ICOST 2012

10th International Conference On Smart homes and health Telematics

12-15 June, Artimino, Italy

“Impact Analysis of Solutions for Chronic Disease Prevention and Management”

Conference Program
Message from the Chair

Dear Colleagues and Guests,

Welcome to the 10th International Conference on Smart Homes and Health Telematics - ICOST 2012. It is our great pleasure and honor, after nine very successful conferences, to host ICOST for the first time in Italy. On behalf of the ICOST 2012 Committees, I would like to express to all participants our appreciation for their contributions.

ICOST, flagship for Ambient Assisted Living and Connected Health, provides a single focus for the presentation of high-quality research and applications in this important multi-disciplinary area, with the ambitious objectives of bringing together the best experiences in this rapidly emerging field and encouraging constructive dialogue between clinicians, service providers, industries, computer scientists and researchers.

Each year, the conference focuses on a particular theme, we felt it was pertinent for the 10th anniversary to select the theme: “Impact analysis of solutions for chronic disease prevention and management”. The goal of this theme is to focus the discussion on the impact analysis based on real outcomes indicators and service delivery models able to reinforce continuity of care approach and generate clinical and economic advantages.

Chronic diseases prevention and management is a mandatory goal for the knowledge society, indeed chronic diseases are placing significant and unsustainable pressure upon health and social care services across the globe. In an effort to help to alleviate some of these pressures, researchers and industries are investigating how to empower in daily life continuity of care processes supported by assistive technologies within home environments and beyond. The objective of such a approach is to provide personalized coaching for everyday activities supported by the recognition of activities and environmental changes, along with smart reminders. A challenge in promoting the continuity of care is to ensure that technology driven health solutions provide an adequate quality of care when compared to institutional care facilities. Key to this success is the provision of “smart homes” and “smart cities” able to support personalized services, integrated care and smart community processes for chronic diseases management.

Despite several studies have already proved the impact of continuity of care approach on the enhancement of quality of life and on the reduction of healthcare costs, we still face the need of an integrated and collaborative approach to service deployment based on a
strong industrial, health and social care service collaboration to ensure large scale uptake. We have the responsibility to jointly promote and speed up this process.

At the ICOST 2012 we will continue to address the educational and professional development interests of participants through stimulating and thought-provoking presentations of three keynote speakers, 25 full papers selected for oral presentation, 23 short papers selected for poster presentation along with thematic round tables, demonstrations, technical exhibits, mentoring opportunities, a preconference event on “Innovation for Continuity of Care” where different initiatives and projects will share their visions and expertise and a special symposia on “Methods and Instruments for Chronic Diseases Management” in collaboration with the conference on “Chronic Care Model and Initiative Medicine” promoted by Empoli Council Health Authority. The papers selected this year are the result of a strong competition among 74 original submissions, from authors from over 25 countries, reviewed by an International Program Committee consisting of domain experts from over 15 countries.

ICOST 2012 program is really challenging, covering a great variety of topics by an impressive group of invited regional and international expert faculty. The endorsement of major Tuscany universities confirms the high quality and scientific standards of this congress. I hope that you will all contribute to this excellent conference, that you will take part enthusiastically, that you will share experiences, discuss concrete service deployment roadmap, interact with the other participants and most important that you will enjoy.

I would like to take this opportunity to express special thanks to all the people involved in the organization of this conference. We have made every effort to provide an attractive program and we look forward to meeting you personally and welcoming you to the fascinating spring time of the Tuscany.

Best regards,

Cristiano Paggetti
Chair ICOST 2012
Managing Director I+ S.r.l.
Songyoung Lee

Songyoung Lee 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 been affiliated with a director of Neo Medicinal ubiquitous-Life Care Information Technology Research Center, Kyung Hee University since 2006.

Songyoung Lee’s keynote speech will be on “Smart CDSS - Clinical Decision Support System”

Norman Black

Norman Black is Professor of Medical Informatics at the University of Ulster. He received the BSc degree in Electrical and Electronic Engineering and the PhD degree from the Queen's University of Belfast in 1980 and 1984 respectively. From 1994 to 1999 he was Director of the Northern Ireland Bioengineering Centre (NIBEC). Professor Black has extensive research experience having been President of the European Society for Engineering and Medicine (ESEM) and a Founder Member of the Institute of Telemedicine.

Norman Black’s keynote speech will be on “Smart Environments as an enabler for Connected Health”

Leo Anthony Celi

Leo Anthony Celi is an internist, an intensive care unit (ICU) doctor, and an infectious disease specialist, who has practiced medicine in 3 continents, giving him broad perspectives in healthcare delivery. In addition, he pursued a master’s degree in biomedical informatics at Massachusetts Institute of Technology (MIT) and a master’s degree in public health at Harvard University. He currently holds faculty positions at Harvard Medical School as an ICU specialist at the Beth Israel Deaconess Medical Center and at MIT as a researcher. He founded and directs Sana (sana.mit.edu) at the Computer Science and Artificial Intelligence Laboratory at MIT.

Leo Anthony Celi’s keynote speech will be on “Design Thinking: Healthcare technology in the context of quality improvement”
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**Conference Hosted by:**
I+ S.r.l., Florence, Italy
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<td>Tuesday, June 12th</td>
<td>9:00 - 11:00 Projects Clustering Meeting</td>
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<td>11:30 - 12:45 Expertise Sharing Session</td>
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<td>Wednesday, June 13th</td>
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<td>13:30 - 16:30</td>
<td><strong>Workshop: Continuum of care</strong></td>
<td>15:45 - 16:15 Coffee Break</td>
<td>16:30 - 17:30 Projects meet Users</td>
<td>17:30 - 20:00 ICOST 2012 Preconference Registration</td>
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<td>13:30 - 14:00</td>
<td><strong>Poster Session</strong></td>
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<td>16:15 - 17:00 Round Table Business Case</td>
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<td>16:15 - 17:00 Technical Demo</td>
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<td><strong>ICOST Past and Future Closing Remarks</strong></td>
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“Innovation For Continuity of Care”
Preconference Event

8:15 - 8:45  Registration

8:45 - 9:00  Welcome and Introduction

9:00 - 11:00  Projects Clustering Meeting
  Chairs: Cristiano Paggetti, Silvio Bonfiglio

11:00 - 11:30  Coffee Break

11:30 - 12:45  Expertise Sharing Session

12:45 - 13:30  Lunch

13:30 - 16:30  Workshop: Continuum of care for a better
  and sustainable healthcare

15:45 - 16:15  Coffee Break

16:30 - 17:30  Projects meet users - Demonstration Session

17:30 - 20:00  ICOST 2012
  Preconference Registration

18:30 - 20:00  ICOST 2012 - Conference
  Welcome Cocktail
Wednesday, June 13th

8:15 - 8:45  Registration

9:00 - 9:30  Opening

9:30 - 10:30  Keynote speech: “Smart CDSS - Clinical Decision Support System”
Songyoung Lee

10:30 - 11:00  Coffee Break

11:00 - 12:45  Oral Session 1: User engagement for improved adoption of assistive technologies
Chairs: Mossaab Hariz, Jon Sanford

Challenges of User-Centred Research in the Development of Ambient Assisted Living Systems
Ryan Woolrych and Andrew Sixsmith

A Cross-Architecture Framework for Service Discovery, Invocation, and Composition in Smart Environments
Hen-I Yang, Ryan Babbitt, Johnny Wong and Carl K. Chang

Impact analysis of assessment, consultation and education services to support the adoption of smart home technologies, innovations for chronic disease prevention and solutions for independent living
James Barrientos, Jeffrey Soar and Ying Su

Ensuring A Fruitful Future to Innovation And Research: Practical Guidance for the Involvement of Older People in Research
Anne-Sophie Parent, Nena Georgantzi and Ilenia Gheno

Fostering a continuum of care
Silvio Bonfiglio

Session wrap-up
Wednesday, June 13th

12:45 - 13:30  Lunch & Poster Session

Stakeholder Involvement Guidelines to Improve the Design Process of Assistive Technology
Leo Galway, Mark P. Donnelly, Chris Nugent and Sonja A. O'Neill

Comparison and Complementarity of Two Approaches to Implement AAL Systems
Jean-Baptiste Lézoray, Patrice Roy, Bessam Abdulrazak, Maria Teresa Segarra and André Thépaut

Smart Documents for Home Automation
Andres Albanese

Proposed generic method to assess efficiency of smart-walkers
Viviane Pasqui, Ludovic Saint-Bauzel, Pierre Rumeau and Nadine Vigouroux

Peer review meetings of family doctors show electronic data collection reduces the variability of pharmaceutical prescriptions at the Local Health Authority of Empoli
Piero Salvadori

A Smart Home 3-D Modeling Approach for Spatiotemporal Analysis
Daniel Chamberland-Tremblay, Sylvain Giroux and Claude Caron

Integration of HL7 Compliant Smart Home Healthcare System and HMIS
Wajahat Ali Khan

13:30 - 14:00  Poster Session

Reaching Analysis of Wheelchair Users Using Motion Planning Methods
Jing Yang, Patrick Dymond and Michael Jenkin

Improving Telerehabilitation Technology to Challenge Chronic Disease Management
Michel Tousignant, Mathieu Hamel, Simon Brière and Catherine Pagé

Rehabilitation training and evaluation with the L-EXOS in chronic stroke
Antonio Frisoli, Carmelo Chisari, Edoardo Sotigliu, Caterina Porcoio, Marco Fontana, Bruno Rossi and Massimo Bergamasco

An open framework for immersive and non-immersive accessibility simulation for smart living spaces
Thanos Tsakiris, Panagiotis Moschonas, Konstantinos Moustakas and Dimitrios Tzovaras
Oral Session 2: Self-management and tele-rehabilitation
Chairs: Silvio Bonfiglio, Jeffrey Soar

User Adoption of Mobile Apps for Chronic Disease Management: A Case Study based on myFitnessCompanionTM
Peter Leijdakers and Valerie Gay

Effects of In-Home Tele-Rehabilitation on Task Self-Efficacy in Mobility Impaired Adults
Jon Sanford, Patricia Griffiths and Helen Hoenig

The Use of Telerehabilitation to Provide an Exercise Program to Improve Balance in a Post-Stroke Population: Preliminary Results
Hélène Corriveau, Michel Tousignant, Sylvie Gosselin and Patrick Boissy

Personalized Healthcare Self-Management Using Social Persuasion
Hamid Mukhtar, Arshad Ali, Sungyoung Lee and Djamel Belaïd

A clinical observational study in the CHIRON project: rationale and expected results
Paolo Emilio Puddu, John M. Morgan, Concetta Torromeo, Nick Curzen, Michele Schiariti and Silvio Bonfiglio

Session wrap-up

Coffee Break

Round Table Business Case
Chairs: Cristiano Paggetti, Carlos Cavero

Keynote speech: “Design Thinking: Healthcare technology in the context of quality improvement”
Leo Anthony Celi

Gala Dinner - Artimino
8:15 - 8:45  Registration

9:00 - 12:45  Special Symposia
“Methods and instruments for chronic diseases management”

12:45 - 13:30  Lunch & Poster Session

Human Activity Recognition Using the Labeled Body Parts of Depth Silhouettes
Ahmad Jalal, Tae-Seong Kim, Sungyoung Lee and Jeong Tai Kim

The role of ICT in a healthcare moving from "clinical-centric" to "patient-centric"
Silvio Bonfiglio

A Fuzzy-based Context Modeling and Reasoning Framework
for CARA Pervasive Healthcare
Bingchuan Yuan and John Herbert

A Smart Garment for Older Walkers
a collaboration between end users and technologists
William Burns, Chris Nugent, Paul McCullagh, Dewar Finlay,
Ian Cleland, Sally McLean, Bryan Scotney and Jane McCann

Indoor Location Tracking based on a Discrete Event Model
Mickael Danancher, Jean-Jacques Lesage and Lothar Litz

Smart CDSS for Smart Homes
Maqbool Hussain
Poster Session

Context Awareness for a Smart Environment
Utilising Context Maps and Dempster-Shafer Theory
H. Joe Steinhauer, Stephen Marsland and Hans W. Guesgen

A Protocol for Evaluating Online Social Networks using Eyetracking
Kyle Boyd, Chris Nugent, Mark Donnelly and Roy Sterritt

Heart Failure Artificial Intelligence-based Computer Aided Diagnosis Telecare System
Gabriele Guidi, Ernesto Iadanza, Guido Biffi Gentili, Maria Chiara Pettenati,
Massimo Milli and Francesco Pavone

Benchmarking results of semantic reasoners applied
to an ambient assisted living environment
David Ausín, Federico Castanedo and Diego López-De-Ipiña

Medbuddy: A Mobile Medicinal Management System for Children with ADD/ADHD
Hongyu Chen, Hen-I Yang, Heather Hooks, Joongsup Lee,
Debra Satterfield, Johnny Wong and Carl Chang

Oral Session 3: Advances in remote monitoring and activity recognition

Does Location Help Daily Activity Recognition
Chao Chen, Daqing Zhang, Lin Sun, Mossaab Hariz and Yang Yuan

A robot-environment cooperation architecture for the safety of elderly people at home
Antonio Andriatrimoson, Nadia Abchiche, Simon Galerne and Etienne Colle

Medical Expert Support Tool (MEST): a person-centric approach for healthcare management
Carlos Caverro Barca, Juan Mario Rodriguez, Rosana Valle Soriano, Alberto Rugnone,
Cristiano Paggetti, Elena Tamburini, Francesco Foresti, John Gialeleis, Christos Panagiotou,
Petros Chondros, Maitena Ilardia, Inaki Eguia, Paolo Emilio Puuddu and Mitja Luštrek
The integration of e-health into the clinical workflow
Electronic Health Record and standardization efforts
Roberta Gazzarata, Fabio Vergari, Jan-Marc Verlinden, Francesco Morandi, Simone Naso, Viola Parodi, Tullio Salmon Cinotti and Mauro Giacomini

Innovative solutions in health monitoring at home:
the real-time assessment of serum potassium concentration from ECG
Cristiana Corsi, Johan De Bie, David Mortara and Stefano Severi

Session wrap-up

15:45 - 16:15  Coffee Break

16:15 - 17:00  Technical Demonstration
Chairs: Chris Nugent, Kostas Perakis

17:00 - 18:00  Keynote speech:
“Smart Environments as an enabler for Connected Health”
Norman Black
8:15 - 8:45  
Registration

9:00 - 10:45  
Oral session 4: Sensor networks for unobtrusive monitoring solutions  
Chairs: Mounir Mokhtari, Andrew Sixsmith

Assessment of custom fitted heart rate sensing garments whilst undertaking everyday activities  
Ian Cleland, Chris Nugent, Dewar Finlay, William Burns, Jennifer Bougourd and Roger Armitage

Multi-modal Non-intrusive Sleep Pattern Recognition in Elder Assistive Environment  
Hongbo Ni, Bessam Abdulrazak, Daqing Zhang, Shu Wu, Xingshe Zhou, Kejian Miao and Han Daifei

A non invasive, wearable sensor platform for multi-parametric remote monitoring in CHF patients  
Hector Solar, Erik Fernández, Gennaro Tartarisco, Giovanni Pioggia, Božidara Cvetković, Simon Kozina, Mitja Luštrek and Jure Lampe

A Non-Intrusive Monitoring System for Ambient Assisted Living Service Delivery  
Willy Allège, Thomas Burger, Pascal Berruet and Jean-Yves Antoine

Passive Sleep Actigraphy: Evaluating a non-contact method of monitoring sleep  
Andrew McDowell, Mark Donnelly, Chris Nugent and Michael McGrath

Session wrap-up

10:45 - 11:15  
Coffee Break

11:15 - 13:00  
Oral Session 5: Real world “aware” systems  
Chairs: Norman Black, Sungyoung Lee

A Semantic Plug&Play Based Framework for Ambient Assisted Living  
Hamdi Aloulou, Mounir Mokhtari, Thibaut Tiberghien, Jit Biswas and Jin Hong Kenneth Lin

A macro and micro context awareness model for the provision of services in smart spaces  
Charles Gouin-Vallerand, Patrice Roy, Bessam Abdulrazak, Sylvain Giroux and Anind K. Dey
ACARP: Auto Correct Activity Recognition Rules using Process Analysis Toolkit (PAT)
Vwen Yen Lee, Yan Liu, Xian Zhang, Clifton Phua, Kelvin Sim,
Jiaqi Zhu, Jit Biswas, Jin Song Dong and Mounir Mokhtari

An Extensible Situation-aware Caring System for Real-world Smart Wards
Yu-Chiao Huang, Chun-Feng Liao, Yu-Chun Yen, Li-Jen Hou,
Li-Chen Fu, Chia-Hui Chen and Chiung-Nien Chen

Testing Classifiers for Embedded Health Assessment
Marjorie Skubic, Rainer Dane Guevara and Marilyn Rantz

Session wrap-up

13:00 - 13:30  ICOST Past and Future
                 Closing Remarks

13:30 - 14:00  Light Lunch
Parallel Events

Workshop of the Italian Society of Telemedicine and Electronic Healthcare (SIT)
"Telematic Medicine and Surgery: State of the art in Italy as it emerges from the recent National Meeting of the SIT"
Thursday, June 14th - Artimino, Italy since 14:00 to 15:45

Between the 16th and 18th of May, the 3rd SIT National conference "Telematic Medicine and Surgery between Institutions, providers and citizens" has been held in the context of Esposanità, the 2nd biggest EU event on healthcare and assistance.
The picture of Italian Telematic Medicine that came out is of a lively and deeply rooted field. Italy has a long tradition of experimentation and application of telemedicine. However, the conference has been the scene to highlight and discuss also some shortcomings of the current paradigm of healthcare in which telemedicine is at times trapped. The need for a faster adaptation of the legal framework, often lacking behind the technological progress and paralyzing its translation into benefit for public health; the need for a more efficient and pervasive network linking the excellence in research among them and with possible end-users; the need for a platform where specialists, public and Institutions can challenge the fast paced innovation in this field and make sense of it together. This is the role that SIT wants to take over for itself, and we are going discuss with you how.

XII Congress on Primary Health Care Services
Local Health Authority - ASL 11 - Empoli
"Tra chronic care model e medicina di iniziativa"
Palazzo delle Esposizioni, P. zza G. Guerra, 1 - Empoli (FI) - Italy
14 - 16 June 2012

The Tuscany Region in 2008 adopted the Chronic Care Model (CCM) as a model to address the chronic epidemic. From June 14 to 16 it will be held the XII Primary Care Congress in Empoli. There will be Edward Wagner (MacColl Institute’s CCM Depository), Kate Lorig (Stanford University) self-management expert, Siriwardena from UK (European Forum for Primary Care).
A lot of regions will participate from Italy with experts who have applied different models for chronic diseases management.
The objective of the Congress is to review the application of the CCM in Tuscany in relation to other countries and regions. There will be also delegations of Sweden, Poland and Great Britain taking part in an European project of telemedicine in chronic diseases.
“Welcome Cocktail”
Tuesday, June 12th - 18:30

c/o Medici Villa Artimino
Possibility of reservation for the accompanying guest

“Gala Dinner”
Wednesday, June 13th - 19:30

c/o Medici Villa Artimino
Possibility of reservation for the accompanying guest

“Wine Tasting”
Tuesday, June 12th

c/o Salone di Bacco
Confirmation required at least a week before the event
Possibility of reservation for the accompanying wine tasting during the event
Groups minimum 10 people - max 30 each
€18.00 inclusive of VAT p.p.

“Cooking Lesson”
Saturday, June 16th

c/o Restaurant Biagio Pignatta
Lasting over 2 hours and ½ a.c.
Groups of minimum 10 pax
€35.00 inclusive of VAT p.p.