Pervasive Health 2013

7th International Conference on
Pervasive Computing Technologies for Healthcare

Technical Programme

San Servolo Island

Venice, Italy

5th to 8th of May 2013

Conference at a glance

	Monday, May 6	Tuesday, May 7	Wednesday, May 8
8:00-8:45	REGISTRATION	REGISTRATION	
8:45-9:00	CONFERENCE OPENING	ANNOUNCEMENT	
9:00-10:00	KEYNOTE SPEAKER **Elizabeth Mynatt**	KEYNOTE SPEAKER **Yvonne Rogers**	SESSION C (SHORT PAPERS) **From data capture to diagnosis**
10:00-10:15	COFFEE BREAK		
10:15-13:15	SESSION 1 **Gamification and virtual environments** SESSION 2 **Activity and behaviour evaluation**	SESSION 4 **Health professionals' needs** SESSION 5 **Supporting patients' needs**	SESSION 7 **Self-monitoring technologies** SESSION 8 **Patients and care-givers**
13:15-14:15	LUNCH		
14:15-15:45	SESSION 3 **Gait and exercise evaluation**	SESSION 6 **Sleep and Affect monitoring**	SESSION D (SHORT PAPERS) **In-home monitoring** SESSION E (SHORT PAPERS) **Personal tracking and measurement**
15:45-16:00	COFFEE BREAK		
16:00-18:00	SESSION A (SHORT PAPERS) **Therapy and Rehabilitation** SESSION B (SHORT PAPERS) **Supporting the elderly**	**16:00 Posters and Demos** **16:00 Doc. Colloquium** GALA DINNER **(20:00)**	**16:15 Townhall Meeting** **17:00 Closing remarks** **End of Pervasive Health 2013**

Monday, May 6, 2013

9:00 – 10:00
KEYNOTE TALK
SESSION CHAIR: TBD

PERVASIVE HEALTH: EMPOWERING INDIVIDUALS, FACILITATING LEARNING AND DELIVERING BETTER HEALTH

Elizabeth Mynatt
Professor
Executive Director, Institute for People and Technology
Georgia Institute of Technology, USA

While health is a pervasive human concern, healthcare is often siloed into acute care centers with misaligned incentives and fragmented care.

However, the unique capabilities of pervasive technologies have the potential to transform healthcare practices by shifting care from acute to home settings, by enabling continuous data capture and analysis, by creating a network of communication and collaboration channels, and by helping individuals engage in their own care. In the end, the emphasis changes from healthcare and chronic disease to a focus on health and wellness.

In this talk, I will draw from a number of research projects that combine computing research, human-centered design, and health management theory to create promising approaches for promoting wellness, supporting behavior change and delivering improved health outcomes.

About Elizabeth Mynatt

Elizabeth Mynatt is the Executive Director of the Institute for People and Technology (IPaT) and Professor of Interactive Computing at the Georgia Institute of Technology. The Institute for People and Technology (IPaT) at Georgia Tech focuses on examining and transforming the human-centered enterprises of media, health, education, and humanitarian systems. IPaT connects industry, non-profit, and public sector partners with Georgia Tech research and technology innovations across a breadth of disciplines, departments, and research centers, integrating academic and applied research through a unique array of living laboratories and multidisciplinary projects.

Mynatt is an internationally recognized expert in the areas of human-centered computing, ubiquitous computing and assistive technologies. Her research contributes to ongoing work in personal health informatics, computer-supported collaborative work and human-computer interface design. She is also one of the principal researchers in the Aware Home Research Initiative; investigating the design of future home technologies, especially those that enable older adults to continue living independently as opposed to moving to an institutional care setting.

Mynatt is a member of the ACM SIGCHI Academy, a Sloan and Kavli research fellow, and serves on Microsoft Research's Technical Advisory Board. Mynatt is also a member of the Computing Community Consortium, an NSF-sponsored effort to engage the computing research community in envisioning more audacious research challenges. She has published more than 100 scientific papers and chaired the CHI 2010 conference, the premier international conference in human-computer interaction. Prior to joining the Georgia Tech faculty in 1998, she was a member of the research staff at Xerox PARC, working with the founder of ubiquitous computing, Mark Weiser.

S1: GAMIFICATION AND VIRTUAL ENVIRONMENTS
SESSION CHAIR:

PAPER | Exploring Audio Storytelling in Mobile Exergames to Change the Perception of Physical Exercise *(Best Paper candidate)*
Luca Chittaro and Francesco Zuliani, *HCI Lab, Department of Mathematics and Computer Science University of Udine, Italy*

PAPER | Design Strategies for Youth-Focused Pervasive Social Health Games *(Best Paper candidate)*
Andrew D. Miller, Jessica Pater, Elizabeth D. Mynatt, *College of Computing, Georgia Institute of Technology Atlanta, GA, USA*

PAPER | Modeling Stress Recognition in Typical Virtual Environments
Nandita Sharma and Tom Gedeon, *Research School of Computer Science, Australian National University Canberra, Australia*

S2: ACTIVITY AND BEHAVIOUR EVALUATION
SESSION CHAIR:

PAPER | Towards Robust Activity Recognition for Everyday Life: Methods and Evaluation
Attila Reiss, Didier Stricker, *Department of Augmented Vision German Research Center for Artificial Intelligence (DFKI) Kaiserslautern, Germany*
Gustaf Hendeby, *Department of Electrical Engineering Linkoping University Linkoping, Sweden*

PAPER | Derivation of Night Time Behaviour Metrics using Ambient Sensors
Andrea Kealy, John Loane, Lorcan Walsh, Julie Doyle, *CASALA, Dundalk Institute of Technology, Dublin Road Dundalk, Co. Louth, Ireland*
Kevin McDaid, *SToRC, Dundalk Institute of Technology, Dublin Road Dundalk, Co. Louth, Ireland*

SHORT PAPER | "Moon Phrases": A Social Media Facilitated Tool for Emotional Reflection and Wellness
Munmin De Choudhury, *Microsoft Research, USA*
Michael Gamon, *Microsoft Research, USA*
Aaron Hoff, *Microsoft Research, USA*
Asta Roseway, *Microsoft Research, USA*

SHORT PAPER | Virtual-spine: The Collaboration Between Pervasive Environment Based Simulator, Game Engine (Mixed-Reality) and Pervasive Messaging
Stephen Jia Wang, *Monash University*
Di Yu, *Monash University*

S3: GAIT AND EXERCISE EVALUATION
SESSION CHAIR:

PAPER | Evaluating Rehabilitation Exercise Performance Using a Single Inertial Measurement Unit

Oonagh Giggins, Daniel Kelly and Brian Caulfield, *Clarity Centre for Sensor Web Technologies, University College Dublin, Ireland.*

PAPER | Mapping Kinect-based In-Home Gait Speed to TUG Time: A Methodology to Facilitate Clinical Interpretation

Erik E. Stone and Marjorie Skubic, *Center for Eldercare and Rehabilitation Technology Department of Electrical and Computer Engineering, University of Missouri Columbia, MO, USA*

PAPER | Personalizing Energy Expenditure Estimation Using a Cardiorespiratory Fitness Predicate

Marco Altini and Julien Penders, *Holst Centre/imec, The Netherlands*
Oliver Amft, *ACTLab, Eindhoven University of Technology, Eindhoven, The Netherlands*

SHORT PAPER PRESENTATIONS | VENUE SALA TEATRO
16:00 – 17:00

SS-A: THERAPY AND REHABILITATION
SESSION CHAIR: TBD

SHORT PAPER | MyWalk: A Mobile App for Gait Asymmetry Rehabilitation in the Community

Tuck-Voon How, *University of Toronto*
Justin Chee, *University of Toronto*
Eric Wan, *University of Toronto*
Alex Mihailidis, *University of Toronto*

SHORT PAPER | Computerized-Eyewear Based Face Recognition System For Improving Social Lives of Prosopagnosics

Xi Wang, *University of Houston, USA*
Xi Zhao, *University of Houston, USA*
Varun Prakash, *University of Houston, USA*
Weidong Shi, *University of Houston, USA*
Omprakash Gnawali, *University of Houston, USA*

SHORT PAPER | A Research Platform using Active Local Cooling directed at Minimizing the Blood Flow in Human Fingers

Jan Steckel, *University of Antwerp*
Frank Goethijn, University of Antwerp
Guido De Bruyne, *University of Antwerp*
Vincent Nulens, *University of Antwerp*
Daniel Lacko, *University of Antwerp*
Samuel Bey, *University of Antwerp*
Stijn Verwulgen, *University of Antwerp*

SHORT PAPER | Adding Individual Patient Case Data to The Melanoma Targeted Therapy Advisor

Jovan Stevovic, *CRG - Centro Ricerche GPI, Italy*
Alban Maxhuni, *CREATE-NET, Italy*
Iman Khadhanifar, *University of Trento, Italy*
Jeff Shrager, *Stanford University, USA*
Gregorio Convertino, *Xerox Research Centre Europe, France*
Randy Gobbel, *Stanford University, USA*

SS-B: SUPPORTING THE ELDERLY
SESSION CHAIR:

SHORT PAPER | Supporting Reflection on Dementia Care using Proximity Sensors
Lars Müller, *FZI Forschungszentrum Informatik*
Mark Sonnentag*, FZI Forschungszentrum Informatik*
Stephan Heuer, *FZI Forschungszentrum Informatik*

SHORT PAPER | A Spoonful of Sugar: Understanding the Over-the-Counter Medication Needs and Practices of Older Adults
Aqueasha Martin, *Clemson University*
Jessica Jones, *Clemson University*
Juan Gilbert, *Clemson University*

SHORT PAPER | Sensor Monitoring in the Home: Giving Voice to Elderly People
Marije Kanis, *Amsterdam University of Applied Sciences, Netherlands*
Saskia Robben, *Amsterdam University of Applied Sciences, Netherlands*
Ben Kröse, *Amsterdam University of Applied Sciences, Netherlands*

SHORT PAPER | Dealing with Wandering in Institutional Care: Exploring the Field
Claudia Mueller, *University of Siegen, Germany*
Lin Wan, *University of Siegen, Germany*
Volker Wulf, *University of Siegen, Germany*

Tuesday, May 7, 2013

9:00 – 10:00
KEYNOTE TALK

CAN A DIET OF DATA MAKE YOU HEALTHY?

Yvonne Rogers
Professor of Interaction Design
UCLIC Director, Department of Computer Science
University College London, UK

Self-quantifying and self-tracking devices are becoming mainstream. Examples include FitBit, Wii games and an assortment of mobile apps (e.g. Boozerlyzer), that aim to give people new aggregate and profiled data about their behaviours and bodily functions to help them improve their sleep, moods and drinking habits. Real-time feedback about their everyday habits is provided through graphs and relative scores. The hope is that this form of personalised data will become the future for healthcare that focuses on monitoring and prevention. The Quantified Self movement has also attracted many followers worldwide who have started to record their patterns of activity levels (e.g. how many hours they sleep, how many cups of coffee they drink a day). But how healthy are they? In my talk I will consider how effective the new data diets are at changing and improving healthy behaviour.

About Yvonne Rogers

Yvonne Rogers is the director of the Interaction Centre at University College London and a professor of Interaction Design. She has been awarded a prestigious EPSRC dream fellowship to rethink the relationship between ageing, computing and creativity. She is passionate about designing computers to be engaging, exciting and even provocative. She is known for her visionary research agenda of user engagement in ubiquitous computing and has pioneered an approach to innovation and ubiquitous learning. Her current research focuses on behavioural change, through augmenting everyday, learning and collaborative work activities with interactive technologies. She has published over 200 articles, and is a co-author of the definitive textbook on Interaction Design that has sold over 150,000 copies worldwide and been translated into 6 languages.

S4: HEALTH PROFESSIONALS' NEEDS
SESSION CHAIR: Andrew T. Campbell, *Dartmouth College, USA*

PAPER | Visual Feedback on Nonverbal Communication: A Design Exploration with Healthcare Professionals
Rupa A. Patel, Andrea Hartzler, Wanda Pratt, Anthony Back, *University of Washington Seattle, Washington, USA*
Mary Czerwinski, Asta Roseway, *Microsoft Research, Redmond, Washington, USA*

PAPER | Interpreter-Mediated Physician-Patient Communication: Opportunities for Multimodal Healthcare Interfaces

Nadir Weibel, James D. Hollan, *Department of Computer Science and Engineering, University of California San Diego, La Jolla, CA 92093, USA*

Colleen Emmenegger, Jennifer Lyons, Ram Dixit*, Department of Cognitive Science, University of California San Diego, La Jolla, CA 92093, USA*

Linda L. Hill, *Department of Family and Preventive Medicine University of California San Diego, La Jolla, CA 92093, USA*

PAPER | Adaptive Daily Rhythm Atmospheres for Stroke Patients: A Staff Evaluation *(Best Paper candidate)*

Daemen E.M.L., Flinsenberg I.C.M., van Loenen E.J, Cuppen R.P.G., and Rajae-Joordens R.J.E., *Philips Research Philips Electronics Netherlands Eindhoven, Netherlands*

TECHNICAL PRESENTATIONS | VENUE SALA TEATRO
11:45 – 13:15

S5: SUPPORTING PATIENTS' NEEDS
SESSION CHAIR:

PAPER | Gaze-contingent audio-visual substitution for the blind and visually impaired

Lukas Twardon, Hendrik Koesling, Andrea Finke and Helge Ritter, *Center of Excellence Cognitive Interaction Technology - CITEC Bielefeld University Bielefeld, Germany*

PAPER | Accounting for Medication Particularities: Designing for Everyday Medication Management

Lea Gulstav Dalgaard, *Pervasive Healthcare, The Alexandra Institute Copenhagen, Denmark*

Erik Grönvall, Nervo Verdezoto, *Department of Computer Science Aarhus University Aarhus, Denmark*

PAPER | Findings of Mobile based Palliative Care System: Towards a Generic Framework for Measuring QoL

Md Haque, Md Adibuzzaman, Md Uddin, Ferdaus Kawsar, S. I. Ahamed*, Ubicomp Lab, Marquette University, WI, USA*

Richard Love, David Roe, *International Breast Cancer Research Foundation Madison, WI, USA*

Rumana Dowla, T. Ferdousy, Reza Salim, Syed Hossain. *AGBC Center Khulna, Bangladesh*

TECHNICAL PRESENTATIONS | VENUE SALA TEATRO
14:15 – 15:45

S6: MONITORING SLEEP AND AFFECT
SESSION CHAIR:

PAPER | Unobtrusive Sleep Monitoring Using Smartphones

Zhenyu Chen, Mu Lin, Fanglin Chen, Rui Wang, Tianxing Li, Andrew T. Campbell, *Dartmouth College, USA*

Nicholas D. Lane, *Microsoft Research Asia*

Giuseppe Cardone, *University of Bologna*

Yiqiang Chen*, Institute of Computing Technology, Chinese Academy of Sciences*

Tanzeem Choudhury, *Cornell University*

PAPER | Designing for Positive Health Affect: Decoupling Negative Emotion and Health Monitoring Technologies

Tammy Toscos, *School of Health and Human Services, Indiana University-Purdue University Fort Wayne, Indiana, US*

Kay Connelly, *School of Informatics, Indiana University Bloomington, Indiana, US*

Yvonne Rogers, *Interaction Centre (UCLIC) University College London, London, UK*

PAPER | Designing for Spectators and Coaches: Social Support in Pervasive Health Games for Youth
Erika Poole, *Information Sci. & Technology, The Pennsylvania State University University Park, PA USA*
Elsa Eiríksdóttir, *Reykjavik Academy, Reykjavik, Iceland*
Andrew Miller, Yan Xu, Elizabeth Mynatt, *College of Computing, Georgia Institute of Technology, Atlanta, GA USA*
Richard Catrambone, *School of Psychology, Georgia Institute of Technology, Atlanta, GA USA*

POSTERS AND DEMOS | VENUE ATRIO COLONNE
16:00 – 18:00

DOCTORAL COLLOQUIUM | VENUE SALA TEATRO
16:00 – 18:00

Wednesday, May 8, 2013

SS-C: FROM DATA CAPTURE TO DIAGNOSIS
SESSION CHAIR:

PAPER | A validation protocol for wearable sensors: theory and application for textile electrodes
Giuseppe Andreoni, Andrea Fanelli, Witkowska Izabela, Paolo Perego, Marcello Fusca, Marco Mazzola and Maria Gabriella Signorini, *Politecnico di Milano, Milano, Italy*

SHORT PAPER | Decision Support System for Detection of Diabetic Retinopathy Using Smartphones
Prateek Prasanna, *Rutgers University, USA*
Shubham Jain, *Rutgers University, USA*
Neelakshi Bhagat, *University of Medicine and Dentisty of New Jersey, USA*
Anant Madabhushi, *Case Western Reserve University, USA*

SHORT PAPER | Designing with Midwives: Improving Prenatal Care in Low Resource Regions
Abdullah Al Mahmud, *Delft University of Technology*
David Keyson, *Delft University of Technology*

S7: SELF-MONITORING
SESSION CHAIR:

PAPER | Enabling Self-Reflection with LifelogExplorer: Generating Simple Views from Complex Data
Rafał Kocielnik, Natalia Sidorova, *Eindhoven University of Technology, The Netherlands*
Fabrizio Maria Maggi, *University of Tartu Estonia*

PAPER | Embodied-Self-monitoring: Embracing the Context for Adherence to Physical Rehabilitation in the Design for Self-monitoring
Naveen Bagalkot, Srishti Labs, *Srishti School of Art, Design and Technology, Bangalore, India*
Tomas Sokoler, *Interaction Design Group, IT University of Copenhagen, Denmark*

PAPER | Towards Long Term Large Scale Visual Health Monitoring Using Cyber Glasses
Hoang Le, Thanh Dang, *School of Engineering and Computer Science, Washington State University Vancouver, Vancouver, Washington*
Feng Liu, *Department of Computer Science, Portland State University Portland, Oregon*

S8: PATIENTS AND PHYSICIANS
SESSION CHAIR:

PAPER | Co-designing Patient-centered Health Communication Tools for Cancer Care
Michael Gonzales and Laurel D. Riek, *Dept. of Computer Science and Engineering University of Notre Dame Notre Dame, IN*

PAPER | Care-giver Tailoring of IT-based Healthcare Services for Elderly at Home: A Field Test and its Results

Mohammad Zarifi Eslami, Alireza Zarghami, Marten van Sinderen, Roel Wieringa *Department of Electrical Engineering Mathematics and Computer Science University of Twente, The Netherlands*

PAPER | Identifying barriers in telesurgery by studying current team practices in robot-assisted surgery

Shirley A. Elprama, Katriina Kilpi, Pieter Duysburgh, An Jacobs, *iMinds-SMIT-Vrije Universiteit Brussel Brussels, Belgium*
Lotte Vermeulen, Jan van Looy, *iMinds-MICT-Universiteit Gent, Gent, Belgium*

SHORT PAPER PRESENTATIONS | VENUE SALA TEATRO
14:15 – 15:15

SS-D: IN-HOME MONITORING
SESSION CHAIR:

SHORT PAPER | ARAS Human Activity Datasets in Multiple Homes with Multiple Residents
Hande Alemdar, *Bogazici University*
Halil Ertan, *Bogazici University*
Ozlem Durmaz Incel, *Bogazici University*
Cem Ersoy, *Bogazici University*

SHORT PAPER | Feasibility of Using a Lightweight Context-Aware System for Facilitating Reliable Home Blood Pressure Self-Measurements
Karina Kusk, *Aarhus University, Denmark*
Troels Thylstrup, *Aarhus University, Denmark*
Ditte Bruus Nielsen, *Aarhus University, Denmark*
Jacob Jørvang, *Aarhus University, Denmark*
Christian Fischer Pedersen, *Aarhus University, Denmark*
Stefan Wagner, *Aarhus University, Denmark*

SHORT PAPER | CareStore Platform for Seamless Deployment of Ambient Assisted Living Applications and Devices
Stefan Wagner, *Aarhus University, Denmark*
Finn Overgaard Hansen, *Aarhus University, Denmark*
Christian Fischer Pedersen, *Aarhus University, Denmark*
Mukhtiar Memon, *Aarhus University, Denmark*
Femina Hassan Aysha, *Aarhus University, Denmark*
Morten Mathissen, *Sekoia ApS*
Claus Nielsen, *Sekoia ApS*
Ole Langvad Wessby, *Sekoia ApS*

SHORT PAPER | Longitudinal Residential Ambient Monitoring: Correlating Sensor Data to Functional Health Status
Saskia Robben, *Amsterdam University of Applied Sciences, Netherlands*
Ben Krose, *Amsterdam University of Applied Sciences, Netherlands*

SS-E: PERSONAL TRACKING AND MEASUREMENT
SESSION CHAIR:

SHORT PAPER | PVT-Touch: Adapting a Reaction Time Test for Touchscreen Devices
Matthew Kay, *University of Washington*
Kyle Rector, *University of Washington*
Sunny Consolvo, *University of Washington*
Benjamin Greenstein, *University of Washington*
Jacob Wobbrock, *University of Washington*
Nathaniel Watson, *University of Washington*
Julie Kientz, *University of Washington*

SHORT PAPER | CRNTC+: A smartphone-based sensor processing framework for prototyping personal healthcare applications
Gabriele Spina, *TU Eindhoven, Netherlands*
Frank Roberts, *TU Eindhoven, Netherlands*
Jens Weppner, *Embedded Intelligence TUKaiserslautern, Germany*
Paul Lukowicz, *Embedded Intelligence TUKaiserslautern, Germany*
Oliver Amft, *TU Eindhoven, Netherlands*

SHORT PAPER | Physical activity recognition via minimal in-shoes force sensor configuration
Christopher Moufawad El Achkar**,** *EPFL*
Fabien Massé, *EPFL*
Arash Arami, *EPFL*
Kamiar Aminian, *EPFL*

SHORT PAPER | Simplifying Mobile Phone Food Diaries
Adrienne Andrew, *University of Washington*
Gaetano Borriello, *University of Washington*
James Fogarty, *University of Washington*

POSTERS

Cancer Compass: Examining Personal Health Record Usage Among Breast Cancer Survivors
Maia Jacobs, *Georgia Institute of Technology, US*
James Clawson, *Georgia Institute of Technology, US*
Elizabeth Mynatt, *Georgia Institute of Technology, US*

Design and Verification of a Health-Monitoring Driver Assistance System
Helena Gruhn, *Technische Universität, Berlin, Germany*
Daniel Stöhr, *Technische Universität, Berlin, Germany*
Mehmet Gövercin, *Charité Universitätsmedizin, Berlin, Germany*
Sabine Glesner, *Technical University of Berlin, Germany*

DETACH: Authoring Digital Therapeutic Artefacts
Filipe Fernandes, *LaSIGE & Department of Informatics, University of Lisbon, Portugal*
Luís Duarte, *LaSIGE & Department of Informatics, University of Lisbon, Portugal*
Luis Carriço, *University of Lisbon, Portugal*

Identifying and measuring stressors present in pre-hospital care
Peter Kindness, *University of Aberdeen, United Kingdom*
Chris Mellish, *University of Aberdeen, United Kingdom*
Judith Masthoff, *University of Aberdeen, United Kingdom*

Make Me Move at Work! An Ambient Light Display to Increase Physical Activity
Jutta Fortmann, *University of Oldenburg, Germany*
Tim Stratmann, *University of Oldenburg, Germany*
Benjamin Poppinga, *OFFIS - Institute for Information Technology, Germany*
Susanne Boll, *University of Oldenburg, Germany*
Wilko Heuten, *OFFIS - Institute for Information Technology, Germany*

MANTRA: Mobile Anticoagulant Therapy Management
Barbara Rita Barricelli, *University of West London, United Kingdom*
Yanet Devis, *University of West London, United Kingdom*
Jose Abdelnour-Nocera, *University of West London, United Kingdom*
Jennie Wilson, *University of West London, United Kingdom*
John Moore, *University of West London, United Kingdom*

Multimodal Data Analysis and Visualization to Study Usability of Electronic Health Records
Nadir Weibel, *University of California San Diego, US*
Shazia Ashfaq, *HSRD VA San Diego Healthcare System, US*
Alan Calvitti, *HSRD VA San Diego Healthcare System, US*
Jim Hollan, *University of California San Diego, US*
Zia Agha, *HSRD VA San Diego Healthcare System, US*

MyReDiary Exploring the concepts of collaborative articulation, self-monitoring and social scaffolding for supporting adherence to physical rehabilitation
Jeppe Boutrup, *IT University of Copenhagen, Denmark*
Kenni Odelheim, *IT University of Copenhagen, Denmark*
Naveen Bagalkot, *Srishti Labs, Srishti School of Art, Design and Technology, India*
Tomas Sokoler, *IT University of Copenhagen, Denmark*

Opportunities for Blended Interaction in Emergency Medicine: Coupling Displays with Digital Pen Input

Diana Kusunoki, *Drexel University, US*
Aleksandra Sarcevic, *Drexel University, US*
Nadir Weibel, *University of California San Diego, US*
Randall Burd, *Children's National Medical Center, US*

The Role of the Enhanced Remote Control in Pervasive Healthcare in the Home

Adam Bujnowski, *Gdansk University of Technology, Poland*
Jacek Ruminski, *Gdansk University of Technology, Poland*
Arkadiusz Palinski, *Gdansk University of Technology, Poland*
Jerzy Wtorek, *Gdansk University of Technology, Poland*

Spokespersons, negotiators and actuators. The invisible workers of pervasive healthcare

Enrico Maria Piras, *Fondazione Bruno Kessler, Italy*
Alberto Zanutto, *Facoltà di Sociologia di Trento, Italy*

Supporting situational awareness through a patient overview screen for Bipolar Disorder treatment

Mads Frost, *University of Copenhagen, Denmark*
Silvia Gabrielli, *CREATE-NET, Italy*

Understanding the Needs of Low SES Patients with Type 2 Diabetes

Priscilla Barnes, *Indiana University, US*
Kelly Caine, *Clemson University, US*
Kay Connelly, *Indiana University, US*
Katie Siek, *University of Colorado, US*

FEEDBACK?

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