated and Unobtrusive System for Cough Detection		
Di Perna, Leonardo; Spina, Gabriele; Thackray-Nocera, Susannah; Crooks, Michael G.; Morice, Alyn H.; Soda, Paolo; den Brinker, Albertus C.		
17:00-17:20		ThP3.4
Automatic Discrimination of Attention Levels Estimated by Frontal EEG Activity in Drivers		
Kashihara, Koji		

Pos2: 10:20-11:00 and 15:30-16:00
Poster Session II (Poster Session)

10:20-11:00 and 15:30-16:00		Pos2.1
Personal Recognition using Geometric Features in the Phase Space of Electrocardiogram		
Kim, Do Hyun; Park, Jin Sick; Kim, In Young; Kim, Sun Il; Lee, Jong Shill		
10:20-11:00 and 15:30-16:00		Pos2.2
Estimation of Non-Contact Smartphone Video-Based Vital Sign Monitoring using Filtering and Standard Color Conversion Techniques		
Qayyum, Abdul; Malik, Aamir Saeed; Shuaibu, Aliyu Nuhu; Nasir, Nadeem		
10:20-11:00 and 15:30-16:00		Pos2.3
Virtual Reality Experience as a Stress Recovery Solution in Workplace		
Ahmaniemi, Teemu; Lindholm, Harri; Muller, Kiti; Taipalus, Tapio		

10:20-11:00 and 15:30-16:00		Pos2.4
Automatic Segmentation and Classification of Cardiac Cycles using Deep Learning and a Wireless Electronic Stethoscope Ghaemmaghami, Houman; Hussain, Nayyar; Tran, Khoa; Carey, Aiden; Hussain, Shamile; Syed, Farhan; Sinskey, Anthony J.; O'hashi, Kevin; Sperling, John		
10:20-11:00 and 15:30-16:00		Pos2.5
Automatic Selection Method of Optimal Lead for R-R Interval Measurement from Multiple Leads Electrocardiogram Sakai, Shun; Shoji, Kento; Yamakawa, Toshitaka; Sakata, Tadashi; Ueda, Yuichi		
10:20-11:00 and 15:30-16:00		Pos2.6
Comparative Evaluation of Senior Portal Developed through Senior UI/UX Guideline Kim, Woo Seop; Shin, Young Seok; Shin, I Su; Kim, Ku Ho; Jung, Duk Young		
10:20-11:00 and 15:30-16:00		Pos2.7
An EMG-Based Prosthetic Hand Training System using a Class Partial Kullback-Leibler Information Tomizawa, Tai; Shibasaki, Taro; Chin, Takaaki; Tsuji, Toshio		
10:20-11:00 and 15:30-16:00		Pos2.8
A Handheld Spectral Domain OCT with Dermatoscope Lee, Yuan-Chin; Chiang, Hung-Chih; Huang, Chun-Chieh; Chen, Shuen-Chen; Wang, Chy-Lin; Cheng, Chih-Ming; Chang, Chi-Shen; Chang, Cheng-Yi; Chang, Ting-Wei; Chang, Chir-Weei		
10:20-11:00 and 15:30-16:00		Pos2.9
Image Processing Approach to Baseline Drift Removal from Electrocardiogram Signals Petrovic, Miljan B.; Petrovic, Branislav D.		
10:20-11:00 and 15:30-16:00		Pos2.10
Fabrication of Dual Nanohole-Nanopore Biosensors Raza, Muhammad Usman; Ma, Liang-Chieh; Ijaz, Muhammad Hammad; Peri, Sai Santosh Sasank; Alexandrakis, George; Iqbal, Samir M.		
10:20-11:00 and 15:30-16:00		Pos2.11
Characteristics of Event-Related Potentials and Hemodynamics Evoked by Attentional Behavior Mikami, Kanako; Oura, Kunihiko		
10:20-11:00 and 15:30-16:00		Pos2.12
Using Deep Learning to Derive Tidal Volume from a Photoplethmograph Prinable, Joseph; Jones, Peter W.; Thamrin, Cindy; McEwan, Alistair		
10:20-11:00 and 15:30-16:00		Pos2.13
Barriers in Acceptance of Ambient Assisted Living Technologies among Older Australians Maan, Chetna; Gunawardana, Upul		
10:20-11:00 and 15:30-16:00		Pos2.14
Energy Autonomy Analysis of Single-Channel EEG Recording Systems Onet, Raul; Rusu, Ana		
10:20-11:00 and 15:30-16:00		Pos2.15
CRISP-TDM0 for Standardized Knowledge Discovery from Physiological Data Streams: Retinopathy of Prematurity and Blood Oxygen Saturation Case Study Fernando, K.E.Shiron; McGregor, Carolyn; James, Andrew G.		
10:20-11:00 and 15:30-16:00		Pos2.16
The Relation between Sleep Quality and Diurnal Cognition Nochino, Teruaki; Ohno, Yuko; Okada, Shima		
10:20-11:00 and 15:30-16:00		Pos2.17
Using Commercially Available Inertial Sensors on the Wrist to Detect Bowling Speeds and Counts for Fast Bowlers Playing Cricket Soomro, Najeebullah; Tao, Jianhua; Kumaravel, Yogesh; Sawdagar, Tausif; Bhosle, Hrushikesh; Pathak, Shyam; Khan, Farhan		
10:20-11:00 and 15:30-16:00		Pos2.18
Using Gold Nanoparticles to Design Optical Sensors for Continuous Neurotransmitter Measurements: Preliminary Results Niyonambaza, Shimwe Dominique; Boisselier, Élodie; Miled, Amine; Boukadoum, Mounir		

Friday, December 15, 2017

FrA1: 09:00-10:20

Consumer Apps – III (Oral Session)

09:00-09:20

Towards Non-Laboratory Prediction of Relative Physical Activity Intensities from Multimodal Wearable Sensor Data

Chowdhury, Alok; Tjondronegoro, Dian; Zhang, Jinglan; Pratiwi, Puspa Setia; Trost, Stewart G.

FrA1.1

09:20-09:40

Design of Simple Three-Dimensional Musculoskeletal Model for Wearable Sensor System, and Optimization Method for Link Joint Position using Finite Element Analysis

Akimoto, Haruma; Tsuchiya, Yoshio; Imamura, Yumeko; Kusaka, Takashi; Tanaka, Takayuki

FrA1.2

09:40-10:00

Designing a Wearable MMG-Based Mobile App for Gait Rehab

Plewa, Katherine; Silverman, Matthew; Orlandi, Silvia; Chau, Tom; Thaut, Michael

FrA1.3

FrA2: 09:00-10:20

Engineering – V (Oral Session)

09:00-09:20

A Validation Test of using Shoulder Joint Moment in Evaluation of Load in Wheelchair Propulsion

Kobayashi, Daisuke; Watanabe, Takashi; Tyler, Nick; Suzuki, Tatsuto

FrA2.1

09:20-09:40

Automated Partial Premature Infant Pain Profile Scoring using Big Data Analytics

Naik, Tanvi; McGregor, Carolyn; James, Andrew

FrA2.2

09:40-10:00

Cost Effective Electro – Resistive Band based Myo Activated Prosthetic Upper Limb for Amputees in the Developing World

Ulloa G., Diego Felipe; Sreenivasan, Neethu; Bifulco, Paolo; Cesarelli, Mario; Gargiulo, Gaetano; Gunawardana, Upul

FrA2.3

10:00-10:20

Segmentation of Overlapping Cells Obtained from Pap Smear Test

Nisar, Humaira; Wai, Lim Yin; Hong, Loh Siu

FrA2.4

FrA3: 09:00-10:20

Biosensors – II (Oral Session)

09:00-09:20

Outlier Removal in Facial Surface Electromyography through Hampel Filtering Technique

Bhowmik, Susmit; Jelfs, Beth; Arjunan, Sridhar P.; Kumar, Dinesh K.

FrA3.1

09:20-09:40

A Novel Fuzzy Logic Inspired Edge Detection Technique for Analysis of Malaria Infected Microscopic Thin Blood Images

Bias, Stephen; Reni, Saumya Kareem; Kale, Izzet

FrA3.2

09:40-10:00

Recognition of Human Motion Exercises using Skeleton Data and SVM for Rehabilitative Purposes

Vox, Jan Paul; Wallhoff, Frank

FrA3.3

FrP1: 16:00-17:20

LSC General – III (Oral Session)

16:00-16:20

Identification of Druggable Genome in Staphylococcus Aureus Multidrug Resistant Strain

Batool, Maria; Choi, Sangdun

FrP1.1

16:20-16:40

Crowd-Sourced Generation of Annotated Video Datasets: A Zebrafish Larvae Dataset for Video Segmentation and Tracking Evaluation

Wang, Xiaoying; Cheng, Eva; Burnett, Ian S.; Huang, Yushi; Wlodkowic, Donald

FrP1.2

16:40-17:00

The Impact of Gender, Medical History and Vital Status on Emergency Visits and Hospital Admissions:**A Remote Patient Monitoring Case Study**

Inibhunu, Catherine; Schauer, Adrian; Redwood, Olwen; Clifford, Patrick; McGregor, Carolyn

FrP1.3

17:00-17:20

Predicting Hospital Admissions and Emergency Room Visits using Remote Home Monitoring Data

Inibhunu, Catherine; Schauer, Adrian; Redwood, Olwen; Clifford, Patrick; McGregor, Carolyn

FrP1.4

FrP2: 16:00-17:20
Engineering – VI (Oral Session)

- 16:00-16:20 FrP2.1
Classification and Quantitative Estimation of Cognitive Stress from In-Game Keystroke Analysis using EEG and GSR
Das, Deepan; Bhattacharjee, Tanuka; Datta, Shreyasi; Choudhury, Anirban Dutta; Das, Pratyusha; Pal, Arpan
- 16:20-16:40 FrP2.2
Towards Transfers in Paraplegia Assisted by Electrical Stimulation and Inertial System
Fonseca, Lucas; Lopes, Ana Claudia; Ochoa-Diaz, Claudia; Coste, Christine Azevedo; Fachin-Martins, Emerson; Bó, Antônio
- 16:40-17:00 FrP2.3
Big Data Analytics for Enhanced Clinical Decision Support Systems during Spaceflight
Prysyazhnyuk, Anastasiia; Baevsky, Roman; Berseneva, Azaliya; Chernikova, Anna; Luchitskaya, Elena; Rusanov, Vasily; McGregor, Carolyn
- 17:00-17:20 FrP2.4
Dietary Prediction for Patients with Chronic Kidney Disease (CKD) by Considering Blood Potassium Level using Machine Learning Algorithms
Wickramasinghe, Male Pathirana; Nimanthika Madhubhashini; Perera, Dulani Maheshika; Kahandawaarachchi, Chathurangika

FrP3: 16:00-17:20
Rehabilitation (Oral Session)

- 16:00-16:20 FrP3.1
Prosthetic Hand with a Linkage Finger Mechanism for Power Grasping Applications
Herath, H. M. C. M.; Gopura, R. A. R. C.; Lalitharatne, Thilina
- 16:20-16:40 FrP3.2
Contactless Motion Analysis System using a Kinect and Musculoskeletal Model
Hirano, Yuya; Kushida, Daisuke; Matsumoto, Hiromi
- 16:40-17:00 FrP3.3
Quest Time with Daring the Dog – An Exergame for Children with Cerebral Palsy
Mighell, Dylan; Ahmadpour, Naseem
- 17:00-17:20 FrP3.4
Somatosensory Cortex Activation during Electrical Stimulation of Projected Finger Map on the Stump Skin of Forearm Amputee
Liu, Xiaodong; Hao, Manzhao; Cao, Chunyan; Niu, Chuanxin; Lan, Ning