



The Connected Health Summer School this year has been designed for early career researchers, stakeholders and delegates who are focusing on the research and real deployment in real context of new mobile health services and apps. The increase of mobile health and wellbeing apps and wearable solutions is one of the major factors for the change we are experiencing in daily living, working and social context.

# Connected Health Summer School 2018

*Mobile Solutions for a  
better Health*



25 – 28 June 2018  
Artimino, Firenze, Italy

## PROMOTED BY



University of Ulster  
*Computer Science Research Institute*  
<https://www.ulster.ac.uk/>



I+ srl  
*IT Solutions for the healthcare domain*  
<http://www.i-piu.it/>

## CONNECTED HEALTH - SUMMER SCHOOL CHAIRS

Professor **Chris Nugent**  
Ulster University

Professor **Cristiano Paggetti**  
I+ S.r.l.

Professor **Nick Batey**  
Wales Government

## ORGANISED BY



## Background and objectives

The increase of mobile health and wellbeing apps and wearable solutions is one of the major factors for the change we are experiencing in daily living, working and social contexts. This rapid transition poses huge opportunities to adopt a smart healthy lifestyle to prevent chronic diseases, to recover properly after treatment or to slow down the effect of chronic diseases.

This Summer School has been designed for early career researchers, stakeholders and delegates who are focusing on the research and deployment of new mobile health services and apps. Summer School students will attend overall sessions and specific working group activities, while delegates will be able to attend all the sessions of the Summer School and related networking and social events.

Delegates are members of Public or private Organisations, interested in the Connect Health domain, willing to take part at the Summer School and parallel strategic initiatives events.

The Summer School, in an exclusive context tailored for networking and knowledge sharing, it is based on an intensive one week programme of activities, both from a theoretical and practical perspective, which will offer training in emerging technologies, health, social science and business topics, with a strong focus on user engagement prospective. Track of records and student community reinforce impact of the summer school in your personal career. All the courses and lectures are delivered by internationally renowned multidisciplinary experts selected by the Summer School Faculty board. The Connected Health Summer School is an ideal learning platform for health and social care professionals, clinicians, researchers and health care managers, who have been asked with designing, implementing, leading or managing Connected Health solutions.

The International Summer School will take place from June 25 to 28, 2018, in the inspiring context of Renaissance Villa of Artimino in Tuscany. The syllabus will include tutorials, lectures, group work, presentations, case studies and discussions around all aspects of Mobile Health solution for connected health service.

The link to the Programme is available at <http://www.connectedhealth-summerschool.org/>

## Course overview and approach

### **Course overview:**

Over a period of 4 days, training activities will be delivered to empower students with the necessary knowledge to understand and apply the concept of Connected Health at three different levels:

- Analysing user's and service provider's perspectives;
- Technological challenges and opportunities;
- Innovation and business perspectives.

The main objectives of the Summer School is to share knowledge and best practices.

The Summer School will adopt both a multi-disciplinary and cross-sector perspective and will examine a number of exemplar Projects within both a European and International contexts.

### **General approach:**

The Summer School will offer formal teaching, practical exercises and group discussions over an period of days. It will adopt a highly participative approach which will emphasise group work cutting across participant presentations, round tables and panel discussions and practical exercises.

By using a broad mix of teaching methods, including multi-disciplinary group work and case analyses the course will build and reinforce the competencies of participants.

The training will be delivered by a multidisciplinary team of experts with a track record in the analysis, implementation and evaluation of Connected Health Solutions, who will share their knowledge and guidance related to innovative ways to offer real solutions which will have an impact.

## Faculty Members

### **Chris Nugent**

He is the Director of the Computer Science Research Institute and holds the position of Professor of Biomedical Engineering. He is based within the School of Computing and Mathematics at Ulster University.

He received a Bachelor of Engineering in Electronic Systems and DPhil in Biomedical Engineering both from Ulster University. In 2016 he was awarded the Senior Distinguished Research Fellowship from Ulster University. His research within biomedical engineering addresses the themes of the development and evaluation of technologies to support ambient assisted living. Specifically, this has involved research in the topics of mobile based reminding solutions, activity recognition and behaviour modelling and more recently technology adoption modelling.



### **Cristiano Paggetti**

PHD in Biomedical Engineering, Marie Curie – Post Doc Fellowship. High qualified experience in model service and technology development and assessment. High qualified experience in system analysis and user requirements identification at interdisciplinary level in order to identify the proper trade-off among technological solutions and user's needs, usability and ethical issues.

Since 1998 he is expert for the European Commission and European Parliament in the area of e-Health and e-Inclusion and Market Deployment. He participated to several international and regional initiative related to Ambient Assisted Living and ICT for Ageing, in particular related to policies and strategy to promote the adoption and start-up of ICT for aging services to support active ageing approach.



### **Nick Batey**

Nick leads European and International engagement for the Health and Social Care Department in Wales, UK. He has worked extensively in driving technology enabled change in regional government, health & local government and was seconded to the European Commission for 5 years to help drive European policies and programmes in eHealth, eInclusion and eGovernment. He has worked with board level teams in the public and private sector to accelerate the use of digital technology to deliver benefits to citizens, improve the sustainability of public services and help boost markets for innovative products and services. He has delivered successful regional digital strategies and implementation programmes ranging from setting up a new regional assembly (National Assembly of Wales) to implementing large scale hospital and community systems.



### **Jane Walsh**

Jane Walsh is the Director of the mHealth Research Group and the Co-Leader of the Health and Wellbeing Cluster Whitaker Institute.

The bedrock of her research is underpinned by the theme 'Health Behaviours for Healthy Ageing' and she has recently secured funding in excess of 5 million euro from the EU to conduct research on personalised technological solutions for healthy ageing. She is an active member of the H2020 European Network for the Joint Evaluation of Connected Health Technologies (ENJECT) and is a recognised expert in mobile technology and health behaviour change and has given multiple Invited Keynotes in the area of mHealth both nationally and internationally.



**Ian Cleland**

Dr Ian Cleland is a Research Fellow in Computer Science within the Northern Ireland Connected Health Innovation Competence Centre (NI-CHIC). Ian received his B.Sc. in Biomedical Engineering in 2009 from the University of Ulster.. Currently his research interests include activity recognition, pervasive computing, the quantified self, self-management and behaviour change. Ian has extensive expertise in the application of pervasive computing technology, specifically wireless sensor networks and mobile technology, to support ambient assisted living. He currently teaches the use of wireless sensor networks to a year 4 undergraduate Ian is a reviewer for scientific journals including the IEEE Journal of Biomedical and Health Informatics, MDPI Journal sensors, Pattern Recognition Letters and Journal of Clinical Interventions in Aging.



**Cristian Leorin**

He is an Assistive Technology expert and consultant on :Strategies and methodologies for individuals with communication difficulties, Development of ICT tools, innovative therapeutic approaches and intervention, Augmentative and Alternative Communication, Awareness and exploration issues such as safety, domotics, telemedicine, travel, study and leisure of the older generation and persons with disabilities. He is a member of the scientific committee and the board of directors of the association AIP (Italian Association of psychogeriatrics), that linked clinical/medical and patients with the goal of implementing technology-based assistance best practices that are effective in improving the wellbeing of both people with dementia and their caregivers. In January 2014 he co-founded Novilunio, an interprofessional association dedicated to providing dementia care services and educational programs to individuals suffering from dementia and mild cognitive impairment (MCI).



**Olivier Horbowy**

Olivier Horbowy joined ST Microelectronics in 2010, in Asia. He was responsible for starting the “Patient Remote Monitoring” activity in Asia, focusing on China. Since end of 2015, he is now developing advanced projects for the “Healthcare” market in Europe, coordinating IoT cooperative projects within the ST “Strategic Marketing” EMEA. Olivier is involved in the Alliance for IoT Innovation (AIOTI), member of the “Smart Living environments for Ageing Well” workgroup. Olivier currently contributes to “Activage”, a European multi-centric Large Scale Pilot across Europe focusing on Active & Healthy Ageing IoT based solutions and services, supporting and extending the independent living of older adults in their living environments, and responding to real needs of caregivers, service providers and public authorities.



**Sungyoung Lee**

He received his B.S. from Korea University, Seoul, South Korea in 1978. He got his M.S. and Ph.D. degrees in Computer Science from Illinois Institute of Technology (IIT), Chicago, Illinois, USA in 1987 and 1991 respectively. He has been a professor in the Department of Computer Engineering, Kyung Hee University, Korea since 1993. He is a founding director of the Ubiquitous Computing Laboratory, and has managed Neo Medicinal ubiquitous-Life Care Information Technology Research Center, Kyung Hee University as a director since 2006. Currently, he is the director of project called “Development of mining minds technology exploiting personal big data” which is funded by Ministry Of Trade, Industry and Energy (MOTIE). Before joining Kyung Hee University, he was an assistant professor in the Department of Computer Science, Governors State University, Illinois, USA from 1992 to 1993. His current research focuses on Healthcare Systems, Ubiquitous Computing, Cloud Computing, Intelligent Computing, and Context-Aware Computing.





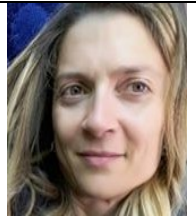
**Andrea Frosini**

Andrea is the Intellectual Property Manager of the Tuscany Life Sciences Foundation at the Office located inside of the Tuscany Region, where he is also cooperating with the Biomedical and Pharmaceutical Research Office for the definition of policies and tools to support biomedical research in regional University Hospitals and Universities. Since 2006 he has been involved in technology transfer, first at the Liaison Office of the University of Siena, and then, from 2008 at the Life Sciences Foundation.



**Elisa Scopetani**

Elisa is responsible for the organizational position "Innovative Processes in the Development of the Integrated Territorial Services and Proactive Healthcare" at the Department of "Organizing Care pathways for chronic care patients" of the Directorate of Citizenship and Social Cohesion of the Tuscany Region. Since 2009 she has been involved in the development of the network of territorial services in regional, national and European projects; since 2016 she is Correspondent of the European Commission and Coordinator of the Reference Site in Tuscany under the European Innovation Partnership on Active and Healthy Aging.



**Enrico Vicario**

Enrico Vicario is a Full Professor of Computer Science and Engineering. Since November 2016, he is the Head of the **Department of Information Engineering** of the University of Florence.

He works in the area of Software Engineering, at the at the Software Technologies Lab of the University of Florence (<http://stlab.dinfo.unifi.it/>), with a present scientific focus on:

- model based development, verification, and evaluation of concurrent systems with uncertain temporal parameters and stochastic durations;
- software architectures and software engineering methods, with a specific focus on healthcare information systems.

He is author of more than 100 papers indexed on Scopus (including 18 works in various IEEE Transactions).



**Francesco Benvenuti**

Degree in Medicine at the University of Florence in 1977. Specialist in Gerontology and Geriatrics (1980) and Neurophysiopathology (1988). From 1979 to 2003 MD at the Geriatric Department of Florence of the Istituto Nazionale di Ricovero e Cura per Anziani (INRCA, Italian National Research Institute on Aging). 1980 Senior House Officer at Kingston General Hospital, Hull, UK. From 2003 to 2016 director of the Rehabilitation, Geriatric and Community services of the Azienda Unità Sanitaria Locale 11 di Empoli of the Regione Toscana. From 1982 to 2015 contract professor at the School of Physiotherapy and School of Movement Sciences of the University of Florence. From 2017 adjunct professor of Information Systems of the University of Maryland Baltimore County, Baltimore, MD, USA. Participated in research projects funded by the Italian Ministry of Health, Istituto Superiore di Sanità, Tuscany Region, and European Union and private companies.



**Bryan W. Scotney**

He is currently Professor of Informatics at Ulster University, where, from 2005 to 2015, he was Director of the Computer Science Research Institute. He has a BSc in Mathematics from Durham University, UK (1980) and a PhD in Mathematics from the University of Reading, UK (1985). With over 300 publications, he has a range of research interests in mathematical computation, including digital image processing and computer vision, pattern recognition and classification, statistical databases, and reasoning under uncertainty, and applications to healthcare informatics and telecommunications network management. He is a former President of the Irish Pattern Recognition and Classification Society (2007-2014), and Member of Council of the International Federation of Classification Societies.



**Kåre Synnes**

Professor Kåre Synnes, PhD, has been conducting applied research in the field of health and technology since 1998. His background is in Computer Science, with a Master of Science degree in 1995 and a PhD degree in 2002 at Luleå University of Technology (LTU). Kåre is today a professor in Pervasive and Mobile Computing at LTU, where he also acts as a coordinator for Third Cycle Studies and as the Chairman of the Appointment Board for the Faculty of Technology. Kåre Synnes also holds a visiting professorship at Blekinge Institute of Technology (BTH) and is frequently acting as an external expert for the European Commission.

He has been involved in inter- and multidisciplinary research in the borderland between computer science and health that involve multimedia communication as well as pervasive, mobile and social computing. He has been active within EIT Digital in activities related to Health and Wellbeing, and in research projects such as FP5 MobiHealth, FP6 CogKnow, FP7 AAliance, FP7 Dem@Care.



**Elena Tamburini**

She received her Master's degree in Electronic-Biomedical Engineering from the University of Florence. She is Strategic Director of the eHealth and Telemedicine Unit. Responsible for ICT based healthcare service models definition and validation. She has experience in the following fields: Planning and development of integrated systems for applications in biomedical engineering and in computer assisted medicine; set up of innovative service models and impact assessment methodologies.



**Macarena Espinilla**

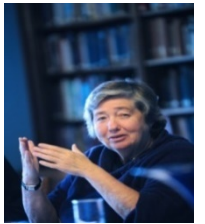
She received the M.Sc. and Ph.D. degrees, both in computer science, from the University of Jaén (Jaén, Spain), in 2006 and 2009, respectively. She received the Ph. D. Award in the field of computer science in the University of Jaén. She is currently Associate Professor in the Department of Computer Systems at University of Jaén. Her current research interests include soft computing, fuzzy logic-based systems, ambient intelligence, ubiquitous computing, ambient assisted living, recommender system, linguistic preference modelling and fuzzy logic-based systems. She co-edited three journal special issues on computational intelligence and ubiquitous computing, published more than 15 papers in journals indexed by the SCI as well as more than 50 contributions in International Conferences related to her areas.





### **Sally McClean**

She received her first degree in Mathematics from Oxford University, and then obtained a MSc in Mathematical Statistics and Operational Research from Cardiff University, followed by a PhD on Markov and semi-Markov models at Ulster University. She is currently Professor of Mathematics at Ulster University. Her main research interests are in Stochastic Modelling and Optimisation, particularly for Healthcare Planning, and Computer Science, specifically Databases, Internet of Things, Sensor Technology and Telecommunications. Much of this work has been focused on healthcare applications, particularly with regard to patient modelling and pervasive technologies.



### **Giuseppe Fico**

He received the Master of Advanced Studies (MAst.) in Biomedical Engineering by the Technical University of Madrid, Spain (UPM). He is currently project manager and coordinator of the Health area in the Life Supporting Technologies research group of the Telecommunication Engineering Faculty at UPM. His research focuses on ICT for Health, Ageing Well and Inclusion, with special attention to chronic disease management and diabetes. Currently he is the Technical Manager of two EC FP7 research projects: METABO in the area of eHealth applied to diabetes disease management and MOSAIC on identifying environmental factors influencing uptake and progression of diabetes. He is representing LST-UPM in the European Innovation Partnership on Active and Healthy Ageing, in the Action Group A1 Prescription and Adherence to medical plans, acting also as group coordinator.



### **Rita Paradiso**

She graduated in Physics from the University of Genoa and received her Ph.D. in Bioengineering in 1991. Molecular Electronics, Biosensors, Biomaterials for biomedical applications have been her main research topics. In particular she worked on functionalized surfaces and their characterization. She worked in London during the Ph.D. at the Physics Department of Queen Mary College. In 1993 she got a Post Doctor CE fellowship, at the Molecular Chemical Laboratory - CNE Saclay, France. In 1994 she was Post Doctor fellow at the Department of Material Engineering of the University of Trento. She joined Smartex in 2000 as R&D Manager, and from July 2011 is the CEO of the company.



### **Terje Grimstad**

He has long experience in different aspects of ICT. He is a master of Informatics from the University of Oslo. He was a Research Director at the Norwegian Computing Centre, a Project Officer in the European Commission and director for systems development and electronic services in the large Norwegian ICT company Ergo AS. Since 2004 he has been the CEO of the Norwegian SME Karde. Karde has led and participated in national and several European R&D-projects, mainly working with issues related to people with dementia and elderly in general, but also with people with intellectual disabilities.





## VENUE

### TENUTA DI ARTIMINO

Unesco Heritage Site in Tuscany



**Tenuta di Artimino** is a place of rare beauty in the heart of Tuscany. Good food, quality wines, hospitality and professionalism, art, culture and the many activities in the area, all make the Estate an oasis of wellness. Here you can indulge in the rhythm of the countryside, surrounded by picturesque Tuscan views while not being far from the main artistic cities and interesting sites of the region. The history of Artimino is hidden in the mist of time: first an important Etruscan settlement, then a medieval village enclosed by a turreted wall and lastly, the beloved land of the Medici family, chosen for the construction of one of their most important villas, Villa of the 100 Chimneys.

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## REGISTRATION

**REGISTRATION DEADLINE MAY 31st, 2018.**

### **REQUIREMENTS**

Early carer researchers including PhD students, postdoctoral fellows (within 3 years of graduating) and researchers (with less than 5 years' experience following undergraduate study) are invited to apply.

Public or private Organisations involved in the Connect Health domain can select and apply for a delegate. Delegates benefit from a special discount rate as specified below.

Participant places will be limited to 25.

### **HOW TO APPLY**

You are required to fill in the **Application form** available <http://www.connectedhealth-summer-school.org/>

Candidates will be selected based upon their CV and the expressed reason for applying.

Once completed, you must send it to the coordinator's email address **cd.nugent@ulster.ac.uk** and to the administrative Committee **f.abiuso@medeaproject.eu** in copy, along with your curriculum.

Selection will be based on the material submitted.

The co-ordinator will reply to you within 5-8 working days.

After receiving the acceptance for your participation to the summer school you have to connect to the portal <http://www.connectedhealth-summer-school.org/> and register.

## FEES

**REGISTRATIONS AFTER THE 15th OF MAY WILL ENTAIL A 30% PRICE INCREASE**

|  | REGISTRATION FEE |
|--|------------------|
| <b>SUMMER SCHOOL 2018 - REGISTRATION<br/>(Summer School access Monday to Thursday)</b>                     | <b>500 €</b>     |
| <b>SUMMER SCHOOL 2018 – FULL FEE FOR DELEGATES<br/>(Summer School access Monday to Thursday)</b>           | <b>350 €</b>     |
| <b>SUMMER SCHOOL 2018 – ONE DAY FEE FOR DELEGATES<br/>(Summer School access one day)</b>                   | <b>100 €</b>     |
| <b>SUMMER SCHOOL 2018 – FOUR DAY FEE FOR REMIND<br/>PROJECT DELEGATES (Summer School access four days)</b> | <b>200 €</b>     |

### REGISTRATION COVERS:

- Summer School access Monday to Thursday
- Refreshments: Coffee breaks and lunches Monday to Thursday
- Social Dinner on Monday Evening

### REGISTRATION NOT INCLUDE:

Accommodation and evening meals (Tuesday to Thursday).

Participants are expected to make their own travel and accommodation arrangements.

Special accommodation rates have been negotiated for participants at the Tenuta di Artimino: <http://www.artimino.com> until 20.04.2018

|   |                    |
|---|--------------------|
| Double room with single occupancy<br>Hotel Paggeria Medicea | € 130,00 per night |
| Double room<br>Hotel Paggeria Medicea                       | € 150,00 per night |
| Four-bed room<br>Hotel Paggeria Medicea                     | € 185,00 per night |
| Apartment (Four-bed)<br>Old village of Artimino             | € 185,00 per night |

### **MODALITIES OF PAYMENT**

Payments are accepted by credit card and bank money transfers (national or international bank money transfers in euro for which the transmitter pays all bank charges).

### **University of Ulster**

Ulster is a university with a national and international reputation for excellence, innovation and regional engagement. It makes a major contribution to the economic, social and cultural development of Northern Ireland and plays a key role in attracting inward investment. The University has a positive impact on the economy and community in Northern Ireland. Technology and knowledge transfer and commercial exploitation of ideas are promoted through a range of initiatives and ongoing research and consultancy with business and industry.

The Smart Environments Research Group (SERG) of the University has a national and international reputation for undertaking and leading forefront high-quality research in the area of Ambient Assisted Living. It has competencies in the design, development and evaluation of smart homes, assistive technologies, pervasive and mobile computing and intelligent assistive systems. The group has extensive expertise in multimedia processing, semantic modelling, representation and reasoning, novel interface design and their applied research for sensor data processing, ADL (activity of daily living) modelling, recognition and semantic/knowledge based personalised assistance provision. Additionally the group has been involved in supporting the evaluation and analysis of results of a number of trials in the areas of dementia, active ageing, stroke, long term chronic pain, CHF and autism.

### **I+ S.r.l.**

I+ develops and provides several ground breaking services and networking customer-oriented solutions for social and healthcare domains. It is certified as Telecare solutions and medical software manufacturer (ISO9001 - ISO13485). It develops and deploys integrated solutions to plan and deliver through multichannel interfaces different service levels for personalized care (Activity Planner, Service Workflow modelling, Routing and Localization, Reporting services). I+ implements Ambient Assisted Living (AAL) environments to promote autonomy and independent life of disabled and elderly people. It integrates top level monitoring devices into its innovative e-care DGHome platform, to provide cost-effective, high quality, user-friendly, medical diagnostic support oriented tele-monitoring solutions. I+ has a specific expertise in development of tools supporting automatic and manual annotation of multisensory data for human detection behaviour and context aware decision support systems. It manages its leading market position thanks to innovative services and business models, international partnership and liaisons with research centres. I+ fosters its market penetration through an integrated offer combined with education activities and proved expertise in the e-care service models definition and impact assessment. This expertise is based on strong cooperation with medical centres, end user organizations and public healthcare institutions.



## INFORMATION

### ORGANIZATION



**MEDEA S.r.l.**

#### **Contact Details:**

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