

#	Authors	Title	Track
<b>December 13 -- Wednesday -- WeA1 9:00-10:20 (4 papers @20 min)</b>		<b>Consumer Apps -1</b>	
2	Anindya Nag, Subhas Mukhopadhyay and Jürgen Kosel	Development of Printed Sensors for Taste Sensing	Consumer Apps
29	Puspa S Pratiwi and Dian Tjondronegoro	Towards Personalisation of Physical Activity E-Coach using Stage-matched Behavior Change and Motivational Interviewing Strategies	Consumer Apps
45	Shayak Banerjee, Eli Hoch, Peter Kaplan and Emmanuel Dumont	A Comparative Study of Wearable Ultraviolet Radiometers	Consumer Apps
48	Mark Gardner, Sharmil Randhawa, Gordon Malouf and Karen Reynolds	A wearable device for monitoring patients during PAP therapy	Consumer Apps
<b>December 13 -- Wednesday -- WeA2 9:00-10:40 (4 papers @20 min)</b>		<b>Engineering - 1</b>	
9	Hiroko Kotani, Kasumi Kuramoto, Maka Matsuno, Misa Kato, Masako Sugai and Hidenori Nakagawa	Fundamental Analysis of Relationships between Hearing and Cognition in Maternal Brain Function	Engineering
18	Takahiro Saito, Ryo Matsumura, Kazuo Kato and Kenji Takahashi	Basic Study of Measuring Temperature Distributions with Robot Arm System Using Ultrasound Images	Engineering
21	I Putu Edy Suardiyana Putra and Rein Vesilo	Window-size impact on detection rate of wearable sensor-based fall detection using supervised machine-learning	Engineering
24	Yifan Wang, Kiran Ijaz and Rafael A. Calvo	A Software Application Framework for Developing Immersive Virtual Reality Experiences in health domain	Engineering
<b>December 13 -- Wednesday -- WeP1 16:00-17:20 (4 papers @20 min)</b>		<b>LSC General - 1</b>	
35	Muneer Al-Zubi and Ananda Sanagavarapu Mohan	Modelling of Multilayer Biological Medium under Molecular Communication Paradigm	LSC 2017
39	Amanda Fleury and Tom Chau	Toward fabric-based EEG access technologies: Seamless knit electrodes for a portable brain-computer interface	LSC 2017
44	Lei Zhang	Artificial Neural Networks Model Design of Lorenz Chaotic System for EEG Pattern Recognition and Prediction	LSC 2017
60	Mei Ying Boon, Lisa Asper, Amelia J. Niao and Malcolm Ryan	Vision training; comparing a novel virtual reality game of Snakes with a conventional clinical therapy	LSC 2017
<b>December 13 -- Wednesday -- WeP2 16:00-17:20 (4 papers @20 min)</b>		<b>Engineering - 2</b>	
25	Wang Tao, Xie Hongzhi, Zhang Shuyang, Chen Dong and Gu Lixu	A Pulmonary Deformation Registration Framework for Biplane X-ray and CT using Sparse Motion Composition	Engineering
38	Rudra Vaswata Roy Choudhury, Anil Prabhakar and Sunil Laxman	Optofluidic platform to investigate cell community behaviour in microenvironments	Engineering
41	Kaihang Wu, Chunfeng Liu, Silas Taylor, Paul W.B. Atkins and Rafael A. Calvo	Automatic Mimicry Detection in Medical Consultations	Engineering
52	Kiran Ijaz, Yifan Wang, Naseem Ahmadpour and Rafael A. Calvo	Physical Activity Enjoyment on an Immersive VR Exergaming Platform	Engineering

	<b>December 14 -- Thursday -- ThA1 9:00-10:20 (4 papers @20 min)</b>	<b>Consumer Apps -2</b>	
67	Naseem Ahmadpour and Karen Anne Cochrane	From information to reflection– Design strategies for personal informatics	Consumer Apps
73	Motofumi Nakanishi, Shintaro Izumi, Mio Tsukahara, Hiroshi Kawaguchi and Masahiko Yoshimoto	A METABOLIC EQUIVALENTS ESTIMATION ALGORITHM USING TRIAXIAL ACCELEROMETER AND ADAPTIVE SAMPLING FOR WEARABLE DEVICES	Consumer Apps
74	Alok Kumar Chowdhury, Aleksandr Farseev, Prithwi Raj Chakraborty, Dian Tjondronegoro and Vinod Chandran	Automatic Classification of Physical Exercises from Wearable Sensors using Small Dataset from Non-Laboratory Settings	Consumer Apps
79	Kuan Yew Leong, Simon Egerton and Carina Chan	A Wearable Technology to Negotiate Surface Discontinuities for the Blind and Low Vision	Consumer Apps
	<b>December 14 -- Thursday -- ThA2 9:00-10:20 (4 papers @20 min)</b>	<b>Engineering - 3</b>	
64	Dohyun Kim, Jinsick Park, Inyoung Kim, Sunil Kim and Jongshill Lee	Personal recognition using geometric features in the phase space of electrocardiogram	Engineering
66	Anoop Kant Godiyal, Srinivas Pandit, Amit Kumar Vimal, U Singh, Sneh Anand and Deepak Joshi	Locomotion Mode Classification using Force Myography	Engineering
91	Rajas Khokle, Karu Esselle, Michael Heimlich and Desmond Bokor	Orthopaedic Implant Micromotion Sensing Using An Eddy Current Sensor	Engineering
92	Alba García Seco De Herrera, Rodney Long and Sameer Antani	Graph Representation for Content-based fMRI Activation Map Retrieval	Engineering
	<b>December 14 -- Thursday -- ThA3 9:00-10:20 (4 papers @20 min)</b>	<b>Biosensors - 1</b>	
7	Suzan Maleki, Faezeh Marzbanrad, Paul Warner and Herbert F. Jelinek	Use of Heart Rate Variability Infographics in Identification of Depression Status Complementing the Patient Health Questionnaire-9	Biosensors
32	Lukas Wiedemann and Andrew McDaid	On the function and robustness of skin-electrode interfaces for high-density electromyography: Towards ubiquitous integration with robotics devices	Biosensors
77	Wang Yang and Liu Zhiwen	Blood Pressure Estimation Based on Pulse Transit Time with LANDMARC	Biosensors
82	Leena T. Timothy, Bindu M. Krishna and Usha Nair	Cross Recurrence Quantification Analysis of Mild Cognitive Impairment EEG under Working Memory Condition	Biosensors
	<b>December 14 -- Thursday -- ThP1 16:00-17:20 (4 papers @20 min)</b>	<b>LSC General - 2</b>	
72	Jacqueline Huvanandana, Peter Jones, Heather Jeffery, Angela Carberry, Shane Norris and Alistair McEwan	A near-infrared interactance model for the estimation of infant body composition	LSC 2017
76	Jaspal Singh and R K Sharma	Resource Constrained Wearable Device for Unobtrusive Estimation of Sleep Stages using Cardio-respiratory Data	LSC 2017
94	Natasha Knopf, Mei-Ying Boon, Gregg Suaning, Marc-Patrick Zapf and John Grigg	Initial mobility behaviours of people with visual impairment in a virtual environment using a mixed methods design	LSC 2017
98	Bailey Winter, Monica Setien, Joseph Salatino, Nathan Blanke, Cort Thompson, Kylie Smith, Wasif Khan, Wen Li, Steven Suhr and Erin Purcell	Control of Cell Fate and Excitability at the Neural Electrode Interface: Genetic Reprogramming and Optical Induction	LSC 2017

	<b>December 14 -- Thursday -- ThP2 16:00-17:20 (4 papers @20 min)</b>	<b>Engineering - 4</b>	
93	Wei-Yi Cheng, Florian Lipsmeier, Alf Scotland, Andrew Creagh, Timothy Kilchenmann, Liping Jin, Jens Schjodt-Eriksen, Detlef Wolf, Yan-Ping Zhang-Schaerer, Ignacio Fernandez Garcia, Juliane Siebourg-Polster, Jay Soto, Lynne Verselis, Meret Martin-Facklam, Frank Boess, Martin Koller, Michael Grundman, Andreas Monsch, Ron Postuma, Anirvan Ghosh, Thomas Kremer, Kirsten I. Taylor, Christian Czech, Christian Gossens and Michael Lindemann	Smartphone-Based Continuous Mobility Monitoring of Parkinsons Disease Patients Reveals Impacts of Ambulatory Bout Length on Gait Features	Engineering
95	Mami Sakata, Keisuke Shima, Koji Shimatani, Hiroyuki Izumi and Tomoyuki Nagara	Simplified Standing Function and Sensory Evaluation System For Fall Prevention	Engineering
100	Tobias Cibis, Sophie Preikschat, Duc Nguyen Minh, Peter Jones, Bjoern M. Eskofier and Alistair McEwan	Identification of Electrical Impedance Tomography as Simulation System Emulating the Electroreceptive System in Aquatic Animals	Engineering
103	Kenta Takizawa, Jun Suzurikawa, Yukiharu Higuchi, Huang Ming, Toshiyo Tamura, Daisuke Kurabayashi, Takenobu Inoue, Toru Ogata and Atsushi Takashima	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	Engineering
	<b>December 14 -- Thursday -- ThP3 16:00-17:20 (4 papers @20 min)</b>	<b>Computing</b>	
13	Jingyang Zhang, Hongzhi Xie, Shuyang Zhang, Lixu Gu and Chen Dong	I don't know: Double strategies based active learning for mammographic mass classification	Computing
34	Olli-Pekka Rinta-Koski, Simo Särkkä, Jaakko Hollmén, Markus Leskinen, Krista Rantakari and Sture Andersson	Prediction of major complications affecting very low birth weight infants	Computing
42	Leonardo Di Perna, Gabriele Spina, Paolo Soda, Susannah Thackray-Nocera, Michael G. Crooks, Alyn H. Morice and Albertus C. den Brinker	An automated and unobtrusive system for cough detection	Computing
99	Koji Kashihara	Automatic Discrimination of Attention Levels Estimated by Frontal EEG Activity in Drivers	Computing
	<b>December 15 -- Friday -- FrA1 9:00-10:20 (4 papers @20 min)</b>	<b>Consumer Apps -3</b>	
115	Alok Chowdhury, Dian Tjondronegoro, Jinglan Zhang, Puspa Setia Pratiwi and Stewart G. Trost	Towards Non-Laboratory Prediction of Relative Physical Activity Intensities from Multimodal Wearable Sensor Data	Consumer Apps
117	Haruma Akimoto, Yoshio Tsuchiya, Yumeko Imamura, Takashi Kusaka and Takayuki Tanaka	Design of simple three-dimensional musculoskeletal model for wearable sensor system, and optimization method for link joint position using finite element analysis	Consumer Apps
123	Katherine Plewa, Matthew Silverman, Silvia Orlandi and Tom Chau	Designing a Wearable MMG-based Mobile App for Gait Rehab	Consumer Apps
129	Joseph Fedie, Srinivas Kannan, Vagarshak Begoyan, Shuai Xia, Suhel Shaikh, Marina Tanasova and Smitha Rao	Fructose Uptake-based Rapid Detection of Breast Cancer	LSC 2017
	<b>December 15 -- Friday -- FrA2 9:00-10:20 (4 papers @20 min)</b>	<b>Engineering - 5</b>	
107	Daisuke Kobayashi, Takashi Watanabe, Nick Tyler and Tatsuto Suzuki	A Validation Test of Using Shoulder Joint Moment in Evaluation of Load in Wheelchair Propulsion	Engineering
113	Tanvi Naik, Dr. Carolyn McGregor and Dr. Andrew James	Automated Partial Premature Infant Pain Profile Scoring Using Big Data Analytics	Engineering

12 1	Diego Felipe Ulloa Gutierrez, Neethu Sreenivasan, Upul Gunawardana and Gaetano Gargiulo	Cost effective electro - resistive band based myo activated prosthetic upper limb for amputees in the developing world	Engineering
12 2	Humaira Nisar and Yin Wai Lim	Segmentation of Overlapping cells obtained from Pap Smear Test	Engineering

	<b>December 15 -- Friday -- FrA3 9:00-10:20 (4 papers @20 min)</b>	<b>Biosensors - 2</b>	
--	--	-----------------------	--

84	Susmit Bhowmik, Prof. Dinesh Kumar, Dr. Beth Jelfs and Dr. Sridhar Arjunan	Outlier Removal in Facial Surface Electromyography through Hampel Filtering Technique	Biosensors
86	Ram Gopal Reddy Lekkala and Srinivas Kuntamalla	Quantification of error between the heartbeat intervals measured from photoplethysmogram and electrocardiogram by synchronization	Biosensors
26	Stephen Bias, Saumya Reni and Izzet Kale	A Novel Fuzzy Logic Inspired Edge Detection Technique for Analysis of Malaria Infected Microscopic Thin Blood Images	Bio-Circuits
12 0	Jan Paul Vox and Frank Wallhoff	Recognition of Human Motion Exercises using Using Skeleton Data and SVM for Rehabilitative Purposes	Rehabilitation

	<b>December 15 -- Friday -- FrP1 16:00-17:20 (4 papers @20 min)</b>	<b>LSC General - 3</b>	
--	---	------------------------	--

11 6	Maria Batool and Sangdun Choi	Identification of Druggable Genome in Staphylococcus aureus Multidrug Resistant Strain	LSC 2017
12 4	Xiaoying Wang, Eva Cheng, Ian Burnett, Yushi Huang and Donald Wlodkovic	Crowdsourced Generation of Annotated Video Datasets: A Zebrafish Larvae Dataset for Video Segmentation and Tracking Evaluation	LSC 2017
12 6	Catherine Inibhunu, Adrian Schauer, Olwen Redwood, Patrick Clifford and Carolyn McGregor	The impact of Gender, Medical History and Vital Status on Emergency Visits and Hospital Admissions: A Remote Patient Monitoring Case Study	LSC 2017
12 7	Catherine Inibhunu, Adrian Schauer, Olwen Redwood, Patrick Clifford and Carolyn McGregor	Predicting Hospital Admissions and Emergency Room Visits using Remote Home Monitoring Data	LSC 2017

	<b>December 15 -- Friday -- FrP2 16:00-17:20 (4 papers @20 min)</b>	<b>Engineering - 6</b>	
--	---	------------------------	--

12 5	Deepan Das, Tanuka Bhattacharjee, Shreyasi Datta, Anirban Dutta Choudhury, Pratyusha Das and Arpan Pal	Classification and Quantitative Estimation of Cognitive Stress from In-Game Keystroke Analysis using EEG and GSR	Engineering
13 0	Lucas Fonseca, Ana Claudia Lopes, Claudia Ochoa-Diaz, Christine Azevedo Coste, Emerson Fachin-Martins and Antônio Bó	Towards Transfers in Paraplegia Assisted by Electrical Stimulation and Inertial System	Engineering
78	Anastasiia Prsyazhnyuk, Roman Baevsky, Azaliya Berseneva, Anna Chernikova, Elena Luchitskaya, Carolyn McGregor and Vasily Rusanov	Big Data Analytics for Enhanced Clinical Decision Support Systems during Spaceflight	Extreme Environments
5	Male Pathiranaage Nimanthika Madhubhashini Wickramasinghe, Dulani Maheshika Perera and Chathurangika Kahandawaarachchi	Dietary Prediction for Patients with Chronic Kidney Disease (CKD) by considering Blood Potassium Level using Machine Learning Algorithms	Forensics

	<b>December 15 -- Friday -- FrP3 16:00-17:20 (4 papers @20 min)</b>	<b>Rehabilitation</b>	
--	---	-----------------------	--

12	H. M. C. M. Herath, R. A. R. C. Gopura and Thilina Lalitharatne	Prosthetic Hand with a Linkage Finger Mechanism for Power Grasping Applications	Rehabilitation
----	---	---	----------------

30	Yuya Hirano, Daisuke Kushida and Hiromi Matsumoto	Contactless Motion Analysis System Using a Kinect and Musculoskeletal Model	Rehabilitation
56	Dylan Mighell and Naseem Ahmadpour	Quest Time with Daring the Dog – an exergame for children with Cerebral Palsy	Rehabilitation
118	Xiaodong Liu, Manzhao Hao, Chunyan Cao, Chuanxin Niu and Ning Lan	Somatosensory Cortex Activation during Electrical Stimulation of Projected Finger Map on the Stump Skin of Forearm Amputee	Rehabilitation