
Mi Band 2 Xiaomi

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Smart Objects and Technologies for Social Good
A Primer for the 21st Century
Patient Functional Ability Improves Following Total Knee Arthroplasty But Pre-Operative Activity Pattern Remains
Bit in Wonderland: Coding & Craft with the BBC Micro:bit (microbit)
Effective UX for Current and Future Devices
CHIP. Журнал информационных технологий
Emerging Research in Data Engineering Systems and Computer Communications Internet of Things, Infrastructures and Mobile Applications
Third International Conference, GOODTECHS 2017, Pisa, Italy, November 29-30, 2017, Proceedings
7th EAI International Conference, GOODTECHS 2021, Virtual Event, September 15-17, 2021, Proceedings
Intelligent Environments 2019
Entrepreneurship in the Asia-Pacific: Case Studies
Micro
13th EAI International Conference on Body Area Networks
Новые проекты Arduino: здоровье, спорт, окружающая среда
9th EAI International Conference, MobiHealth 2020, Virtual Event, November 19, 2020, Proceedings

PAMELA PHELPS

SMART OBJECTS AND TECHNOLOGIES FOR SOCIAL GOOD

Springer

Adults in Hong Kong show relatively low participation in physical activity. In the wake of technological advancements, it has become necessary to promote physical activity in an innovative approach. To that end, this study aimed to investigate the effect of an application of Social Cognitive Theory (SCT) under an eight-week electronic activity monitor system (EAMS)-based intervention on changes in physical activity (PA) as well as its associated SCT constructs of self-efficacy, social support and self-regulation for working adults in Hong Kong. A series of studies were performed: Study 1: In order to assess the validity of the step count output of two popular electronic activity monitor system (EAMS) model, Fitbit Charge HR and Xiaomi Mi Band 2, healthy adult (N=30) worn both EAMS and walked at five predetermined speeds on a treadmill. Two-factor (step x speed) repeated measures ANOVAs was performed to compare the output of devices with manual step count. Result: there was no significant mean difference ($p > 0.05$) in step count among the Fitbit Charge HR and Mi Band 2 activity monitors and the criterion in all treadmill speeds. Both of them are valid devices for step count in the laboratory setting.

Study 2: As to assess the validity of step measurement of Mi Band 2 in the free-living environment, 31 healthy adults were invited for wearing both Mi Band 2 and ActiGraph GT9X Link on their dominant hands wrist for 7 consecutive days. Paired sample t-tests and Pearson correlation were conducted to compare the average steps per day between Mi Band 2 and ActiGraph GT9X Link. Result: there was no significant mean difference ($p > 0.05$) and high positive correlation in step count between the Mi Band 2 and Actigraph. The Mi Band 2 is a valid device for step count in the free-living environment. Study 3: To examine the validity and reliability of the Chinese version of PA related self-efficacy, self-regulation and social support in Hong Kong Chinese adults. There were 230 healthy adults aged 19-63 years recruited. The factorial validity of the scales was assessed by the Confirmatory Factor Analyses (CFA) while criterion validity was assessed by correlating measured constructs with self-reported PA. The internal consistency and scales test-retest reliability were evaluated by Cronbach's alpha and intraclass correlation coefficient, respectively. Result: indicators of CFA supported the one-factor structure while all PA correlates were significant ($p < 0.05$).
A Primer for the 21st Century MDPI
Chip (Чип) – первый компьютерный журнал в Европе. Издается в 16 странах Европы и Азии тиражом более 1 миллиона экземпляров. Журнал Chip в России – это высочайшее качество в освещении таких тем, как аудио-, видео- и фототехника, компьютеры,

программное обеспечение, Интернет, современные технологии телекоммуникаций и развлечений. Профессиональная тестовая лаборатория для самого широкого спектра цифровой техники. (DVD прилагается только к печатному изданию.) В номере: Долгожданная семерка Результаты тестирования смартфонов Apple iPhone 7 и iPhone 7 Plus, умных часов Watch Series 2 Цифровая агрессия Откуда произрастает сетевая ненависть и как не стать жертвой троллинга NFC терпит неудачу? Почему NFC до сих пор не получила признания на рынке бесконтактных платежей Лучшие гаджеты этого года Большой сводный тест новых моделей смартфонов, планшетов, умных часов и фитнес-трекеров Умный быт с помощью приложений Обзор мобильных приложений для управления системами умного дома С Apple дорожке? Действительно ли онлайн-магазины показывают разные цены пользователям и от чего это зависит? и многое другое

Patient Functional Ability Improves Following Total Knee Arthroplasty But Pre-Operative Activity Pattern Remains Springer

Wer glaubt, dass es für 20 Euro kein anständiges Sportarmband geben kann, wird von Xiaomi eines Besseren belehrt. Doch das Mi Band ist weitaus mehr als ein schnöder Fitness-Tracker. Zusätzlich kann es Ihre Schlafphasen überwachen, Sie zum optimalen Zeitpunkt wecken, Ihr Handy entsperren und bei eingehenden Anrufen oder Nachrichten vibrieren. Dieses Handbuch erklärt detailliert die Funktionen und Konfigurationsmöglichkeiten - auch abseits der offiziell ausgelobten Pfade. Ferner bietet es zahllose Tipps und

Kniffe, mit denen Sie das Maximum aus Ihrem Gadget herausholen. Sie werden staunen, wie vielseitig das Mi Band tatsächlich ist!

Bit in Wonderland: Coding & Craft with the BBC Micro:bit (microbit) Springer Nature

Obra multidisciplinar, desarrollada por personal experimentado que revisa los principales retos de la investigación desde la perspectiva de diferentes especialidades clínicas, sus peculiaridades, los principales desarrollos que están en marcha, las bases fisiopatológicas que sustentan los esfuerzos actuales en algunas disciplinas médicas, las dianas terapéuticas que se piensan en la actualidad que pueden ser claves, y algunos resultados preliminares de diversos estudios.

También presentan los retos en el uso de los datos, la complejidad del equilibrio entre la experimentación y el respeto máximo al paciente, conceptos relacionados con las estructuras de soporte en investigación clínica, etc. todo ello reconociendo la volatilidad del conocimiento médico en desarrollo.

Effective UX for Current and Future Devices Oluwaloni Olapoju

Now may be the perfect time to enter the wearables industry. With the range of products that have appeared in recent years, you can determine which ideas resonate with users and which don't before leaping into the market. In this practical guide, author Scott Sullivan examines the current wearables ecosystem and then demonstrates the impact that service design in particular will have on these types of devices going forward. You'll learn about the history and influence of activity trackers, smartwatches, wearable cameras, the controversial Google Glass experiment, and other devices that have come out of

the recent Wild West period. This book also dives into many other aspects of wearables design, including tools for creating new products and methodologies for measuring their usefulness. You'll explore: Emerging types of wearable technologies How to design services around wearable devices Key concepts that govern service design Prototyping processes and tools such as Arduino and Processing The importance of storytelling for introducing new wearables How wearables will change our relationship with computers

CHIP. Журнал информационных технологий Sanjeevani

This book constitutes the refereed proceedings of the Third EAI International Conference on Smart Objects and Technologies for Social Good, GOODTECHS 2017, held in Pisa, Italy, November 29-30, 2017. The 38 revised full papers presented were carefully reviewed and selected from 70 submissions. The papers reflect the design, implementation, deployment, operation and evaluation of smart objects and technologies for social good. A social good can be understood as a service that benefits a large number of people in a most possible way. Some classic examples are healthcare, safety, environment, democracy, and human rights, or even art, entertainment, and communication.

Emerging Research in Data Engineering Systems and Computer Communications Springer Nature

This issue of Proceedings gathers papers presented at XOVETIC2019 (A Coruña, Spain, 5-6 September 2019), a conference with the main goal of bringing together young researchers working in big data, artificial intelligence, Internet of Things, HPC(High-performance computing), cybersecurity,

bioinformatics, natural language processing, 5G and others areas from the field of ICT (Information Communications Technology), and offering a platform to present the results of their research to a national audience in Galicia and north of Portugal. This second edition aims to serve as the basis of this event, which will be consolidated over time and acquire international projection. The conference is co-funded by Xunta de Galicia and European Union. European Regional Development Fund (ERDF).

Internet of Things, Infrastructures and Mobile Applications MAC Prague consulting

International Academic Conferences in Prague, August 10 - 13, 2018

Third International Conference.

GOODTECHS 2017, Pisa, Italy, November 29-30, 2017, Proceedings Springer

This book constitutes the refereed proceedings of the 4th International Symposium on Advances in Signal Processing and Intelligent Recognition Systems, SIRS 2018, held in Bangalore, India, in September 2018. The 28 revised full papers and 11 revised short papers presented were carefully reviewed and selected from 92 submissions. The papers cover wide research fields including information retrieval, human-computer interaction (HCI), information extraction, speech recognition.

7th EAI International Conference, GOODTECHS 2021, Virtual Event, September 15-17, 2021,

Proceedings Springer Nature

MetroInd4 0&IoT aims to discuss the contributions both of the metrology for the development of Industry 4 0 and IoT and the new opportunities offered by Industry 4 0 and IoT for the development of new measurement methods and

apparatus MetroInd4 0&IoT aims to gather people who work in developing instrumentation and measurement methods for Industry 4 0 and IoT. Attention is paid, but not limited to, new technology for metrology assisted production in Industry 4 0 and IoT, Industry 4 0 and IoT component measurement, sensors and associated signal conditioning for Industry 4 0 and IoT, and calibration methods for electronic test and measurement for Industry 4 0 and IoT.

Intelligent Environments 2019 Springer

This book constitutes the thoroughly refereed post-conference proceedings of the 10th International Conference on Mobile Computing, Applications, and Services, MobiCASE 2019, held in Hangzhou, China, in June 2019. The 17 full papers were carefully reviewed and selected from 48 submissions. The papers are organized in topical sections on mobile application with data analysis, mobile application with AI, edge computing, energy optimization and application.

ENTREPRENEURSHIP IN THE ASIA-PACIFIC: CASE STUDIES

Litres

Описаны новые проекты на платформах Arduino и ESP32/8266 и увлекательные опыты по исследованию человеческого организма и окружающей среды с использованием самых современных и доступных сенсоров и модулей профессионального уровня. Каждый проект начинается с описания основ изучаемого явления и завершается опытами и заданиями для самостоятельной работы. Рассказано, как выбрать плату Arduino, создать домашнюю лабораторию, измерять частоту пульса и содержание

кислорода в крови, проверять гальваническую реакцию кожи, снимать электрокардиограмму и регистрировать мышечные токи, контролировать чистоту окружающего воздуха и измерять интенсивность ультрафиолета в разных диапазонах, обрабатывать данные и работать с онлайн-сервисом визуализации Adafruit IO. На сайте издательства помещен архив файлов с исходными кодами программ и цветными иллюстрациями. Файлы для книги можно скачать по ссылке <ftp://ftp.bhv.ru/9785977540681.zip>

Micro BoD – Books on Demand

This three volume set of LNCS 12207, 12208 and 12209 constitutes the refereed proceedings of the 6th International Conference on Human Aspects of IT for the Aged Population, ITAP 2020, held as part of the 22nd International Conference, HCI International 2020, which took place in Copenhagen, Denmark, in July 2020. The conference was held virtually due to the COVID-19 pandemic. The total of 1439 papers and 238 posters have been accepted for publication in the HCI 2020 proceedings from a total of 6326 submissions. ITAP 2020 includes a total of 104 regular papers which are organized in topical sections named: Involving Older Adults in HCI Methodology, User Experience and Aging, Aging and Mobile and Wearable Devices, Health and Rehabilitation Technologies, Well-being, Persuasion, Health Education and Cognitive Support, Aging in Place, Cultural and Entertainment Experiences for Older Adults, Aging and Social Media, Technology Acceptance and Societal Impact.

13th EAI International Conference on

Body Area Networks Springer Nature

This book gathers papers on interactive and collaborative mobile learning environments, assessment, evaluation and research methods in mobile learning, mobile learning models, theory and pedagogy, open and distance mobile learning, life-long and informal learning using mobile devices, wearables and the Internet of Things, game-based learning, dynamic learning experiences, mobile systems and services for opening up education, mobile healthcare and training, case studies on mobile learning, and 5G network infrastructure. Today, interactive mobile technologies have become the core of many—if not all—fields of society. Not only do the younger generation of students expect a mobile working and learning environment, but also the new ideas, technologies and solutions introduced on a nearly daily basis also boost this trend. Discussing and assessing key trends in the mobile field were the primary aims of the 13th International Conference on Interactive Mobile Communication Technologies and Learning (IMCL2019), which was held in Thessaloniki, Greece, from 31 October to 01 November 2019. Since being founded in 2006, the conference has been devoted to new approaches in interactive mobile technologies, with a focus on learning. The IMCL conferences have since become a central forum of the exchange of new research results and relevant trends, as well as best practices. The book's intended readership includes policymakers, academics, educators, researchers in pedagogy and learning theory, schoolteachers, further education lecturers, practitioners in the learning industry, etc.

Новые проекты Arduino: здоровье, спорт, окружающая среда "O'Reilly

Media, Inc."

The aim of this book is to prepare students with knowledge and skills to understand the organizational needs and requirements of educational technology. Students should be able to use and manage both existing and emerging technologies effectively and be able to apply associated pedagogies to suit the environment, but also evaluate and manage technological advances of future and the requisite pedagogical shifts to achieve efficiency and effectiveness. The demand of educational technology has been rising steadily, primarily due to the fact that e-learning is a huge and significantly expanding world-wide industry. Commercial e-learning companies, training departments in large companies and organizations, computer software companies and educational institutions the world over employ large numbers of educational technology specialists. There is a strong demand for technologists who understand educational theories and for instructional designers and teachers who understand technologies. This book is targeted towards those who are looking for career in educational technology, instructional design, or media and information systems, or may want to continue their studies in graduate programs in learning and instructional technology, and those who are interested in becoming teacher in K-12 setting but need background in educational technology. This book will also act as a valuable resource in teacher education programs where primary focus on mainstream education and requires an authentic resource in instructional design and educational technology. Keeping in mind the varied needs of the organizations, employees and potential students, this book adopts

a competency approach to learning and assessment. The themes and topics take a multi-disciplinary approach, and are aimed at preparing students for competent and innovative educational technology professionals.

9th EAI International Conference, MobiHealth 2020, Virtual Event, November 19, 2020, Proceedings ARANZADI / CIVITAS

Книга будет полезна начинающим блогерам. Здесь вы узнаете про актуальные ниши для создания канала, самые распространенные ошибки ютуберов, работающие способы продвижения и многое другое.

Cybernetics Approaches in Intelligent Systems Litres

INTRODUCTION: A key facet of patient outcome following total knee arthroplasty is the restoration of physical function. Various methods can be used to measure this outcome; Patient reported outcome measures (PROMs), or more direct evaluations of strength assessments, timed activities, or biometric measurements. More recently activity monitors have been employed as an effective way to capture patients function without the reliance of clinic or laboratory based assessments. There is however little understanding of the interrelationship between these various ways of measuring the patient's ability to perform physical activity. Our aim was to evaluate the effectiveness of take-home activity monitoring devices and how the functional metric of step-count correlated with established clinic-based functional assessments of outcome.
METHODS: Following local approvals, 20 patients due to undergo primary TKA were prospectively recruited and consented to attend pre- and post-op research clinics. Data were

recorded at four time points; pre-operation, 6-, 12-, and 26-weeks post-operation. Patient functional activity levels were monitored with a battery of functional metrics. Lower limb power output was assessed with the Leg Extensor Power Rig (Nottingham, UK), reported as a ratio of control limb acting as an internal control. Timed functional performance was assessed with the Aggregated Locomotor Function (ALF) score, a composite of walking, chair transfer and stair climb (lower scores highlight superior function). Patient reported function was assessed with the Knee injury and Osteoarthritis Outcome Score Activities of Daily Living sub-score (KOOS ADL). Multiday activity monitoring devices (Xiaomi MiBand 2) counted steps over 3 consecutive days and were reported as a daily average value. Analysis was by Two-way ANOVA and Correlation Coefficients, with statistical significance accepted at 0.05.
RESULTS: Compared to pre-op, by 26 weeks patients had made significant improvements in proportional lower limb power (mean change 69% to 96%; p

CHIP. Ж

Springer

Springer

With Bluetooth Low Energy (BLE), smart devices are about to become even smarter. This practical guide demonstrates how this exciting wireless technology helps developers build mobile apps that share data with external hardware, and how hardware engineers can gain easy and reliable access to mobile operating systems. This book provides a solid, high-level overview of how devices use BLE to communicate with each other. You'll learn useful low-cost tools for developing and testing BLE-enabled mobile apps

and embedded firmware and get examples using various development platforms—including iOS and Android for app developers and embedded platforms for product designers and hardware engineers. Understand how data is organized and transferred by BLE devices Explore BLE's concepts, key limitations, and network topology Dig into the protocol stack to grasp how and why BLE operates Learn how BLE devices discover each other and establish secure connections Set up the tools and infrastructure for BLE application development Get examples for connecting BLE to iPhones, iPads, Android devices, and sensors Develop code for a simple device that transmits heart rate data to a mobile device

11th International Conference, ICCCI 2019, Hendaye, France, September 4–6, 2019, Proceedings, Part II Springer Nature

Computational Intelligence and Its Applications in Healthcare presents rapidly growing applications of computational intelligence for healthcare systems, including intelligent synthetic characters, man-machine interface, menu generators, user acceptance analysis, pictures archiving, and communication systems. Computational

intelligence is the study of the design of intelligent agents, which are systems that act intelligently: they do what they think are appropriate for their circumstances and goals; they're flexible to changing environments and goals; they learn from experience; and they make appropriate choices given perceptual limitations and finite computation. Computational intelligence paradigms offer many advantages in maintaining and enhancing the field of healthcare. Provides coverage of fuzzy logic, neural networks, evolutionary computation, learning theory, probabilistic methods, telemedicine, and robotics applications Includes coverage of artificial intelligence and biological applications, soft computing, image and signal processing, and genetic algorithms Presents the latest developments in computational methods in healthcare Bridges the gap between obsolete literature and current literature

Ewa Agoyin & Dodo: The Recipe for A Happier Student Springer Nature

Beyond Databases, Architectures and Structures. Paving the Road to Smart Data Processing and Analysis 15th International Conference, BDAS 2019, Ustroń, Poland, May 28–31, 2019, Proceedings Springer

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