AACATE 2017
Programme

>200 talks on harnessing the power of technology to improve lives.

Dates:
11–15 Sept 2017

@AAATE_net

#AAATE2017

This Congress is organised by AAATE and CATCH. For more information, please visit aaate.net or catch.org.uk
The 2017 AAATE Congress is a 5-day event focusing on all topics relating to Assistive Technology. It will take place in Sheffield from 11th to 15th September 2017. The main Conference occurs on the 13th and 14th and Satellite Events are running on the other three days.

Travel information can be found online: aaate2017.eu

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Satellite Events
Mon 11th Sept

From Sept 10th - 12th you can join the Communication Matters Conference in Leeds (only 1 hour from Sheffield). Discounted tickets for AAATE2017 delegates are available.

This day is not yet finalised. Please check our website for updates, or contact us with your enquiry: info@aaate2017.eu

Peak District

We can help you arrange a trip to the Peak District if you’re arriving early in the Congress week. Please contact us: info@aaate2017.eu
### Satellite Events
#### Tue 12th Sept

Satellite Events are additions to the core Conference at different venues. These sessions are workshop or lecture style with topics related to AT.

Both St. Mary’s Events end at 15.45, in time to attend the AAATE pre-event in the Diamond.

<table>
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<th>Time</th>
<th>St Mary’s</th>
<th>Octagon</th>
<th>Diamond</th>
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<tr>
<td>8.00</td>
<td>Registration</td>
<td>9.00 Registration</td>
<td>Professional Exhibition for practitioners, students and the general public with an interest in Assistive Technology.</td>
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<tr>
<td>8.30 - 10.00</td>
<td>Strategic Aspects of Standardisation and Certification in the Field of eAccessibility &amp; eInclusion - This event focuses on the strategic aspects of the topic, answering questions from management, policy makers and decision makers in administration. It will also present new approaches to address some gaps and insufficiencies identified.</td>
<td>9.15 STUDENT INNOVATION TOURNAMENT Workshop for undergraduate students.</td>
<td>Entry free of charge. (Booking required)</td>
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<tr>
<td>13.00 - 13.45</td>
<td>LUNCH</td>
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The venues St. Mary’s Conference Centre, the Octagon Centre and in the evening at the Diamond Building are all within walking distance (10 - 20 minutes) of each other.
Dementia—Cognitive Impairment

- Comparing Recent Reviews about Touchscreens for Dementia with Lessons Learnt from the Field
- Digital Support for Persons with Cognitive Impairment
- Reconnecting People with Dementia by using the Interactive Instrument CRDL
- Independent Living Functions for the Elderly (IN-LIFE) Supporting Communication in Dementia
- Using Surface Computers to promote the Well-Being of People with Dementia
- Home Testing of a Digital Prompter for People with Dementia
- Mobile Delivery of Health Information for People with Mild Cognitive Impairments
- Interacting with Dementia: The Mario Approach

AT Services

- Introducing an AT Passport: A Key to Managing Transitions Across the Lifespan
- Wireless as Enabler of Innovation in 21st Century Health and Social Care
- Writing Good-Quality Assistive Technology Assessment Reports
- Observing Remote Prescription of AT
- Development of National Guidelines for the Ground Rules to Lending Assistive Technology Devices in Finland
- Access Visits using Video Communication
- Remote Care Technology: A Systematic Overview
- The Need for Information on Standards eAccessibility & eInclusion - Based on the Experience of the EU-Project IN LIFE

Quality Outcomes

- Validation of European Portuguese Version of the Kwazo Instrument
- Effectiveness of Service Dogs for Veterans with PTSD: Preliminary Outcomes
- Measuring AT Usability with the Modified System Usability Scale (SUS)
- CHAT: A Community of Practice on Assistive Technology in Ireland
- Dissemination Strategy of Ambient Assisted Living Project Experience
- Remote Health Care Provision in Care Homes

Tech for Independent Living 1

- Smart Clothing for Falls Protection and Detection: User-centred Co-design and Feasibility Study
- Perceptions and use of Technology to Support Older Adults with Multimorbidity
- Obstacle: a Tool to Assess the Home Environment Designed for All
- ShopComm: Community-Supported Online Shopping for Older Adults
- The Role of Haptics in User Input for People with Motor and Cognitive Impairments
- Inclusive Smartphone Interface Design in Context: Co(Re)designing the PIS

Tech for Independent Living 2

- Human Behavior Drift Detection in a Smart Home Environment
- Evaluation Method for an App Involving Kitchen Activities
- Quantitative Indicators for Behaviour Drift Detection from Home Automation Data
- Electronic Assisted Living Technology: Interim Systematic Review Results – The Evidence for Creative Methodologies
- Exploring the use of Technology for Active Aging and Thriving
- A Study on Evaluations of Living Spaces by Caregivers for Elderly People

Opening: Mark Hawley and Peter Cudd, CATCH, University of Sheffield

Keynote: Paul Timmers, Advisor on Technology, Policy, Economy and Society. Previously Director Digital Society, Trust and Cyber Security at the European Commission
Platform Session 2
Details to be announced

Education & Learning

Autism & Intellectual Disability 1
- The Application of CSCL Scripts to support Teaching and Learning for Children with Intellectual Disabilities
- User Centred Reading Intervention for Individuals with Autism and Intellectual Disability
- Improving the Quality of Life of Persons with Intellectual Disabilities through ICTs
- Risks of Stigmatisation Resulting from Assistive Technologies for People with Autism Spectrum Disorder
- E-inclusion: Social Inclusion of Young Adults with Intellectual Disabilities - a Participatory Design
- Managing Weight: What do People with an Intellectual Disability want from Mobile Technology?
- Assistive Technology Assessment for Children with Intellectual Disabilities and ASD: An Overview

AAC Speech 1
- An Innovative Speech-based User Interface for Smartphones and IoT Solutions to Help People with Speech and Motor Disabilities
- Restoring Speech Following Total Removal of the Larynx
- Cloud-based Speech Technology for Assistive Technology Applications (CloudCAST)
- ISi-Speech: A Digital Training System for Acquired Dysarthria
- Analysis of an Individual’s Language to Improve Efficiency of an AAC System

Innovation

Innovative Technology
- Technology for Early Detection of Depression and Anxiety in Older People
- A User-Centred Approach Exploring the Potential of a Novel EMG Switch for Control of Assistive Technology
- Fuzzy Logic to Determine the Likelihood of Survival for Trauma Injury Patients
- Development of Technology for Assisting Violent Psychiatric Patients
- Embedded Systems and TensorFlow Frameworks as Assistive Technology Solutions
- Providing Sources of Self-Efficacy through Technology Enhanced Post-Stroke Rehabilitation in the Home
- Using Machine Learning to Match Assistive Technology to People with Disabilities

AAC Speech 2
- Non-Visually Performing Analytical Tasks on Statistical Charts
- The Language and Communication Characteristics of Communication Aids – A Systematic Review
- The Hollybank Challenges: AT for People with Profound Disabilities
- Democratisation of AAC Symbol Choices using Technology
- Optimising Service Delivery of AAC AT Devices and Compensating AT for Dyslexia
- Exploring the Perspectives of People who use Alternative and Augmentative Communication Aids (AAC)

Innovative Methods
- Mouthsticks - A Participatory Approach
- Four Models to Guide AT Projects Intending Innovative Technology Development Outcomes
- Conjuring up New Technology – using Magic Objects in Co-ideation with Stroke Survivors
- Process Development for the Design and Manufacturing of Personalizable Mouth Sticks
- Designing for Mild Cognitive Impairment (MCI): A Design Anthropological Perspective
- The Phenomenon of Competing-Values on the use of Technology in Healthcare

LUNCH & EXHIBITION

AT for Children
- “Dyscalculia” Serious Game for Skill Development of Children with Dyscalculia
- “Sliders” Android Game - Improving Logical Skills of People with Disabilities
- Android-based Daily Routine Organizing Application for Elementary School Students Living with ASD
- Designing Out the Play: Accessibility and Playfulness in Inclusive Play
- Interactive Games with an Assistive Robotic System for Hearing-impaired Children

AAC Speech 2
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REFRESHMENTS & EXHIBITION

Platform Session 4
Peter Cudd, President of AAATE
<table>
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<tr>
<th>Time</th>
<th>Session</th>
<th>Topics</th>
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| 9.00 - 10.30| Robotics 1               | - Overview of Robotic Devices for Nursing Care Project  
- Development of Robotic Rollators and Walking Trolleys in Japan  
- An Introduction to the Development of Transfer Assistive Robots in Japan  
- Robots for Elderly Care: their Level of Social Interactions and the Targeted End User  
- Development of a Robotic System for Enhancing Children’s Motivation in Constraint Induced Movement Therapy (CIMT) |
|             | E-Health                 | - Development/Testing of a Monitoring System Assisting MCI Patients: The European Project iNLIfe  
- Embracing Technological Development and Salutogenic Health Promotion in the Provision of Assistive Technologies  
- Adaptive Sampling Technique Using Regression Modelling and Fuzzy Inference System for Network Traffic  
- ICT Services for Life Improvement for the Elderly  
- Augmented Reality (AR) to Support Family Carers: Focus on Visual (Dis) Comfort |
| 10.30 - 11.00| REFRESHMENTS & EXHIBITION|                                                                                                 |
| 11.00 - 12.50| Robotics 2               | - A Robotic Solution for Assisting People with MCI at Home: Preliminary Tests of the ENRICHME System  
- Design of a Behavior of Robot that Attracts the Interest of the Mildly Demented Elderly  
- Exploring the use of a Humanoid Robot to Engage Children with Autism Spectrum Disorder (ASD)  
- Introducing ZORA to Children with Severe Physical Disabilities  
- Evaluation of Dynamic Arm Supports in Real Life Environments - Investigating the Effect of Social Robot Embodiment - Care Robot ZORA in Dutch Nursing Homes; an Evaluation Study |
| 12.50 - 14.00| LUNCH & EXHIBITION       |                                                                                                 |
| 14.00 - 15.30| Robotics 3               | - Standardization of Care and Assistive Products involving Robot Technology  
- Estimation of Injury by Falls for Risk Assessment of Robotic Care Devices  
- Development of a Risk Assessment Assistance Tool for Robotic Care Devices  
- Standardization of Assistive Products with Robotic Technology – from a Perspective of ISO/TC173  
- IntelliTable: Inclusively-designed Furniture with Robotic Capabilities  
- Usability of interfaces JACO Arm Designed with a User-Centred Design Methods |
|             | Apps 1                   | - Applying Game Thinking to Slips, Trips and Falls Prevention  
- A Mobile Game for the Social and Cognitive Well-being of Elderly People in China  
- Customised City Maps in Mobile Applications for Senior Citizens  
- Mobile Recommender Apps with Privacy Management for Accessible and Usable Technologies - The Use of Apps for Health in Persons with Multiple Sclerosis, Parkinson’s Disease and Stroke  
- Barriers and Facilitators - Mobile App Selection Tool (MAST) for Post-secondary Students with Disabilities  
- Involving Users in the Evaluation of Apps for Specific Health Conditions |
|             | Apps & Games             | - Living Lab as an Agile Approach in Developing User-friendly Welfare Technology  
- Accapto, a Generic Design and Development Toolkit for Accessible Mobile Apps  
- Designing Web-Apps for All: How do we include those with Cognitive Disabilities?  
- “Design for Somebody” - Approach for Enabling Mobile Technology Development  
- Recommendations for Age-appropriate Mobile Application Design  
- “Pre-Pair Cards” Android Game |
| 15.30 - 16.00| REFRESHMENTS & EXHIBITION|                                                                                                 |
| 16.00 - 16.50| Mobility                | - Six-and-a-Half-Year Practice of Tactile Map Creation Service  
- Towards Standardised Information Exchange Regarding the Accessibility of Public Transport in Germany  
- Definition of “Total Accessibility” for Public Transport  
- Image Based Location Estimation for Walking out of Visual Impaired Person  
- Effectiveness of Mobility Support for Visually Impaired Person Using Video Call |
| 17.00 - 17.30| Plenary                 | Lord Chris Holmes, Britain’s most successful Paralympic swimmer, entered the House of Lords in 2013 and is Chair of the Global Disability Innovation Hub.  
Closing ceremony of AAATE 2017 |
Education & Learning

ICT Learning & Digital Inclusion 1
- A Self-assessment Framework for Inclusive Schools Supporting Assistive Technology Users
- Digital Skills Development and ICT in Inclusive Education: Experiences from Cyprus Schools
- Web Widgets Barriers for Visually Impaired Users
- Extraction Methodology of Implicit Didactics in Math Schoolbooks for the Blind
- Toward Emotionally Accessible Massive Open Online Courses (MOOCs)
- Auditing the Accessibility of Massive Open Online Courses (MOOCs)

Digital Accessibility & Interaction
- Effects of Optimizing the Scan-Path on Scanning Keyboards with QWERTY-Layout for English Text
- Usability of Optical Mark Reader Sheet as an Answering Tool in Testing
- Use of Scanning Wizard can Enhance Text Entry Rate: Preliminary Results
- Towards a Cognitive Screenreader
- Inclusive Competitive Game Play through Balanced Sensory Feedback
- Comparing Accessibility Auditing Methods for eBooks: Crowdsourced, Functionality-led Versus Web Content Methodologies

ICT Learning & Digital Inclusion 2

Universal Design
- Universal Design as a Transformative Agent in Education for all Learners
- A Self-service Approach to Promote Self-sufficiency, Independence and Inclusion Amongst Disabled Students
- ICT and UD: Preliminary Study for Recommendations to Design Accessible University Courses - Universal Design across the Curriculum: Training for Students and Teachers - Machine Learning Based Evaluation of Reading and Writing Difficulties - Development of Mathematical Skills Developing Game Software - Lessons from Helen Keller: How to Make the Comics Accessible?

Use of Eye Gaze
- Gaze-based Assistive Technology- Use in Everyday Life for Individuals with Impairments
- The Benefits of Gaze-Based Assistive Technology in Daily Activities for Children with Disabilities - Teachers’ Experiences of Hope using Eye Gaze-Controlled Computers
- Parent Perception of Two Eye-gaze Control Technology Systems in Young Children with Cerebral Palsy: Pilot Study
- Participation through Gaze Controlled Computer for Children with Severe Multiple Disabilities
- Gaze-based Assistive Technology for a Toddler with Tetraplegia and without Speech
- Gaze-based Assistive Technology - Usefulness in Clinical Assessments

Accessibility

AT & Sight Loss
- How Accessible is Weibo for People with Visual Impairments?
- DUCK: a DeDUCTive Soft Keyboard for Visually Impaired Users
- Evaluation of Orientation Performance of Attention Patterns for Blind Person
- An Analysis and Proposal of 3D Printing Applications for the Visually Impaired
- Accessibility Analysis of the Eclipse IDE for Users with Visual Impairment

Open Developer Space
- Open DeveloperSpace: an Enabling Infrastructure for Stakeholders to Generate New Access Solutions
- Feed3: A Strategy for a 3-Direction Connection among AT Consumers and Developers
- Using the Assistance on Demand Platform to Set-up a Network of Assistance Services
- Use Model for a User Centred Design in Multidisciplinary teams
- Enabling Accessibility through Model-based User Interface Development
- Stepping Stones for People with Cognitive Disabilities and Low Digital Literacy

Innovation

Education in Care
- Education in Care and Technology; Development and Evaluation of a First Cohort of an International Master Course
- Higher Education beyond Faculties: Interdisciplinary Education in Care and Technology
- Designing Situated Learning Experiences: Interdisciplinary Collaboration for Design Education in Healthcare
- Simulation in Medical School Education
- Roles and Responsibilities of Parents and Therapists in a Kindergarten Treatment Centre
- Adoption and Use of a Mobile System at Home Care

Autism & Intellectual Disability 2
- MotorSense: Using Motion Tracking Technology to Support the Identification and Treatment of Gross-Motor Dysfunction
- Can Automated Facial Expression Analysis Show Differences between Autism and Typical Functioning?
- Assistive Technology for an Inclusive Society for People with Intellectual Disability
- Participation and Autonomy for Users with ABI through Easy Social Media Access
- Assistive Technology for Children with Non-convulsive Epilepsy and their Environment

Ambient Assay & Interaction
- How Accessible is Weibo for People with Visual Impairments?
- DUCK: a DeDUCTive Soft Keyboard for Visually Impaired Users
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- Adoption and Use of a Mobile System at Home Care
A Remote Digital Home Visit: Exploring the Possibilities for Therapists

Therapy home visits are essential but resource-intensive inpatient interventions. An NHS Trust and University collaboration explored the possibility of undertaking these visits remotely using a secure videoconferencing and note-taking prototype and consulted clinicians and members of the public regarding its use.

Developing Assistive Technology Digital Services for Citizens and Experts

Finland's all five University Hospitals joint project is Healthvillage 2.0 which objectives are to develop specialised health care digital services in open access and under authentication for citizens and professionals. Healthvillage information is organized mainly by medical specialties e.g Brain, Heart etc. There is also Rehabilitation section in which Assistive Technology Device Services belongs.

Evaluating and Implementing the Ampcare Effective Swallowing Programme for Treatment of Dysphagia

This presentation will describe how the Ampcare Effective Swallowing Protocol (ESP), a technique which combines electrical stimulation with intensive dysphagia exercises, is being introduced into routine NHS clinical practice and evaluated for delivery feasibility and patient outcomes following NICE guidance.

Change Management as a Success Factor in the Implementation, Scaling Up and Transfer of Digital Health & Social Care Solutions

Demographic change requires regions to deploy on an increasingly large scale, digital health and social care solutions to keep the costs of care sustainable without reducing its quality. Unfortunately, many attempts to develop innovative solutions have shown success at pilot level, but difficulties in the actual deployment stage.

Confirmed speakers:
George Crooks (NHS 24/Scotland's national Telehealth and Telecare organisation), Cees van Berkel (Philips Health Care), Brian Donnelly (CECOPS) John Dinsmore (Trinity College Dublin), Arlene Astell (University of Reading), John Lundgren (Region of Norrbotten, Sweden), Stuart Anderson (University of Edinburgh, UK), Esteban de Manuel Kenney (Kronikgune, Spain), David Prendergast (INTEL, Ireland)

Details about the talks
@St Mary’s Tues 12th Sept

Towards Implementing Digital Tech in Service

8.40 - 9.00 – Cath O'Connor
Florence (FLO) Telehealth Implementation in the Sheffield Early Pulmonary Rehabilitation Service: This comprehensive pragmatic service evaluation aimed to assess the feasibility of FLO telehealth implementation within the Sheffield Early Pulmonary Rehabilitation (EPR) service for people with Chronic Obstructive Pulmonary Disease following an acute exacerbation (AECOPD).

9.00 - 9.20 – Jen Read
A Remote Digital Home Visit? : Exploring the Possibilities for Therapists: Therapy home visits are essential but resource-intensive inpatient interventions. An NHS Trust and University collaboration explored the possibility of undertaking these visits remotely using a secure videoconferencing and note-taking prototype and consulted clinicians and members of the public regarding its use.

9.20 - 9.40 – Anne Kanto-Ronkanen
Developing Assistive Technology Digital Services for Citizens and Experts: Finland’s all five University Hospitals joint project is Healthvillage 2.0 which objectives are to develop specialised health care digital services in open access and under authentication for citizens and professionals. Healthvillage information is organized mainly by medical specialties e.g Brain, Heart etc. There is also Rehabilitation section in which Assistive Technology Device Services belongs.

9.40 - 10.00 – Sue Pownall
Evaluating and Implementing the Ampcare Effective Swallowing Programme for Treatment of Dysphagia: This presentation will describe how the Ampcare Effective Swallowing Protocol (ESP), a technique which combines electrical stimulation with intensive dysphagia exercises, is being introduced into routine NHS clinical practice and evaluated for delivery feasibility and patient outcomes following NICE guidance.

10.00 - 10.30 – Panel Discussion

10:30 - 11:00 BREAK

11.00 - 11.20 – Jessica Hyde
Occupational Therapists using iPads for Cognitive Interventions in an NHS Critical Care Unit: This presentation focusses on a service development project, centred on the use of an iPad, with clients in a critical care unit. Here traditional assessments and interventions are limited and can be restrictive in the early assessment of cognitive deficits.

11.20 - 11.40 – Jo Burke
Factors Influencing the Implementation of Self-Managed Computerised Therapy for People with Aphasia Following Stroke.

11.40 - 12.00 – Suk Wong
Developing an Exoskeleton Service in a NHS Setting: Spinal Injuries Case Study: This case study describes the development of the exoskeleton service using the Ekso GT™ by Ekso Bionics which was introduced as a rehabilitation tool to a NHS spinal cord injury centre in November 2014.

12.00 - 12.20 – Myriam Tellier
Training Medication Management with Technology for People with Dementia: This study aims to develop a systematic intervention that guides clinicians when teaching early-stage Alzheimer disease patients and their family carers how to improve medication management independence by the use of an electronic pill dispenser in a home setting.

12.20 - 12.40 – Kath Broomfield
User Perspectives on the Factors that Influence Voice Output Communication Aid Use: This service evaluation aimed to gather feedback from experienced users of a specific type of voice output communication aid (Lightwriter SL40) in order to better understand the factors that support and inhibit them to use the Lightwriter SL40 to aid their communication.

12.40 - 13.00 – Panel Discussion

13.00 - 13.50 LUNCH

8.30 - 10.00 Co-organised by AAATE and the IN LIFE Consortium
Strategic Aspects of Standardisation and Certification in the Field of eAccessibility & inclusion: Recent surveys reveal how little ‘experts’ in the field of eAccessibility & inclusion know about standards and, therefore, the real application of standards in day-to-day work may become a problem. This event focuses on the strategic aspects of the topic, answering questions from management, policy makers and decision makers in administration. It will also present new approaches to address some gaps and insufficiencies identified.

08:30 - Evert-Jan Hoogerwerf - Welcome
08:35 - Christian Galinski (Infoterm)- Strategic aspects of Standardization
09:00 - Klaus Hoeckner (Accessible Media) Certification in the field of eAccessibility & inclusion
09:25 - Discussion chaired by Klaus Miesenberger (University of Linz) and Dominique Archambault (University of Paris6).
10:00 - Closure
10.00 - 15.45 Organized by AAATE, ProACT, INLIFE, EHTEL, TECH Alliance and more
Details about the tournament & exhibition

@Octagon Centre Tue 12th Sept

09:00 - 18:00 - Great Opportunity for Students

Student Innovation Tournament: The Student Innovation Tournament will be a 'hackathon'-style event at which around 100 students from a range of backgrounds (such as social care, health, engineering) will work in multidisciplinary teams to generate ideas for solutions to real problems set by our community and industrial partners. There will be a broad and diverse range of problems set, but each problem will be one that has the potential to be solved by assistive technology of some form.

Students will not need to have technological expertise (e.g. coding) to participate - the tournament is focused on ideas generation, innovation and creativity towards solutions, rather than the development of solutions themselves. Students will be free to present their ideas in a range of formats such as digital posters, presentation slides or pitches.

The ideas will be judged by a panel of experts, including industrial partners, conference sponsors, assistive technology entrepreneurs, business leaders, University alumni, and research partners.

Students please sign up via the AAATE2017 website: www.aaate2017.eu

Details about the pre-conference talk

@Diamond Tue 12th Sept

16:30 - 18:30 - On Invitation of the AAATE Board

The Assistive Technology Promise for Happy and Sustainable Aging: Myth or Reality? A Global Perspective: This is the third edition of the "Global Challenges in Assistive Technology” meeting held on Tuesday 12th September 2017 between 16.30 and 18.30 in the Diamond Building at the University of Sheffield.

Aging is a global challenge. More people live longer than ever. Notwithstanding the numerous examples of hyper active and brilliant super seniors, many people aren’t, but are fragile and the need for care is rapidly raising, laying a burden on governments and informal care networks. The aim of the meeting is to bring together views from different parts of the world on the role assistive technology can have to support active and healthy aging and living independently as long as possible. Following presentations by 4 speakers from different parts of the world, the audience will have the opportunity to engage in the panel discussion.

When tweeting about the event, please use #AAATE2017
Details about the talks @Diamond
Wed 13th Sept 11.00 - 12.50

A  Session Chair: Gail Mountain, University of Bradford
Dementia - Cognitive Impairment
11.00 - 11.09 – Yvonne Schilkhof, Rotterdam University of Applied Sciences
Comparing Recent Reviews about Touchscreens for Dementia with Lessons Learnt from the Field
11.09 - 11.18 – Maria Andreassen, Linköping University
Digital Support for Persons with Cognitive Impairment
11.18 - 11.36 – Luc de Witte, University of Sheffield (CATCH)
Reconnecting People with Dementia by using the Interactive Instrument CRDL: Dementia is a progressive brain disease with a decline in functioning over time. CRDL (pronounced as Cradle) is an interactive instrument, developed to stimulate communication between users through sound and touch.
11.36 - 11.54 – Sarah Kate Smith, University of Sheffield (CATCH)
Independent Living Functions for the Elderly (IN-LIFE) Supporting Communication in Dementia: A 3 year multidisciplinary, multi-site European project that aims to prolong and support independent living for people with cognitive impairments, through (ICT) services.
11.54 - 12.03 – Alexander Bejan, Furtwangen University (HFU)
Using Surface Table Computers to Promote the Well-Being of People with Dementia
12.03 - 12.12 – Hazel Boyd, Designability
Home Testing of a Digital Prompter for People with Dementia
12.12 - 12.30 – John Arnott, University of Dundee
Mobile Delivery of Health Information for People with Mild Cognitive Impairment: The design of a smartphone application (app) for promoting healthy lifestyle choices has been investigated for people with mild cognitive impairment.

L  Session Chair: Suvodeep Mazumdar, University of Sheffield
AT Services
11.00 - 11.09 – Siobhan Long, Enable Ireland
Introducing an AT Passport: A Key to Managing Transitions across the Lifespan
11.09 - 11.18 – Eddie Ball, University of Sheffield
Wireless as Enabler of Innovation in 21st Century Health and Social Care
11.18 - 11.36 – Renzo Andrich, IRCCS Fondazione Don Carlo Gnocchi
Writing Good-quality Assistive Technology Assessment Reports: The study reported in this paper developed criteria and guidelines for writing up a good-quality AT Assessment Report - a document which is often required to activate an assistive technology intervention for an individual client.
11.36 - 11.45 – Peter Cudd, University of Sheffield (CATCH)
Observing Remote Prescription of AT
11.45 - 11.54 – Anne Kanto-Ronkanen, Kuopio University Hospital
Development of National Guidelines for the Ground Rules to Lending Assistive Technology Devices in Finland
11.54 - 12.12 – Suvodeep Mazumdar, University of Sheffield (CATCH)
Access Visits using Video Communication: An online video communication system is presented that enables Occupational Therapists (OTs) assess patient homes for assistive technology needs before acute care discharge.
12.12 - 12.30 – Nelson Rocha, University of Aveiro
Remote Care Technology: A Systematic Overview: The present study was based on a systematic review of reviews and meta-analyses and aimed to identify technologies being used to provide home monitoring to support older adults.

H  Session Chairs: Helianthe Kort, Utrecht Ward, Coventry University
Tech for Independent Living 1
11.00 - 11.18 – Katherine Easton, University of Sheffield (CATCH)
Smart Clothing for Falls Protection and Detection: User-centred Co-design and Feasibility Study: The prevalence and impact of hip fractures on the health and wealth of nations is a global problem and source of health inequalities.
11.18 - 11.36 – Emma Murphy, Trinity College Dublin
Perceptions and use of Technology to Support Older Adults with Multimorbidity: Digital technologies hold great potential to improve and advance home based integrated care for older people living with multiple chronic health conditions.
11.36 - 11.54 – Ryanne Lemmens, PXL University College
Obstacle: A Tool to Assess the Home Environment Designed for All: Caused by the ageing population, the need for care will increase greatly amongst people aged >65 years and elderly prefer to live as long as possible independent in their own home.
11.54 - 12.12 – Garreth Tigwell, University of Dundee
ShopComm: Community-Supported Online Shopping for Older Adults: The United Kingdom has an ageing population whose members experience significant life transitions as they grow older, for example, losing mobility due to deteriorating health.
12.12 - 12.30 – Thomas Neumayr, University of Applied Sciences Upper Austria
The Role of Haptics in User Input for People with Motor and Cognitive Impairments: Most input devices, also traditional ones like keyboard and mouse involve at least a certain amount of haptic

Please note: only Conference presenters are named in this programme.
Autism & Intellectual Disability 1

11.00 - 11.18 – Bryan Boyle, Trinity College Dublin, ASSISTID
The Application of CSCL Scripts to Support Teaching and Learning for Children with Intellectual Disabilities: This paper describes the application of collaboration scripts to guide social interaction behaviours of children with intellectual disabilities.

11.18 - 11.36 – Anita Yakkundi, University of Dundee, ASSISTID
User Centred Reading Intervention for Individuals with Autism and Intellectual Disability: Individuals with autism and intellectual disability (ID) have complex learning needs and often have difficulty in acquiring reading comprehension skills using conventional teaching tools.

11.36 - 11.54 – Alberto Ferreras Remesal, Instituto de Biomecánica de Valencia
Improving the Quality of Life of Persons with Intellectual Disabilities through ICTs: Removing barriers to accessing Information and Communication Technologies (ICTs) by Persons with Intellectual Disabilities (IDPs) is crucial.

11.54 - 12.03 – Fiachra O’Brochtaín, Dublin City University, ASSISTID
Risks of Stigmatisation Resulting from Assistive Technologies for People with Autism Spectrum Disorder
12.03 - 12.12 - Julia Louw, National University of Ireland, Galway, ASSISTID
E-inclusion: Social Inclusion for Young Adults with Intellectual Disabilities - A Participatory Design

Innovative Technology

11.00 - 11.18 – Massimiliano Malavasi, AIAS Bologna onlus
An Innovative Speech-based User Interface for Smartphones and IoT Solutions to Help People with Speech and Motor Disabilities: A better use of the increasing functional capabilities of home automation systems and Internet of Things (IoT) devices.

11.18 - 11.36 – Jose A.Gonzalez, University of Sheffield
Restoring Speech Following Total Removal of the Larynx: By speech articulator movement and training a transformation to audio we can restore the power of speech to someone who has lost their larynx.

11.36 - 11.54 – Stuart Cunningham, University of Sheffield, CATCH
Cloud-based Speech Technology for Assistive Technology Applications (CloudCAST): The CloudCAST platform provides a series of speech recognition services that can be integrated into assistive technology applications.

11.54 - 12.12 – Davide Mulfari, University of Pisa
Embedded Systems and TensorFlow Frameworks as Assistive Technology Solutions: In the field of deep learning, this paper presents the design of a wearable computer vision system for visually impaired users.

AAC Speech 1

11.00 - 11.18 – Massimiliano Malavasi, AIAS Bologna onlus
An Innovative Speech-based User Interface for Smartphones and IoT Solutions to Help People with Speech and Motor Disabilities: A better use of the increasing functional capabilities of home automation systems and Internet of Things (IoT) devices.

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E-inclusion: Social Inclusion for Young Adults with Intellectual Disabilities - A Participatory Design

Discussion

12.30 - 12.50 – Discussion

12.30 - 12.48 – Trish MacKeogh, Dublin Institute of Technology & Queens University Belfast, ASSISTID
Assistive Technology Assessment for Children with Intellectual Disabilities and ASD: An Overview: Technologies provide opportunities for greater and more flexible access but it is important to ensure the technology meets their needs.

12.30 - 12.48 – Abe Rafi, The Arc of the United States
Using Machine Learning to Match Assistive Technology to People with Disabilities: This paper describes the initial results of work to create a recommender system to match technology products to people with I/DD by applying machine learning to a large volume of data about people with I/DD.
Details about the talks @Diamond
Wed 13th Sept 14.00 - 15.30

Age Well
14.00 - 14.09 – Jeff Jutai, University of Ottawa and and Jerome Bickenbach, University of Lucerne
Introduction AGE WELL

14.09 - 14.18 – Michael Wilson, McMaster University
Citizen and Stakeholder Perspectives about Approaches to Enhance Equitable Access to Assistive Technologies for Older Adults

14.18 - 14.36 – Claudine Auger, Université de Montréal and Centre for Interdisciplinary Research in Rehabilitation
Cross-cultural Adaptation of a Decision Support System for AT Selection: Older adults may benefit from decision support systems for the selection of assistive technologies.

14.36 - 14.45 – Hajer Chalghoumi, AGE-WELL WP8 ETHICS-TECH
Ethical Issues Related to IT Adoption by Aging Persons with Cognitive Impairments

14.45 - 14.54 – Joan Cahill, Trinity College Dublin
Lived Experience, Stakeholder Evaluation and the Participatory Design of Assisted Living Technology

14.54 - 15.03 – Sandra Dittenberger, New Design University Privatuniversität GesmbH
ICT Inexperienced Elderlies: what would Attract Elderlies to use Items of Technology?

15.03 - 15.30 – Panel Discussion

Quality Outcomes
14.00 - 14.09 – Nelson Rocha, University of Aveiro
Validation of European Portuguese Version of the Kwazo Instrument

14.09 - 14.18 – Claude Vincent, Université Laval
Effectiveness of Service Dogs for Veterans with PTSD: Preliminary Outcomes

14.18 - 14.36 – Emma Friesen, Teva Pharmaceuticals
Measuring AT Usability with the Modified System Usability Scale (SUS):
The modified System Usability Scale (SUS) is a widely-used generic measure of product usability.

14.36 - 14.45 – Pierce Richardson, Disability Federation of Ireland
CHAT: A Community of Practice on Assistive Technology in Ireland

14.45 - 14.54 – Eoghan McConalogue, Dublin City University
Dissemination Strategy of Ambient Assisted Living Project Experience

14.54 - 15.03 – Louise Newbould, University of Sheffield (CATCH)
Remote Health Care Provision in Care Homes

15.03 - 15.30 – Discussion

Tech for Independent Living 2
14.00 - 14.09 – Andrea Masciadri, Politecnico di Milano - Polo territoriale di Como
Human Behavior Drift Detection in a Smart Home Environment

14.09 - 14.18 – Laura Burzagli, IFAC CNR
Evaluation Method for an App involving Kitchen Activities

14.18 - 14.36 – Andrea Masciadri, Teva Pharmaceuticals
Quantitative Indicators for Behaviour Drift Detection from Home Automation Data: Smart Homes diffusion provides an opportunity to implement elderly monitoring, extending seniors’ independence and avoiding unnecessary assistance costs.

14.36 - 14.54 – Nikki Holliday, Centre for Technology Enabled Health Research
Electronic Assisted Living Technology: Interim Systematic Review Results – The Evidence for Creative Methodologies: Despite reported benefits of creative methodologies for the design and development of electronic Assisted Living Technologies (eALT)

14.54 - 15.12 – Tone Oderud, SINTEF
Exploring the use of Technology for Active Aging and Thriving: The study explores how older adults with limited digital experience become users of tablet computers (iPad) with Internet access, and how the tablet computers become part of their daily life facilitating active aging and thriving.

15.12 - 15.21 – Yuya Tamashima, University of Tokyo
A Study on Evaluations of Living Spaces by Caregivers for Elderly People

15.21 - 15.30 – Discussion

Please note: only Conference presenters are named in this programme.
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<tr>
<th>Session Chair: Cecilia Sik Lanyi, University of Pannonia</th>
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<tbody>
<tr>
<td><strong>“Dyscalculia” Serious Game for Skill Development of Children with Dyscalculia</strong></td>
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<td>14.09 - 14.18 – Tibor Guzsvinecz, University of Pannonia</td>
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<td><strong>“Sliders” Android Game – Improving Logical Skills of People with Disabilities</strong></td>
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<tr>
<td><strong>Non-visually Performing Analytical Tasks on Statistical Charts:</strong> This article proposes a natural language-based approach to accessibility of charts. Formal underpinnings are used to semantically annotate the constituent elements of a vector graphic to support accessing and modifying the content.</td>
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<td>14.00 - 14.18 – Klaus Miesenberger, IIS Linz</td>
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<td><strong>The Language and Communication Characteristics of Communication Aids – A Systematic Review</strong></td>
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<td>14.18 - 14.27 – Simon Judge, Barnsley Assistive Technology Team, CATCH</td>
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<td><strong>The Hollybank Challenges: AT for People with Profound Disabilities</strong></td>
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<td>14.27 - 14.36 – Kim Ludi, Hollybank Trust</td>
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<th>Session Chair: Joseph Lane, University at Buffalo (SUNY)</th>
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<tr>
<td><strong>Four Models to Guide AT Projects Intending Innovative Technology Development Outcomes:</strong> Generating innovations – including Assistive Technology products or services – requires expertise in project planning and management.</td>
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<td>14.18 - 14.36 – Joseph Lane, University at Buffalo (SUNY)</td>
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<td><strong>Democratisation of AAC Symbol Choices using Technology:</strong> The use of an online voting system has been developed to enable democratic choices of newly designed symbols to support speech, language and literacy skills in a localisation situation.</td>
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<td>14.36 - 14.54 – E.A. Draffan, University of Southampton</td>
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<td><strong>Exploring the Perspectives of People who use Alternative and Augmentative Communication Aids (AAC)</strong></td>
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<tr>
<td><strong>Conjuring up New Technology – using Magic Objects in Co-ideation with Stroke Survivors:</strong> Ideation means to generate ideas, and when involving non-designers in these activities they need to be informed about the scope of the possibilities without limiting their imagination.</td>
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<td>14.54 - 15.12 – Kirsten Rassmus-Gröhn, Lund University</td>
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<td><strong>Designing for Mild Cognitive Impairment (MCI): A Design Anthropological Perspective</strong></td>
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<td>15.21 - 15.30 – Discussion</td>
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Details about the talks @Diamond
Thu 14th Sept 9.00 - 10.30

Session Chairs: Tony Prescott, University of Sheffield and Takenobu Inoue

Robotics 1
9.00 - 9.18 – Hirohisa Hirukawa, National Institute of Advanced Industrial Science and Technology
Overview of Robotic Devices for Nursing Care Project: METI/AMED are conducting a project on the development and deployment of robotic devices for nursing care to enhance the autonomy of elderly persons and assist care givers.

9.18 - 9.36 – Osamu Matsumoto, National Institute of Advanced Industrial Science and Technology
Development of Robotic Rollators and Walking Trolleys in Japan: In Japan, several types of robotic rollators and walking trolleys have been developed with financial assistance from the Japanese government.

9.36 - 9.54 – Isamu Kajitani, National Institute of Advanced Industrial Science and Technology
An Introduction to the Development of Transfer Assistive Robots in Japan: This paper briefly introduces the development of transfer assistive robots in terms of development support.

9.54 - 10.12 – Sandra Bedaf, Zuyd University of Applied Sciences
Robots for Elderly Care: their Level of Social Interactions and the Targeted End User: Robots for older adults have a lot of potential. In order to create an overview of the developments in this area a systematic review of robots for older adults living independently was conducted.

10.12 - 10.30 – Pavlina Psychoulis, European University Cyprus
Development of a Robotic System for Enhancing Children’s Motivation in Constraint Induced Movement Therapy (CIPT): This paper presents a novel robotic system, which aims to enhance children’s motivation through the gamification of the CIPT process.

E& A
Session Chair: Evert-Jan Hoogwerf, INLIFE Consortium

E-Health
9.00 - 9.09 – Evangelos Kaimakamis, CERTH-INAB Development/Testing of a Monitoring System Assisting MCI Patients: The European Project INLIFE

9.09 - 9.18 – Kyle Mulholland, Satakunta University of Applied Science
Embracing Technological Development and Salutogenic Health Promotion in the Provision of Assistive Technologies

9.18 - 9.36 – Reza Saatchi, Sheffield Hallam University
Adaptive Sampling Technique Using Regression Modelling and Fuzzy Inference System for Network Traffic: Electronic-health relies on extensive computer networks to facilitate access and to communicate various types of information in the form of data packets.

9.36- 9.54 – Pascal Garel, European Hospital and Healthcare Federation
ICT Services for Life Improvement for the Elderly: Integrated care ICT Platform to support patients, care-givers and health/social professionals in the care of dementia and Parkinson’s disease with training, empowerment, sensor-based data analysis and cooperation services

9.54 - 10.12 – Marten Fortuin, Utrecht University of Applied Sciences
Augmented Reality (AR) to Support Family Carers: Focus on Visual (Dis) Comfort: This presentation discusses various (new) factors for visual comfort which may be encountered in eHealth applications such as Augmented Reality and can be used to advise users or for future research purposes.

10.12 - 10.30 – Discussion

Navigation
9.00 - 9.18 – Tetsuya Watanabe, Niigata University
Six-and-a-Half-Year Practice of Tactile Map Creation Service: To disseminate the use of tactile maps, a tactile map creation service has been offered according to the demands of blind people and their helpers.

9.18 - 9.36 – Helmut Heck, Forschungsinstitut Technologie und Behinderung (FTB)
Towards Standardised Information Exchange Regarding the Accessibility of Public Transport in Germany: In the innovation project DELFІ plus a concept for standardised information on accessibility of public transport facilities in Germany.

9.36- 9.54 – Christian Bühler, TU Dortmund University, FTB der ESV
Definition of “Total Accessibility” for Public Transport: The paper describes the approach and results of a German study as an example of strategies in German legislation relating to accessibility in public transport. Based on user-friendly interfaces.

9.54 - 10.12 – Kauho Kamasaka, University of Tsukuba
Image Based Location Estimation for Walking out of Visual Impaired Person: A new and intelligent walking navigation system could be helpful for visually impaired people so that they do not need helpers or guide dogs on going out.

10.12 - 10.21 – Takao Yanagihara, Kindai University
Effectiveness of Mobility Support for Visually Impaired Person Using Video Call

10.21 - 10.30 – Discussion

Please note: only Conference presenters are named in this programme.


**Autism & Intellectual Disability 2**

9.00 - 9.18 – Inmaculada Arnedillo-Sanchez, Trinity College Dublin
**MotorSense: Using Motion Tracking Technology to Support the Identification and Treatment of Gross-Motor Dysfunction:** MotorSense is a motion detection and tracking technology.

9.18 - 9.36 – Miklos Gyor, ELTE University, Budapest, Hungary
**Can Automated Facial Expression Analysis Show Differences between Autism and Typical Functioning?** Exploratory analyses of emotional expressions using a commercially available facial expression recognition software are reported, from the context of a serious game for screening purposes.

9.36- 9.54 – John Owuor, Trinity College Dublin, ASSISTID
**Assistive Technology for an Inclusive Society for People with Intellectual Disability:** People with intellectual disability (ID), are some of the most stigmatized and marginalized social groups.

9.54 - 10.12 – Susanne Dirks, Technical University Dortmund
**Participation and Autonomy for Users with ABI trough Easy Social Media Access:** The Mediata app is a mobile application providing easy access to internet and social media for persons with acquired brain injury.

10.12 - 10.21 – Bart Jacobs, UC Leuven Limburg
**Assistive Technology for Children with Non-convulsive Epilepsy and their Environment**

10.21 - 10.30 – Discussion

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**AT & Sight Loss**

9.00 - 9.18 – Weiqin Chen-Sanchez, Oslo and Akershus University College of Applied Sciences
**How Accessible is Weibo for People with Visual Impairments?** Weibo is one of the most popular Chinese social media services. The literature has shown that social media have potential to empower people with disabilities.

9.18 - 9.36 – Raynal Mathieu, IRIT - University of Toulouse
**DUCK: a DeDUCtive Soft Keyboard for Visually Impaired Users:** Touch screens rapidly and significantly replace physical keyboards on mobile devices. Hence, text entry is now dependent on software (or virtual) keyboards that are widely used by sighted people.

9.36- 9.54 – Shochiro Fujisawa, Tokushima University
**Evaluation of Orientation Performance of Attention Patterns for Blind Person:** Tactile walking surface indicators (TWSIs) are installed on footpath to support independent travel for the blind.

9.54 - 10.12 – Kazunori Minatani, National Center for University Entrance Examinations
**An Analysis and Proposal of 3D Printing Applications for the Visually Impaired:** The full 3D printing process is divided into discrete 3 steps. With user-centric approach, the study confirmed that people with visual impairments could use CAD to carry out 3D printing tasks.

10.12 - 10.30 – Vanessa Petrausch, Karlsruhe Institute of Technology
**Accessibility Analysis of the Eclipse IDE for Users with Visual Impairment:** Integrated Development Environments support software developers during their daily work. However, complex graphical interfaces and various functions disable an accessible development environment.

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**Education in Care**

9.00 - 9.18 – Charles Willems, Zuyd University of Applied Sciences
**Education in Care and Technology:** Development and Evaluation of a First Cohort of an International Master Course: Aiming to gather insights into the current procedure used to coordinate/determine the roles and responsibilities between parents and therapist.

9.18 - 9.36 – Anne-mie Sponselee, Fontys University of Applied Sciences
**Higher Education beyond Faculties: Interdisciplinary Education in Care and Technology:** A Centre of Healthcare and Technology of a Dutch University of Applied Sciences shows how the transitions in the sectors of health care and technology can result in interdisciplinary education.

9.36- 9.45 – Guy Collier, AUT
**Designing Situated Learning Experiences: Interdisciplinary Collaboration for Design Education in Healthcare**

9.45 - 9.54 – Nuno Pombo, Instituto de Telecomunicacoes
**Simulation in Medical School Education**

9.54 - 10.12 – Nadine Spierts, Zuyd University of Applied Sciences
**Roles and Responsibilities of Parents and Therapists in a Kindergarten Treatment Centre:** The aim of the study is 1) to gather insights into the current procedure used to coordinate/determine the roles and responsibilities between parents and therapists.

10.12 - 10.21 – Sini Annika Vasalampi, EU Master Care & Technology/City of Nokia
**Adoption and Use of a Mobile System at Home Care**

10.21 - 10.30 – Discussion
11.00 - 11.18 – Claudia Salatino.
Fondazione Don Carlo Gnocchi ONLUS
A Robotic Solution for Assisting People with MOI at Home: Preliminary Tests of the ENRICHME System: The ENRICHME project is developing an integrated system composed of a robot, sensors and a networking care platform.

11.18 - 11.36 – Natsuki Sakuma,
The University of Tokyo
Design of a Behavior of Robot that Attracts the Interest of the Mildly Demented Elderly: In this study, using the unexpected intervention overturning the interaction amount of the field and the mental model, an interaction of a robot system enables sustained nonverbal communication with the elderly.

11.36 - 11.54 – Lorenzo Desideri,
AIAS Bologna onlus
Exploring the use of a Humanoid Robot to Engage Children with Autism Spectrum Disorder (ASD): We present a study aimed at exploring whether a humanoid robot may improve the effectiveness of educational interventions targeting children with autism.

11.54 - 12.12 – Renee van den Heuvel, Zuyd University of Applied Sciences
Introducing ZORA to Children with Severe Physical Disabilities: The aim of the present study was to explore the potential of a ZORA-robot based intervention in rehabilitation and special education for children with (severe) physical disabilities from the professionals perspective.

12.12 - 12.21 – Cecilia Winberg, Lund University, Department of Health Sciences
The Use of Apps for Health in Persons with Multiple Sclerosis, Parkinson’s Disease and Stroke - Barriers and Facilitators
12.21 - 12.30 – Linda Chmillar, Athabasca University Mobile App Selection Tool (MAST) for Post-secondary Students with Disabilities

12.30 - 12.48 – Lauren Amy Powell,
University of Sheffield
Involving Users in the Evaluation of Apps for Specific Health Conditions: With rapid growth of Internet accessibility over recent years, the way in which we engage with healthcare services and make decisions about our own healthcare has changed.

11.00 - 11.18 – Paul Dewick,
The University of Manchester
Applying Game Thinking to Slips, Trips and Falls Prevention: Gamification is about the way in which ‘game thinking’ can engage participants and change behaviours in real, non-game contexts.

11.18 - 11.36 – Weiqin Chen,
Oslo and Akershus University College of Applied Sciences
A Mobile Game for the Social and Cognitive Well-being of Elderly People in China: China, like many other countries, is facing the challenges of an ageing population. Literature has shown that the lack of social interaction has a negative impact on the elderly.

11.36 - 11.54 – Helmut Heck,
Forschungsinstitut Technologie und Behinderung (FTB)
Customised City Maps in Mobile Applications for Senior Citizens: Map services should be used in mobile applications for senior citizens. Do the commonly used map services meet the needs of elderly people?

11.54 - 12.12 – Reuven Katz, Technion
Attenuating Tremor Using Passive Devices: Limb tremor is treated with either medication or surgery, both of which may have adverse effects. This paper presents two passive devices for tremor attenuation: One for attenuating pronation/supination tremor of the forearm using a dynamic vibration.
**Session Chairs: Katerina Mavrou, European University Cyprus**

**ICT Learning & Digital Inclusion 1**

**11.00 - 11.18 – Evert Jan Hoogerwerf, A1AS Bologna**

A Self-Assessment Framework for Inclusive Schools Supporting Assistive Technology Users: In order to support schools to assess their performance in supporting children with disabilities in their ICT and ICT-AT needs, a self-assessment framework was developed.

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**11.18 - 11.36 – Katerina Mavrou, European University Cyprus**

**Digital Skills Development and ICT in Inclusive Education: Experiences from Cyprus Schools:** This qualitative research has been a pilot implementation of the ENTELS self-assessment framework for schools on digital skills development and Information and Communication Technologies (ICT) in inclusive education, Université Paris 8

Web Widgets Barriers for Visually Impaired Users: Currently, websites are mainly composed of web widgets, dynamic elements and updatable sections - like autosuggest list, carousel, slideshow etc.

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**11.36 - 11.54 – Letícia Seixas Pereira, Université Paris 8**

Extraction Methodology of Implicit Didactics in Math Schoolbooks for the Blind: The implicit didactic information embedded in the theoretical part of math schoolbooks is one of the keys for successful learning mathematics, but mostly reserved for sighted students.

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**11.54 - 12.12 – Klaus Miesenberger, IIS Linz**

**Extraction Methodology of Implicit Didactics in Math Schoolbooks for the Blind:** The implicit didactic information embedded in the theoretical part of math schoolbooks is one of the keys for successful learning mathematics, but mostly reserved for sighted students.

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**12.12 - 12.21 – Francisco Iniesto, The Open University**

**Toward Emotionally Accessible Massive Open Online Courses (MOOCs)**

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**12.30 - 12.48 – Abi James, University of Southampton**

**Comparing Accessibility Auditing Methods for eBooks: Crowdsourced, Functionality-led Versus Web Content Methodologies:** This paper presents a gap analysis between crowdsourced functional accessibility evaluations of ebooks conducted by non-experts.
Details about the talks @Diamond
Thu 14th Sept 14.00 - 15.30

Robots 3

14.00 - 14.18 – Yoji Yamada, Nagoya University
Standardization of Care and Assistive Products involving Robot Technology: An ongoing Japan-wide project for the development and deployment of care and assistive robotic devices.

14.18 - 14.36 – Koji MATSUMOTO, Japan Automobile Research Institute
Estimation of Injury by Falls for Risk Assessment of Robotic Care Devices: In order for manufacturers of robotic devices for nursing care to predict injury in accidents related to their products, risk assessments are carried out according to various standards e.g. ISO 12100.

14.36 - 14.54 – Keiko Homma, National Institute of Advanced Industrial Science and Technology (AIST)
Development of a Risk Assessment Assistance Tool for Robotic Care Devices: Aiming to eliminate a labor shortage caused by the aging of society, many kinds of service robots are under development.

14.54 - 15.12 – Takenobu Inoue, National Rehabilitation Center for Persons with Disabilities
Standardization of Assistive Products with Robotic Technology – from a Perspective of ISO/TC173: ISO/TC173 is a technical committee, in charge of international standardization of assistive products (APs).

Apps & Games

14.00 - 14.18 – Niina Holappa, Prizztech Ltd
Living Lab as an Agile Approach in Developing User-friendly Welfare Technology: This paper discusses living lab as a method of developing user-friendly welfare technology, and presents a qualitative evaluation research of how living lab tested technologies impacted on the life of healthcare customers.

14.18 - 14.27 – Elmar Krainz, FH Joanneum/JK University Linz
Accapto, a Generic Design and Development Toolkit for Accessible Mobile Apps

14.27 - 14.36 – Abi James, University of Southampton
Designing Web-Apps for All: How do we include those with Cognitive Disabilities?

14.36 - 14.54 – Andrew Sirkka, Satakunta University of Applied Sciences
“Design for Somebody” - Approach Enabling Mobile Technology Development: The paper presents case examples of Design for Somebody (DfS) philosophy used both in developing novel technologies and modifying existing mainstream technologies applicable for users with special needs.

14.54 - 15.12 – Alireza Darvishy, Zurich University of Applied Sciences
Recommendations for Age-appropriate Mobile Application Design: This paper presents recommendations for avoiding or eliminating unnecessary barriers to mobile application usage by older generations. It sets out ten areas of age-appropriate application design.

Wheelchair Innovations

14.00 - 14.18 – Tulio Maximo, Loughborough University
Not just the Right to a Wheelchair but the Right Wheelchair – Improving Brazilian Wheelchair Service Delivery: The barriers encountered before and after the implementation of good practice in the delivery of wheelchair provision services in Belo Horizonte city, Brazil.

14.18 - 14.36 – Lele XI, The University of Tokyo
One Dimensional Input Device of Electric Wheelchair for Persons with Severe Duchenne Muscular Dystrophy: Persons with severe Duchenne Muscular Dystrophy (DMD) usually have difficulty in operating electric wheelchairs (EW) using standard input device due to the lack of muscular power.

14.36 - 14.45 – Tsutomu Hashizume, Tokyo University
Efficiency and Rolling Resistance in Manual Wheelchair Propulsion

14.45 - 14.54 – Ikuo Yoneda, Nishikyushu University
Advantages of Unstable Manual Wheelchair

14.54 - 15.12 – Fausto Orsi Medola, UNESP - São Paulo State University
Servomotor Assistance in the Improvement of Manual Wheelchair Mobility: This study reports the development of a servo-controlled power-assisted wheelchair, designed to reduce the loads on the upper limbs while maintaining the drivability of a manual chair.

Please note: only Conference presenters are named in this programme.
**ICT Learning & Digital Inclusion 2**

14.00 - 14.09 – James Richardson, Good Things Foundation
A Community-Level Perspective on Digitally and Socially Including Disabled People

14.09 - 14.18 – Emily Redmond, Good Things Foundation
Supporting Disabled People's Independence with Digital Skills in the Community

14.18 - 14.27 – Lars Ballieu Christensen, Sensus ApS
A Self-service Approach to Promote Self-sufficiency, Independence and Inclusion Amongst Disabled Students

14.27 - 14.36 – Silvio Pagliara, GLIC - Italian Network of AT Centers
ICT and UD: Preliminary Study for Recommendations to Design Accessible University Courses

14.36 - 14.45 – Trish MacKeogh, ASSISTID
Universal Design across the Curriculum: Training for Students and Teachers: Providing an inclusive educational setting for children with disabilities is essential if they are to truly benefit from mainstream education. Universal Design (UD) provides a framework to develop our classrooms.

14.45 - 14.54 – Eva Holmqvist, Dart, Sahlgrenska University Hospital
Participation through Gaze-Controlled Computer for Children with Severe Multiple Disabilities

14.54 - 15.03 – Helena Wandin, Swedish National Center for Rett Syndrome and related disorders
Gaze-based Assistive Technology - Usefulness in Clinical Assessments

15.03 - 15.30 – Discussion

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**A11Y**

**Session Chair: Gerald Craddock, Centre for Excellence in Universal Design**

14.00 - 14.18 – Gerald Craddock, Centre for Excellence in Universal Design
Universal Design as a Transformative Agent in Education for All Learners:
Universal Design (UD) offers a "whole systems approach" and has the capacity to transform the educational environment to encompass all learners.

14.18 - 14.27 – Patrik Rytterström, Linköping University
Teachers’ Experiences of Hope using Eye Gaze-Controlled Computers

14.27 - 14.36 – Petra Karlsson, Cerebral Palsy Alliance, The University of Sydney
Parent Perception of Two Eye-gaze Control Technology Systems in Young Children with Cerebral Palsy: Pilot Study

14.36 - 14.45 – Eva Holmqvist, Dart, Sahlgrenska University Hospital
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Gaze-based Assistive Technology - Use in Everyday Life for Individuals with Impairments

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**Use of Eye Gaze**

**Session Chair: Helena Hemmingsson, Linköping University**

14.00 - 14.09 – Rob Gregory
Gaze-based Assistive Technology - Use in Everyday Life for Individuals with Impairments

14.09 - 14.18 – Maria Borgestig, Linköping University
The Benefits of Gaze-Based Assistive Technology in Daily Activities for Children with Disabilities

14.18 - 14.27 – Patrik Rytterström, Linköping University
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**Session Chairs: Emily Redmond and James Richardson, Good Things Foundation**

14.00 - 14.12 – Tibor Guzsvinecz, University of Pannonia
Development of Mathematical Skills

14.00 - 14.09 – Rob Gregory
Gaze-based Assistive Technology - Use in Everyday Life for Individuals with Impairments

14.09 - 14.18 – Maria Borgestig, Linköping University
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**14th AAATE Congress 2017**

**E Learning & Digital Inclusion 2**

14.00 - 14.09 – James Richardson, Good Things Foundation
A Community-Level Perspective on Digitally and Socially Including Disabled People

14.09 - 14.18 – Emily Redmond, Good Things Foundation
Supporting Disabled People's Independence with Digital Skills in the Community

14.18 - 14.36 – Leen Sevens, University of Southampton
Building An Accessible Pictograph Interface for Users With Intellectual Disabilities: Pictograph interface for Pictograph-to-Text translation, which facilitates the construction of written text on social media platforms.

14.36 - 15.03 – Silvio Pagliara, GLIC - Italian Network of AT Centers
ICT and Inclusion: a Proposal for an AT Center Model to Facilitate the Proper Assessment

15.03 - 15.12 – Naotsune Hosono, NPO Niimaru
Co-creation Learning Procedures: Comparing Interactive Language Lessons for Deaf and Hearing Students

15.12 - 15.21 – Stefan Parker, Kompetenznetzwerk KI-I
The WebACS - An Accessible Graphical Editor

15.21 - 15.30 – Discussion

14.18 - 14.27 – Lars Ballieu Christensen, Sensus ApS
A Self-service Approach to Promote Self-sufficiency, Independence and Inclusion Amongst Disabled Students

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14.54 - 15.03 – Mamoru Iwabuchi, The University of Tokyo
Machine Learning Based Evaluation of Reading and Writing Difficulties

15.03 - 15.12 – Tibor Guzsvinecz, University of Pannonia
Development of Mathematical Skills
Developing Game Software

15.12 - 15.30 – Jerome Dupire, CNAM
Lessons from Helen Keller: How to Make the Comics Accessible? This paper addresses the lack of accessibility of the comics for deaf or hard-of-hearing readers. Comics are a major cultural object, used in many different contexts with, as much as different purposes (leisure, education, advertising, etc.).

15.30 - 15.39 – Margaret Kinsella, Institute of Technology, Blanchardstown (ITB)
Case Study: Practitioner’s Perspective on Embedding Universal Design into the Curriculum

15.03 - 15.30 – Discussion
Satellite Events
Tue 12th Sept
Fri 15th Sept

Satellite Events are additions to the core Conference at different venues. These sessions are workshop or lecture style with topics related to AT.

St Mary’s Conference Centre

12/09/17 PAVILION ROOM
The Role of Technology in Social Isolation and Loneliness in Later Life
8.40 - 9.00 – David Clayton, University of Sheffield
Exploring the Loneliness of Older People and their use of New Technologies to Help Mitigate it

9.00 - 9.20 – Dr Chui Man Chau & Ka Chun Ho, University of Sheffield
Keeping in Touch: Use of Social Media among Chinese Older People

9.20 - 9.40 – Dr Marcus Green, Age UK
The Role of Technology in Social Isolation and Loneliness in Later Life

15/09/17 GARDEN ROOM
Evaluating Technology - Supported Complex Health and Social Interventions
11.00 - 11.20 – Katherine Broomfield, Gloucestershire Care Services NHS Trust
Exploring the Perspectives of People who use Aids to Enhance their Communication

11.20 - 11.40 – Shoichiro Fujisawa, Tokushima University
Evaluation of Orientation Performance of Attention Patterns for Blind

11.40 - 12.00 – Hille Maas, Estonian Unemployment Insurance Fund
ICF-based Workability Assessment System using e-Health Services

12.00 - 12.20 – Claudine Auger, Universite de Montreal
Internet-based Intervention for Mobility Assistive Technology Users and Caregivers: Setting Priorities

Don’t miss “Robotics in Care”
Half-day event Friday 15th September
Contact: Professor Luc de Witte for details: aaate2017@sheffield.ac.uk

15/09/17 NAVE
9.00 - 17.00 - Leading UK Research Conference on Assistive Technology
Technology for Independence (T4I) 2017 Conference
Join us this year to discuss issues and innovation in AT related best practice, innovation and service delivery. This is a unique opportunity for AT practitioners and researchers to meet and engage.

Registration is open for delegates and exhibitors. For more information visit: www.t4i2017.org.uk

19.00 - 21.00 CLOSING EVENT
@INOX Dine at the University of Sheffield Students Union

£20 per person (plus VAT) included in T4I registration. If you are not a T4I delegate please book via www.aaate2017.eu.

Registration is now open!
2-days Conference
Registration from 535 €*.
*Standard registration until 01/08/2017. AAATE members and members of Approved Partner organisations get a €50 discount.

1-day Satellite Event
Registration from £176.
Half-day Satellite Event
Registration from £125.


Approved Partners: