

Nabil Alshurafa (U.S. Citizen)

CONTACT INFORMATION	3256N Boelter Hall Computer Science Department University of California, Los Angeles Los Angeles, CA 90095 USA	<i>Office:</i> (310) 794-5616 <i>Cell:</i> (805) 405-9821 <i>E-mail:</i> nabil@cs.ucla.edu <i>Page:</i> www.cs.ucla.edu/~nabil/
RESEARCH INTERESTS	Wireless Health, Data Analytics, Embedded Systems, Body Sensor Networks, Digital Logic Design, Remote Health Monitoring, Human-Computer Interaction, Mobile Health, Exergaming.	
RELATED AREAS	Ubiquitous Computing, Smart & Pervasive Health, Data Mining, Algorithm Design, Image and Signal Processing, Machine Learning, Artificial Intelligence, Convex Optimization.	
EMPLOYMENT	UCLA Wireless Health Institute , Los Angeles Research Manager, Computer Science Department, September 2013 - present WearSens , San Jose Director Engineering, June 2013 - present Oxnard Charter College , Oxnard Adjunct Faculty, December 2010 - September 2011 U.S. Defense Industry: Toyon Research Corporation , Santa Barbara Research Scientist & Project Manager, March 2003 - January 2011	
EDUCATION	University of California, Los Angeles , California Ph.D, Computer Science, 2015 (Expected) University of California, Los Angeles , California M.S., Computer Science, 2010 University of California, Los Angeles , California B.S., Computer Science, 2003	
DISTINCTION AND HIGHLIGHTS	<ul style="list-style-type: none">• PI: Phase-I Army SBIR, "Intelligent Agent Technologies for Homeland Defense" \$120K, 2004• PI: Phase-II Army SBIR, "Agents in Decision Aiding Systems (AIDA Systems)" \$730K, 2006• Contributed to over \$10.5M of funded proposals in Wireless Health• Led technology development and UCLA Medical Internal Review Board (IRB) approval in 10 clinical trials involving over 2000 patients• Co-Writer (90%) NSF-Air Technology grant, "Non-invasive Monitoring Nutrition Necklace: NIMON Necklace" \$150K, 2013 - Present• Best Paper Award, IEEE Conf. on Wearable and Implantable Body Sensor Networks, 2013• NSF Doctoral Consortium Scholarship, International Conference on Pervasive Technologies Related to Assistive Environments, 2013• NSF Doctoral Travel Award, ACM Conference on Wireless Health, 2014	

- Organized, Contributed and Presented to an mHealth Boot Camp with Dr. Vickie M. Mays and Dr. Shoptaw who are both Directors of the BRITE Center for Minority Health Disparities, 2014
- Collaborated with more than 30 faculty members across 12 universities (2010 - Present)
- Mentored/supervised more than 60 undergraduate and graduate students (2012 - Present)
- Certified Post-Secondary Instructor (CPI)
- Toyon Research Corporation Scholarship, 2004 - 2010
- Regents Scholarship & Malouf Alumni Scholarship, UCLA, 2000 - 2003
- National AP Scholar Award, 2003
- TOP Secret Clearance

COLLABORATORS IN
ACADEMIA

- **University of California, Los Angeles:** Prof. Majid Sarrafzadeh (CS), Prof. Mario Gerla (CS), Prof. Stott Parker (CS), Prof. Michael Dyer (CS), Prof. Jo-Ann Eastwood (Nursing), Prof. Adey Nyamathi (Nursing), Prof. Michael Ong (Internal Medicine), Prof. William McCarthy (Psychology and Nutrition), Prof. Paul Macy (Nursing), Prof. Catherine Carpenter (Epidemiology), Prof. Barbara Bates-Jensen (Nursing), Prof. Christian K. Roberts (Exercise & Metabolic Disease), Mary-Lynn Brecht (Statistics), Prof. Vickie M. Mays (Psychology), Dr. Steven Shoptaw (Physician)
- **University of California San Francisco:** Prof. Chanda Ho (Dept. of Medicine)
- **Azusa Pacific University:** Prof. Aurelia Macabasco-O'Connell (Nursing)
- **Washington State University:** Prof. Hassan Ghasemzadeh (CSEE)
- **Buffalo State University of New York (SUNY):** Wenyao Xu (CSEE)
- **Case Western Research University:** Ming-Chun Huang

JOURNAL ARTICLES

- J11. **Nabil Alshurafa**, Jo-Ann Eastwood, Mohammad Pourhomayoun, Costas Sideris, Majid Sarrafzadeh “*Designing Physical Activity Cheater Models for Remote Health Monitoring of a Congestive Heart Failure Study*”, ACM Transaction on Embedded Computing Systems (**TECS**) **Pending**
- J10. **Nabil Alshurafa**, Jo-Ann Eastwood, Mohammad Pourhomayoun, Costas Sideris, Majid Sarrafzadeh “*Predicting Participant Success of a Remote Health Monitoring System*”, IEEE Journal of Biomedical and Health Informatics (**J-BHI**) **Pending**
- J9. Costas Sideris, **Nabil Alshurafa**, Behnam Shahbazi, Mohammad Pourhomayoun, Majid Sarrafzadeh “*Validating Severity of Condition Prediction Model built from Electronic Health Records on Remote Health Monitoring Patients*”, Elsevier Pervasive and Mobile Computing Journal (**PMC**) **Pending**
- J8. Haik Kalantarian, **Nabil Alshurafa**, Mohammad Pourhomayoun, Bobak Mortazavi, Shruti Sarin, Majid Sarrafzadeh, “*Non-Invasive Detection and Classification of Nutrition Intake using Audio Spectrograms*”, ACM Transaction on Embedded Computing Systems (**TECS**) **Pending**
- J7. **Nabil Alshurafa**, Haik Kalantarian, Mohammad Pourhomayoun, Bobak Mortazavi, Shruti Sarin, Jason J. Liu, Majid Sarrafzadeh, “*A Wearable Piezoelectric Sensor for Recognition of Nutrition-Intake using Spectrogram Analysis*”, IEEE Sensors Journal (**SJ**) **Pending**
- J6. Haik Kalantarian, **Nabil Alshurafa**, Tuan Le, Majid Sarrafzadeh, “*Monitoring Eating Habits using a Piezoelectric Sensor-Based Necklace*”, Elsevier Computers in Biology and Medicine Journal (**CBM**)

- J5. Jason J. Liu, Ming-Chun Huang, Wenyao Xu, Xiaoyi Zhang, Luke Stevens, **Nabil Alshurafa**, Majid Sarrafzadeh, “*BreathSens: A Continuous On-Bed Respiratory Monitoring System with Torso Localization using an Unobtrusive Pressure Sensing Array*”, To appear IEEE Journal of Biomedical and Health Informatics (**J-BHI**)
- J4. **Nabil Alshurafa**, Jo-Ann Eastwood, Suneil Nyamathi, Jason J. Liu, Wenyao Xu, Hassan Ghasemzadeh, Mohammad Pourhomayoun, Majid Sarrafzadeh, “*Improving Compliance in a Remote Health Monitoring System through Smartphone Battery Optimization*”, IEEE Journal of Biomedical and Health Informatics (**J-BHI**), Volume 19, Number 1, January 2015, Pages 57-63
- J3. **Nabil Alshurafa**, Wenyao Xu, Jason J. Liu, Ming-Chun Huang, Bobak Jack Mortazavi, Majid Sarrafzadeh, “*Designing a Robust Activity Recognition Framework for Health and Exergaming using Wearable Sensors*”, IEEE Journal of Biomedical and Health Informatics (**J-BHI**), Volume 18, Number 5, September 2014, Pages 1636-1646
- J2. Jason J. Liu, Wenyao Xu, Ming-Chun Huang, **Nabil Alshurafa**, Majid Sarrafzadeh, Nitin Raut, Behrooz Yadegar, “*Sleep Posture Analysis using a Dense Pressure Sensitive Bedsheet*”, Elsevier Pervasive and Mobile Computing Journal (**PMC**), Volume 10, Issue 2, February 2014, Pages 34 - 50
- J1. Ming-Chun Huang, Jason J. Liu, Wenyao Xu, **Nabil Alshurafa**, Majid Sarrafzadeh, “*Using Pressure Map Sequences for Recognition of On Bed Rehabilitation Exercises*”, IEEE Journal of Biomedical and Health Informatics (**J-BHI**), Volume 18, Number 2, March 2014, Pages 411 - 418

CONFERENCE
PAPERS

- C27. Haik Kalantarian, **Nabil Alshurafa**, Tuan Le, Majid Sarrafzadeh, “*Non-Invasive Detection of Medication Adherence using a Digital Smart Necklace*”, Smart Environments: IEEE International Conference on Pervasive Computing and Communication (**PerCom’13**), St. Louis, MI, USA, March 2015 **Pending**
- C26. Haik Kalantarian, **Nabil Alshurafa**, Mohammad Pourhomayoun, Majid Sarrafzadeh, “*Power Optimization for a Wearable Real-Time Dietary Intake Monitor*”, IEEE International Conference on Pervasive Computing and Communication (**PerCom’13**), St. Louis, MI, USA, March 2015 **Pending**
- C25. Jo-Ann Eastwood, **Nabil Alshurafa**, Joy Toyoma, Debra K. Moser, “*Heart to Heart Connections Benefit Behavior Change*”, American Heart Association EPI Lifestyle (**AHA’15**), Baltimore, MD, March 2015
- C24. Chanda Ho, Neil Shah, **Nabil Alshurafa**, Behnam Shahbazi, Hassan Ghasemzadeh, Norah Terrault, “*Beyond Dr. Google: Early Results of a Personalized Weight-Tracking Smartphone Application and Alert System for Patients with Ascites*”, 65th Annual Meeting of the American Association for the Study of Liver Disease, (**AASLD’14**), November 2014
- C23. Jo-Ann Eastwood, **Nabil Alshurafa**, Debra K. Moser, Lynn Doering, Majid Sarrafzadeh, Karol Watson, “*Staying Connected: A CVD Risk Intervention for Young Black Women*”, American Heart Association (**AHA’14**), Chicago, IL, November 2014
- C22. **Nabil Alshurafa**, Jo-Ann Eastwood, Mohammad Pourhomayoun, Jason J. Liu, Suneil Nyamathi, Runhang Li, Majid Sarrafzadeh, “*A Framework for Predicting Adherence in Remote Health Monitoring Systems*”, ACM Conference on Wireless Health (**WH’14**), Bethesda, MD, USA, October 2014
- C21. **Nabil Alshurafa**, Haik Kalantarian, Mohammad Pourhomayoun, Jason J. Liu, Shruti Sarin, Majid Sarrafzadeh, “*Non-Invasive Monitoring of Eating Behavior using Spectrogram Analysis in a Wearable Necklace*”, IEEE EMBS Conference on Healthcare Innovation & Point-of-Care Healthcare Technologies (**PHT’14**), Seattle, WA, USA, October 2014

- C20. Bobak Mortazavi, Mohammad Pourhomayoun, **Nabil Alshurafa**, Mike Chronley, Sunghoon Ivan Lee, Christian K. Roberts, and Majid Sarrafzadeh, “*Support Vector Regression for METs of Exergaming Actions*”, IEEE EMBS Conference on Healthcare Innovation & Point-of-Care Healthcare Technologies (**PHT’14**), Seattle, WA, USA, October 2014
- C19. Mohammad Pourhomayoun, **Nabil Alshurafa**, Bobak Mortazavi, Hassan Ghasemzadeh, and Majid Sarrafzadeh, “*Multiple Model Analytics for Adverse Event Prediction in Remote Health Monitoring Systems*”, IEEE EMBS Conference on Healthcare Innovation & Point-of-Care Healthcare Technologies (**PHT’14**), Seattle, WA, USA, October 2014
- C18. Haik Kalantarian, **Nabil Alshurafa**, Mohammad Pourhomayoun, Shruti Sarin, Majid Sarrafzadeh, “*Spectrogram-Based Audio Classification of Nutrition Intake*”, IEEE EMBS Conference on Healthcare Innovation & Point-of-Care Healthcare Technologies (**PHT’14**), Seattle, WA, USA, October 2014
- C17. **Nabil Alshurafa**, Jo-Ann Eastwood, Mohammad Pourhomayoun, Suneil Nyamathi, Jason J. Liu, Wenyao Xu, Hassan Ghasemzadeh, Majid Sarrafzadeh, “*Remote Health Monitoring: Predicting Outcome Success based on Contextual Features*”, 36th Annual Conference of the IEEE Engineering in Medicine and Biology Society (**EMBC’14**), Chicago, IL, USA, August 2014
- C16. Costas Sideris, **Nabil Alshurafa**, Behnam Shahbazi, Majid Sarrafzadeh, Mohammad Pourhomayoun, “*Using Electronic Health Records to Predict Severity of Condition for Congestive Heart Failure Patients*”, ACM International Joint Conference on Pervasive and Ubiquitous Computing (**Ubicomp’14**), Seattle, WA, USA, September 2014
- C15. Haik Kalantarian, **Nabil Alshurafa**, Mohammad Pourhomayoun, Majid Sarrafzadeh, “*A Wearable Nutrition Monitoring System*”, IEEE International Conference on Implantable and Wearable Body Sensor Networks (**BSN’14**), Zurich, Switzerland, June 2014
- C14. **Nabil Alshurafa**, Jo-Ann Eastwood, Mohammad Pourhomayoun, Suneil Nyamathi, Lily Bao, Bobak Mortazavi, Majid Sarrafzadeh, “*Anti-Cheating: Detecting Self-Inflicted and Impersonator Cheaters for Remote Health Monitoring Systems with Wearable Sensors*”, IEEE International Conference on Implantable and Wearable Body Sensor Networks (**BSN’14**), Zurich, Switzerland, June 2014
- C13. Bobak Mortazavi, Mohammad Pourhomayoun, **Nabil Alshurafa**, Majid Sarrafzadeh, “*Determining the Single Best Axis for Exercise Repetition Recognition and Counting with Smart-Watches*”, IEEE International Conference on Implantable and Wearable Body Sensor Networks (**BSN’14**), Zurich, Switzerland, June 2014
- C12. **Nabil Alshurafa**, JoAnn Eastwood, Suneil Nyamathi, Wenyao Xu, Jason J. Liu, Majid Sarrafzadeh, “*Battery Optimization in Smartphones for Remote Health Monitoring Systems to Enhance User Adherence*”, International Conference on Pervasive Technologies Related to Assistive Environments (**PETRA’14**), Rhodes Island, Greece, May 2014
- C11. Sunghoon Ivan Lee, Hassan Ghasemzadeh, Bobak Mortazavi, Mars Lan, **Nabil Alshurafa**, Michael Ong, Majid Sarrafzadeh, “*Remote Monitoring Systems: What Impact Can Data Analytics Have On Cost?*”, ACM Conference on Wireless Health (**WH’13**), Baltimore, MD, USA, November 2013
- C10. Bobak Mortazavi, **Nabil Alshurafa**, Sunghoon Ivan Lee, Mars Lan, Majid Sarrafzadeh, Michael Chronley, Christian K. Roberts, “*Met Calculations from On-body Accelerometers for Exergaming Movements*”, IEEE International Conference on Implantable and Wearable Body Sensor Networks (**BSN’13**), Boston, MA, USA, May 2013
- C9. Jason J. Liu, Ming-Chun Huang, Wenyao Xu, **Nabil Alshurafa**, Majid Sarrafzadeh, “*On-bed Monitoring for Range of Motion Exercises with a Pressure Sensitive Bedsheet*”, IEEE International Conference on Implantable and Wearable Body Sensor Networks (**BSN’13**), Boston, MA, USA, May 2013

- C8. **Nabil Alshurafa**, Wenyao Xu, Jason J. Liu, Ming-Chun Huang, Bobak Mortazavi, Christian Roberts, Majid Sarrafzadeh, "Robust Human Intensity-Varying Activity Recognition using Stochastic Approximation in Wearable Sensors", IEEE International Conference on Implantable and Wearable Body Sensor Networks (**BSN'13**), Boston, MA, USA, May 2013
- C7. Mahsan Rofouei, Mohammad Ali Ghodrat, Yiran Huang, **Nabil Alshurafa**, Majid Sarrafzadeh, "Improving Accuracy in E-Textiles as a Platform for Pervasive Sensing", IEEE International Conference on Implantable and Wearable Body Sensor Networks (**BSN'13**), Boston, MA, USA, May 2013
- C6. Jason Liu, Wenyao Xu, Ming-Chun Huang, **Nabil Alshurafa**, Majid Sarrafzadeh, "A Dense Pressure Sensitive Bedsheet Design for Unobtrusive Sleep Posture Monitoring", IEEE International Conference on Pervasive Computing and Communication (**PerCom'13**), San Diego, CA, USA, March 2013
- C5. Ming-Chun Huang, Wenyao Xu, Jason Liu, Lauren Samy, Amir Vajid, **Nabil Alshurafa**, Majid Sarrafzadeh, "Inconspicuous on-Bed Respiratory Rate Monitoring", International Conference on Pervasive Technologies Related to Assistive Environments (**PETRA'13**), Rhodes Island, Greece, May 2013
- C4. Myung-Kyung Suh, Jonathan Woodbridge, Tannaz Moin, Mars Lan, **Nabil Alshurafa**, Lauren Samy, Hassan Ghasemzadeh, Alex Bui, Sheila Ahmadi, Majid Sarrafzadeh, "Dynamic Task Optimization in Remote Diabetes Monitoring Systems", IEEE Healthcare Informatics, Imaging and Systems Biology (**HISB'12**), La Jolla, CA, USA, September 2012
- C3. Francesco Fraternali, Mahsan Rofouei, **Nabil Alshurafa**, Hassan Ghasemzadeh, Majid Sarrafzadeh, "Opportunistic Hierarchical Classification for Power Optimization in Wearable Movement Monitoring Systems", IEEE International Symposium on Industrial Embedded Systems (**SIES'12**), Karlsruhe, Germany, June 2012
- C2. Mars Lan, Lauren Samy, **Nabil Alshurafa**, Myung-Kyung Suh, Hassan Ghasemzadeh, Aurlia Macabasco-O'Connell, Majid Sarrafzadeh, "WANDA: An end-to-end remote health monitoring and analytics system for heart failure patients", ACM Conference on Wireless Health (**WH'12**), San Diego, CA, USA, October 2012
- C1. **Nabil Alshurafa** and Justin Harmon, "Artificial Spider: Eight-legged Insect and Autonomous Learning of Locomotion", International Society for Optics and Photonics (**SPIE'06**), Orlando, FL, USA, May 2006

PATENTS AND
COPYRIGHTS

- P5. **International Patent:** PCT/US2014/037887: "Non-invasive Nutrition Monitor", 2014
- P4. **International Patent:** PCT/US2014/037887: "Context-Aware Prediction in Medical Systems", 2014
- P3. **US Provisional Patent:** UCLA Case No. 2015-108: "Non-invasive System for Classification of Individual's Intake", 2014
- P2. **Copyright:** UCLA Case No. 2014-399-1: "Mobile Exercise Algorithm", 2014
- P1. **US Provisional Patent:** 61/949,179: "Wearable Nutrition Monitoring System", 2014

INVITED TALKS AND
WORKSHOPS

- T8. Panelist: Invited Panelist at the Consumer Electronics Show (CES) on Wearables, UCLA Anderson School of Management, Los Angeles, CA, January 8, 2015
- T7. Bootcamp: BRITE Center for Minority Healthy Disparities Solutions: "What is Wireless Health: Using Wireless Technology to Monitor Behaviors and Risk Factors in Diabetes and CVD", LakeArrowhead, Los Angeles, CA, September 7, 2014
- T6. Workshop on Big Data Analytics and Remote Health Monitoring: "Wanda: A Remote Health Monitoring System for Cardiovascular Disease Monitoring", UCLA Computer Science Department Boelter Hall, Los Angeles, CA, March 18, 2014

- T5. Workshop: "International Workshop on Automated Sensor Based Mobility Analysis for Disease Prevention and Treatment", ETH, Zurich, Switzerland, June 17, 2013
- T4. Workshop: "Challenges of a Remote Health Monitoring System for Cardiac Risk Reduction", MIT Media Lab, Cambridge, MA, May 8, 2013
- T3. "Clinical Trials in Wireless Health", UCLA Computer Science Department Boelter Hall, Los Angeles, CA, June 4, 2013
- T2. "Remote Health Monitoring for Cardiovascular Disease Management", UCLA Computer Science Department Boelter Hall, Los Angeles, CA, April 2, 2013
- T1. "Wireless Health and Childhood Obesity", UCLA Center for Health Sciences, Los Angeles, CA, March 13th, 2012

HARDWARE DONATIONS

- Digilent Inc., FPGA Boards, equivalent to \$8,000, 2013
- Texas Instruments, CC2540 and DAQ Development Boards, equivalent to \$18,000, 2013

SELECTED PUBLIC MEDIA REPORTS

- "*UCLA-backed m-health project aids at-risk women using fitness app*", LA Times, December 5th, 2014
- "*UCLA Students Helping Mobility Impaired to Move the World*", the New Medial Journal, February 26, 2011
- "*Cultivating Innovation*", Alaska Airlines Magazine, January 2011
- "*UC-Supported start-ups gain foothold despite recession*", Today News, April 27, 2010

INVOLVEMENT IN CLINICAL TRIALS

- Cardiovascular Disease Risk Management [90 Patients] (07/2012 - Present)
- Congestive Heart Failure [1500 Patients] (01/2011 - 03/2014)
- AIDs (U.S. & India) [500 Patients] (06/2014 - Present)
- Sleep Apnea [30 Patients] (11/2012 - Present)
- Smoking Cessation [240 Patients] (05/2014 - Present)
- Liver Disease [11 Patients] (07/2013 - Present)

COMMERCIALIZATION

- **Non-Invasive Nutrition Necklace:**
Invented, designed and executed a system that aids in non-invasively detecting eating patterns using a wearable necklace. Currently working on developing prototype and algorithms for research and commercialization. A company named WearSens has been established based on this innovation.
- **Samsung Galaxy Gear & Focus Fitness App:**
Designed algorithms and a GUI for automating the detection of exercises such as: push-ups, crunches, jumping jacks, lunges, squats, dips, etc. (Android app and system currently in the market).
- **WANDA:**
Designed and developed a unique Remote Health Monitoring System named Wanda that performs real-time segmentation, feature extraction, and classification along with regressions to provide feedback to nurses and heart failure patients. A company named Wanda Inc. has been established based off our research.
- **Smoking Cessation (UCLA & BRITE Center):**
In collaboration with the UCLA BRITE Center we designed a culturally sensitive app that aids individuals to stop smoking. This app is connected to our Wanda remote health monitoring system. We are currently testing the app on Korean youth in Los Angeles. We are currently in discussions with LA County to begin deployment of the app in other minority groups.

- **Smart bedsheet:**
Designed algorithms and a smart bedsheet that can be used in hospitals to help prevent pressure ulcers. A company named MediSens Inc. is currently licensing the technology.

TEACHING
EXPERIENCE

- **University of California, Los Angeles:**
CS180 Algorithms & Complexity Lecturer, 2013
CS180 Algorithms & Complexity Teaching Assistant 2012 - 2013
CS152A Introduction to Digital Design Lab 2012 - 2014

- **Oxnard Charter College:**
Mathematics & Computer Science 2010 - 2011

MENTORING &
ADVISING

- **University of California, Los Angeles:**
I have mentored over 20 graduate/undergraduate students at UCLA, guiding them in many research challenges from design and development of algorithms and software for wireless health technologies, to smartphone application designs and research papers. Some have gone off to perform research and development in industry, while others remained in Academia. The following is a partial list of students and their current positions:

Ojash Neopane, Student Researcher, UCSD

Nan Xiaomeng, Ph.D. Student, UCLA

Krithika Chandramouli, Software Engineer, Cisco

Shruti Sarin, Software Engineer, Google

Feng Wendy Gao, Software Integration and Test Engineer, Qualcomm

Kim Swennen, Software Engineer, Google

Francesco Fraternali, Research Consultant, CINECA Italy

- **Oxnard Charter College:**
I was a member of the faculty at Oxnard Charter College and mentored over 40 students in their education and career goals both in Mathematics and Computer Science.

SERVICES

- **Technical Program Committee:**
ACM UbiComp International Workshop on Smart Health Systems (SmartHealthSys 2014)

- **Reviewer for Journals:**
IEEE Sensors Journal (**SJ**)
IEEE Journal of Biomedical Health Informatics (**J-BHI**)
IEEE Internet of Things Journal (**IoT**)
ELSEVIER Computers in Biology and Medicine (**CMB**)
Journal of Electrical Engineering (David Publishing) (**JEE**)

- **Reviewer for Conferences:**
IEEE International Conference on Body Sensor Networks (**BSN**) 2012, 2013, 2014
IEEE Engineering in Medicine and Biology Society (**EMBC**) 2013, 2014
ACM Wireless Health (**WH**) 2012, 2013, 2014
IADIS International Conference on E-Health (**eHealth**) 2013, 2014
International Conference on Pervasive Technologies for Assistive Environments (**PETRA**) 2012, 2013, 2014

REFERENCES

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