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Flexible Privacy and Trust Based Context-Aware Secure Framework -- Security, Privacy, and Dependability in Smart Homes: A Pattern Catalog Approach -- A Taxonomy Driven Approach towards Evaluating Pervasive Computing System -- A Robotic System for Home Security Enhancement -- Why Is My Home Not Smart? -- Augmented Photoframe for Interactive Smart Space -- Health Telematics and Healthcare Technology -- Unobtrusive Sleep Posture Detection for Elder-Care in Smart Home -- Context-Aware Personal Diet Suggestion System -- Multimodal Situational Awareness for Eldercare -- Mobile Personal Health Care System for Patients with Diabetes -- Estimation of Instantaneous Bandwidth and Reconstruction of Noisy ECG Signal Measured by a 24- Hour Continuous Healthcare System for the Elderly and People with Disabilities -- Changing ICT for Client/Patient Management and Clinical Information in Residential and Community Aged Care Services in Regional Australia: Structured Interviews with Service Managers -- An Action-Based Behavior Model for Persuasive Telehealth -- Real-Time Monitoring of Potential Effects of Neuroprotection by Acupuncture in Global Ischemic Model of Hyperglycemic Rats -- Interactive Web-Phone Technology to Support and Optimize Care Plans for Aging and People with Disabilities -- Aging Friendly and Enabling Technology -- Use Cases for Abnormal Behaviour Detection in Smart Homes -- Design of Novel Feeding Robot for Korean Food -- Mild Dementia Care at Home – Integrating Activity Monitoring, User Interface Plasticity and Scenario Verification -- Behavior-Based Needs of Older Adults Concerning Aging-Friendly Digital Home Applications Using a Web-Based Survey -- Object Recognition and Ontology for Manipulation with an Assistant Robot -- Abnormality Detection for Improving Elder's Daily Life Independent -- AAL 4 ALL – A Matter of User Experience -- Creating Digital Life Stories through Activity Recognition with Image Filtering -- Vowel Formant Characterization of Jaw Movements and Tongue Displacement for Possible Use in the Articulation Training Support System for the Hearing Impaired -- Short Papers -- Requirements for the Deployment of Sensor Based Recognition Systems for Ambient Assistive Living -- 3D Matching applied ICP Algorithm for 3D Facial Avatar Modeling Using Stereo Camera -- System for Tracking Human Position by Multiple Laser Range Finders Deployed in Existing Home Environment -- Implementation of Daily Activity Management Service System with Smart Grid -- Gesture-Based Interface Using Baby Signs for the Elderly and People with Mobility Impairment in a Smart House Environment -- Quantitative Approach of Remote Accessibility Assessment System (RAAS) in Telerehabilitation -- Indoor and Outdoor Localization Architecture for Pervasive Environment -- Undernutrition Prevention for Disabled and Elderly People in Smart Home with Bayesian Networks and RFID Sensors -- A Platform for a More Widespread Adoption of AAL -- A Guideline-Driven Platform for Healthcare Services in Smart Home Environments -- Virtual MIMO Based Wireless Communication for Remote Medical Condition Monitoring -- HealthQuest: Technology That Encourages Physical Activity in the Workplace -- A Reliable Fall Detection System Based on Wearable Sensor and Signal Magnitude Area for Elderly Residents.

Sommario/riassunto

We are living in a world full of innovations for the elderly and people with special needs to use smart assistive technologies and smart homes to more easily perform activities of daily living, to continue in social participation, to engage in entertainment and leisure activities, and to enjoy living independently. These innovations are inspired by new technologies leveraging all aspects of ambient and pervasive intel-gence with related theories, technologies, methods, applications, and

services on ub- uitous, pervasive, AmI, universal, mobile, embedded, wearable, augmented, invisible, hidden, context-aware, calm, amorphous, sentient, proactive, post–PC, everyday, autonomic computing from the engineering, business and organizational perspectives. In the field of smart homes and health telematics, significant research is underway to enable aging and disabled people to use smart assistive technologies and smart homes to foster independent living and to offer them an enhanced quality of life. A smart home is a vision of the future where computers and computing devices will be available naturally and unobtrusively anywhere, anytime, and by different means in our daily living, working, learning, business, and infotainment environments. Such a vision opens tremendous opportunities for numerous novel services/applications that are more immersive, more intelligent, and more interactive in both real and cyber spaces.