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Application of the Social Cognitive Theory to an Electronic Activity Monitor System-based Physical Activity Intervention for Working Adults Ka Man Tam 2020 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

9th International Workshop on Spoken Dialogue System Technology Luis

Fernando D'Haro 2019-09-24 This book presents the outcomes of the 9th International Workshop on Spoken Dialogue Systems (IWSDS), "Towards creating more human-like conversational agent technologies". It compiles and provides a synopsis of current global research to push forward the state of the art in dialogue technologies, including advances in the context of the classical problems of language understanding, dialogue management and language generation, as well as cognitive topics related to the

human nature of conversational phenomena, such as humor, empathy and social context understanding and awareness.

Mobile Computing, Applications, and Services Yuyu Yin 2019-09-24 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

Trends and Innovations in Information Systems and Technologies Álvaro Rocha 2020-05-18 This book gathers selected papers presented at the 2020 World Conference on Information Systems and Technologies (WorldCIST'20), held in Budva, Montenegro, from April 7 to 10, 2020. WorldCIST provides a global forum for researchers and practitioners to present and discuss recent results and innovations, current trends, professional experiences with and challenges regarding various aspects of modern information systems and technologies. The main topics covered are A) Information and Knowledge Management; B) Organizational Models and Information Systems; C) Software and Systems Modeling; D) Software Systems, Architectures, Applications and Tools; E) Multimedia Systems and Applications; F) Computer Networks, Mobility and Pervasive Systems; G) Intelligent and Decision Support Systems; H) Big Data Analytics and Applications; I) Human-Computer Interaction; J) Ethics, Computers & Security; K) Health Informatics; L) Information Technologies in Education; M) Information Technologies in Radiocommunications; and N) Technologies for Biomedical Applications.

Proceedings of AC 2018 in Prague Group of Authors 2018-08-07 International Academic Conferences in Prague, August 10 - 13, 2018

CHIP. Журнал информационных

технологий ИД «Бурда» 2017-01-12 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:Эпоха авто на электричествеCHIP рассказывает о впечатлениях от электромобилей и концепт-каров Парижского автосалонаGalileo сбился с курса?Почему европейская спутниковая система навигации до сих пор не работает в штатном режиме?Ваш дом – ваша крепостьКак взламывают современные устройства для построения умного дома и как защититься от злоумышленниковВторой шанс «железа»Как правильно настроить смартфоны, ноутбуки и другую цифровую технику, чтобы выжать из нее максимум возможностей и продлить срок службыКак заменить экран iPhone бПошаговое руководство по замене разбитого экрана смартфона Apple и советы по выбору инструментовОсвобождаем место на дискеИспользуем встроенную в Windows 10 утилиту для сжатия системных файлов и высвобождения места на винчестереи многое другое

Emerging Research in Data Engineering Systems and Computer Communications P. Venkata Krishna 2020-02-10 This book gathers selected papers presented at the 2nd International Conference on Computing, Communications and Data Engineering, held at Sri Padmavati Mahila Visvavidyalayam, Tirupati, India from 1 to 2 Feb 2019. Chiefly discussing major issues and challenges in data engineering systems and computer communications, the topics covered include wireless systems and IoT, machine learning, optimization, control, statistics, and social

computing.

Next Generation of Internet of Things

Raghvendra Kumar 2021-06-14 This book includes selected papers from the International Conference on Next Generation of Internet of Things (ICNGIoT 2021), organized by the Department of Computer Science and Engineering, School of Engineering, GIET University, Gunupur, Odisha, India, during 5–6 February 2021. The book covers topics such as IoT network design and architecture, IoT network virtualization, IoT sensors, privacy and security for IoT, SMART environment, social networks, data science and data analytics, cognitive intelligence and augmented intelligence, and case studies and applications.

Entrepreneurship in the Asia-Pacific: Case Studies

Jing Wang 2019-09-23 This book is dedicated to the analysis of the entrepreneurship in successful companies by presenting and comparing a series of case studies in the Asia-Pacific where many new companies have been growing successfully in the 21st century. In total, 5 cases in the manufacturing industry, 4 cases in the services industry, and 3 cases related to new business and social innovation are chosen from The mainland of China, Taiwan, Japan, Australia, Malaysia and Vietnam. Each case provides insight into the entrepreneur's aspiration, the processes of personal and business developments, the factors of success, and the inspirations drawn from the analysis. These cases are analyzed and compared from the viewpoints of entrepreneur's motivation, ability of foreseeing changes and opportunities in the future business environment, core resources and innovation, knowledge management and culture for the company, determination and ethos. These are critical factors in value creation for customers and the society, especially in the future business environment. Finally, commonalities and uniquenesses in entrepreneurship relevant to industry sectors and social-economic-cultural contexts are clarified and a typical entrepreneurship model in the Asia-Pacific is proposed.

Computational Collective Intelligence

Ngoc Thanh Nguyen 2019-10-04 This two-volume set (LNAI 11683 and LNAI 11684) constitutes the refereed proceedings of the 11th International Conference on Computational Collective Intelligence, ICCCI 2019, held in Hendaye France, in September 2019. The 117 full papers presented were carefully reviewed and selected from 200 submissions. The papers are grouped in topical sections on: computational collective intelligence and natural language processing; machine learning in real-world data; distributed collective intelligence for smart manufacturing; collective intelligence for science and technology; intelligent management information systems; intelligent sustainable smart cities; new trends and challenges in education: the university 4.0; intelligent processing of multimedia in web systems; and big data streaming, applications and security.

Ewa Agoyin & Dodo: The Recipe for A Happier Student

walo, the underscore. 2019-02-03 Instead of being afraid to check your results next time, let me help you regain your self confidence. You'll drastically improve as a student, and you won't have to kill yourself to get there. I'll show you how to be the best student you can be.

Cybernetics Approaches in Intelligent Systems

Radek Silhavy 2017-09-04 This book discusses new approaches and methods in the cybernetics, algorithms and software engineering in the scope of the intelligent systems. It brings new approaches and methods to real-world problems and exploratory research that describes novel approaches in the cybernetics, algorithms and software engineering in the scope of the intelligent systems. This book constitutes the refereed proceedings of the Computational Methods in Systems and Software 2017, a conference that provided an international forum for the discussion of the latest high-quality research results in all areas related to computational methods, statistics, cybernetics and software engineering.

Новые проекты Arduino: здоровье, спорт, окружающая среда Яценков Валерий

Станиславович 2020 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>

"Outdoor training", una nueva fórmula para incentivar al trabajador

Jose Manuel Ferro Veiga 2020-01-27 El Outdoor Training persigue potenciar las habilidades laborales y personales de los trabajadores mediante una metodología vivencial basada en el aprendizaje a través de la experiencia directa.

Xiaomi Mi Band: Anleitung, Tipps & Tricks - das inoffizielle Handbuch

Michael Henneke 2015-06-04 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 eingehen 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!

The Running Athlete Gian Luigi Canata 2017-01-01

Advances in Signal Processing and Intelligent Recognition Systems Sabu M. Thampi 2019-01-05 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.

13th EAI International Conference on Body Area Networks Chika Sugimoto 2020-03-03

The papers in this proceeding discuss current and future trends in wearable communications and personal health management through the use of wireless body area networks (WBAN). The authors posit new technologies that can provide trustworthy communications mechanisms from the user to medical health databases. The authors discuss not only on-body devices, but also technologies providing information in-body. Also discussed are dependable communications combined with accurate localization and behavior analysis, which will benefit WBAN technology and make the healthcare processes more effective. The papers were presented at the 13th EAI International Conference on Body Area Networks (BODYNETS 2018), Oulu, Finland, 02-03 October 2018.

De lange weg naar de vrijheid Nelson Mandela 2017-10-21 De lange weg naar de vrijheid is de beroemde autobiografie van een van de grootste mannen van de twintigste eeuw. Nelson Mandela beschrijft de lange weg die hij heeft moeten afleggen van onwetende jongen tot charismatisch staatsman. Dit is het verhaal van misschien wel de wonderbaarlijkste omwenteling in de

geschiedenis, verteld door de man die het allemaal heeft meegemaakt en in gang gezet. Het verhaal van Mandela, door Mandela.

Computational Intelligence and Its Applications in Healthcare Jitendra Kumar Verma 2020-08-01 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
CHIP. Журнал информационных технологий ИД «Бурда» 2017-01-12 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 семеркаРезультаты тестирования смартфонов Apple iPhone 7 и iPhone 7 Plus, умных часов Watch Series 2Цифровая агрессияОткуда произрастает сетевая ненависть и как не стать жертвой троллингаNFC терпит неудачу?Почему NFC до сих пор не получила признания на рынке бесконтактных платежейЛучшие гаджеты этого годаБольшой сводный тест новых моделей смартфонов, планшетов, умных часов и фитнес-трекеровУмный быт с помощью приложенийОбзор мобильных приложений для управления системами умного домаС Apple дороже?Действительно ли онлайн-магазины показывают разные цены пользователям и от чего это зависит?и многое другое

Biometric-Based Physical and Cybersecurity Systems Mohammad S. Obaidat 2018-10-24 This book presents the latest developments in biometrics technologies and reports on new approaches, methods, findings, and technologies developed or being developed by the research community and the industry. The book focuses on introducing fundamental principles and concepts of key enabling technologies for biometric systems applied for both physical and cyber security. The authors disseminate recent research and developing efforts in this area, investigate related trends and challenges, and present case studies and examples such as fingerprint, face, iris, retina, keystroke dynamics, and voice applications . The authors also investigate the advances and future outcomes in research and development in biometric security systems. The book is applicable to students, instructors, researchers, industry practitioners, and related government agencies staff. Each chapter is accompanied by a set of PowerPoint slides for use by instructors.

Журнал «Мир ПК» Мир ПК 2017-01-12 В номере:Тема номера: Гаджет в подарокЧто бы такое подарить? Дайджест необычных подарковКаждый

раз, когда нужно сделать подарок близкому человеку, проходишь по стандартному набору, а затем думаешь, может быть, стоит купить что-то необычное? Такое, что пригодится в быту и вместе с тем станет чем-то запоминающимся? Подарки для геймера Если ищете подарок для игрока, то эта статья вам поможет. Мы покопались в новинках 2016 г. и выбрали самые интересные гаджеты, которые наверняка порадуют геймера. Обзоры и рейтинги Выбираем правильный роутер для дома или малого офиса Роутер – самое важное устройство в нашем доме, пусть не все это понимают. Мы попробовали понять, какие из представленных на рынке устройств являются оптимальными. Игровой монитор ViewSonic XG2700-4K: Добротная картинка Компания ViewSonic решила покорить сердца геймеров монитором на качественной IPS-матрице. Игры Обзор Titanfall 2. Титаническая работа Первая игра серии была популярна. Однако свежая франшиза и отсутствие одиночного режима не добавили Titanfall большой славы – видно, что это проба пера новой студии. Удалось ли исправить ситуацию в сиквеле? Call of Duty: Infinite Warfare. Бесконечная война Когда смотришь на релизы все новых и новых Call of Duty, кажется, что эта музыка будет вечной. В чем же секрет успеха скандальной франшизы? и многое другое

Designing for Wearables Scott Sullivan 2016-12-20 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

Computational Science - ICCS 2019 João M. F. Rodrigues 2019-06-07 The five-volume set LNCS 11536, 11537, 11538, 11539 and 11540 constitutes the proceedings of the 19th International Conference on Computational Science, ICCS 2019, held in Faro, Portugal, in June 2019. The total of 65 full papers and 168 workshop papers presented in this book set were carefully reviewed and selected from 573 submissions (228 submissions to the main track and 345 submissions to the workshops). The papers were organized in topical sections named: Part I: ICCS Main Track Part II: ICCS Main Track; Track of Advances in High-Performance Computational Earth Sciences: Applications and Frameworks; Track of Agent-Based Simulations, Adaptive Algorithms and Solvers; Track of Applications of Matrix Methods in Artificial Intelligence and Machine Learning; Track of Architecture, Languages, Compilation and Hardware Support for Emerging and Heterogeneous Systems Part III: Track of Biomedical and Bioinformatics Challenges for Computer Science; Track of Classifier Learning from Difficult Data; Track of Computational Finance and Business Intelligence; Track of Computational Optimization, Modelling and Simulation; Track of Computational Science in IoT and Smart Systems Part IV: Track of Data-Driven Computational Sciences; Track of Machine Learning and Data Assimilation for Dynamical Systems; Track of Marine Computing in the Interconnected World for the Benefit of the Society; Track of

Multiscale Modelling and Simulation; Track of Simulations of Flow and Transport: Modeling, Algorithms and Computation Part V; Track of Smart Systems: Computer Vision, Sensor Networks and Machine Learning; Track of Solving Problems with Uncertainties; Track of Teaching Computational Science; Poster Track ICCS 2019 Chapter “Comparing Domain-decomposition Methods for the Parallelization of Distributed Land Surface Models” is available open access under a Creative Commons Attribution 4.0 International License via link.springer.com. Internet of Things, Infrastructures and Mobile Applications Michael E. Auer 2020-09-10 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. Computational Science - ICCS 2020 Valeria V. Krzhizhanovskaya 2020-06-18 The seven-volume set LNCS 12137, 12138, 12139, 12140, 12141, 12142, and 12143 constitutes the proceedings of the 20th International Conference on Computational Science, ICCS 2020, held in Amsterdam, The Netherlands, in June 2020.* The total of 101 papers and 248 workshop papers presented in this book set were carefully reviewed and selected from 719 submissions (230 submissions to the main track and 489 submissions to the workshops). The papers were organized in topical sections named: Part I: ICCS Main Track Part II: ICCS Main Track Part III: Track of Advances in High-Performance Computational Earth Sciences: Applications and Frameworks; Track of Agent-Based Simulations, Adaptive Algorithms and Solvers; Track of Applications of Computational Methods in Artificial Intelligence and Machine Learning; Track of Biomedical and Bioinformatics Challenges for Computer Science Part IV: Track of Classifier Learning from Difficult Data; Track of Complex Social Systems through the Lens of Computational Science; Track of Computational Health; Track of Computational Methods for Emerging Problems in (Dis-)Information Analysis Part V: Track of Computational Optimization, Modelling and Simulation; Track of Computational Science in IoT and Smart Systems; Track of Computer Graphics, Image Processing and Artificial Intelligence Part VI: Track of Data Driven Computational Sciences; Track of Machine Learning and Data Assimilation for Dynamical Systems; Track of Meshfree Methods in Computational Sciences; Track of Multiscale Modelling and Simulation; Track of Quantum Computing Workshop Part VII: Track of Simulations of Flow and Transport: Modeling, Algorithms and Computation; Track of Smart Systems: Bringing Together Computer Vision, Sensor Networks and Machine Learning; Track of

Software Engineering for Computational Science; Track of Solving Problems with Uncertainties; Track of Teaching Computational Science; Track of UNcErtainty QUAntificatiOn for ComputationAI modeLs *The conference was canceled due to the COVID-19 pandemic.

Beyond Databases, Architectures and Structures. Paving the Road to Smart Data Processing and Analysis

Stanisław Kozielski 2019-05-07 This book constitutes the refereed proceedings of the 15th International Conference entitled Beyond Databases, Architectures and Structures, BDAS 2019, held in Ustroń, Poland, in May 2019. It consists of 26 carefully reviewed papers selected from 69 submissions. The papers are organized in topical sections, namely big data and cloud computing; architectures, structures and algorithms for efficient data processing and analysis; artificial intelligence, data mining and knowledge discovery; image analysis and multimedia mining; bioinformatics and biomedical data analysis; industrial applications; networks and security.

Wireless Mobile Communication and Healthcare Juan Ye 2021-02-20 This book constitutes the refereed post-conference proceedings of the 9th International Conference on Mobile Communication and Healthcare, MobiHealth 2020, held in December 2020. Due to Covid-19 pandemic the conference was held virtually. The book contains 13 full papers selected from the main conference and 10 full papers from two workshops on medical artificial intelligence and on digital healthcare technologies. The conference papers are organized in topical sections on wearable technologies; health telemetry; mobile sensing and assessment; machine learning in eHealth applications.

Educational Technology Ronghuai Huang 2019-02-27 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.

Patient Functional Ability Improves Following Total Knee Arthroplasty But Pre-Operative Activity Pattern Remains 2017

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

Smart Objects and Technologies for Social Good Barbara Guidi 2018-03-02 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.

A Good Sleep: The Role of Factors in Psychosocial Health Chung-Ying Lin 2020-07-08

Advances in Computer Science and Ubiquitous Computing James J. Park 2021-01-04 This book presents the combined proceedings of the 11th International Conference on Computer Science and its Applications (CSA 2019) and the 14th KIPS International Conference on Ubiquitous Information Technologies and Applications (CUTE 2019), both held in Macau, China, December 18-20, 2019. The aim of these two meetings was to promote discussion and interaction among academics, researchers and professionals in the field of ubiquitous computing technologies. These proceedings reflect the state of the art in the development of computational methods, involving theory, algorithms, numerical simulation, error and uncertainty analysis and novel applications of new processing techniques in engineering, science and other disciplines related to ubiquitous computing.

Вся правда про Видеохостинг, или Секрет успеха Андрей Ваняшин 2021-03-12 Книга будет полезна начинающим блогерам. Здесь вы узнаете про актуальные ниши для создания канала, самые распространенные ошибки ютуберов, работающие способы продвижения и многое другое.

Intelligent Environments 2019 A. Muñoz 2019-08-06 Intelligent Environments (IEs) aim to empower users by enriching their experience, raising their awareness and enhancing their management of their surroundings. The term IE is used to describe the physical spaces where ICT and

pervasive technologies are used to achieve specific objectives for the user and/or the environment. The growing IE community, from academia to practitioners, is working on the materialization of IEs driven by the latest technological developments and innovative ideas. This book presents the proceedings of the workshops held in conjunction with the 15th International Conference on Intelligent Environments (IE'19), Rabat, Morocco, 24 - 27 June 2019. The conference focused on the development of advanced intelligent environments, as well as newly emerging and rapidly evolving topics. The workshops included here emphasize multi-disciplinary and transversal aspects of IEs, as well as cutting-edge topics: the 8th International Workshop on the Reliability of Intelligent Environments

(WORIE'19); 9th International Workshop on Intelligent Environments Supporting Healthcare and Well-being (WISHWell'19); 5th Symposium on Future Intelligent Educational Environments and Learning (SOFIEE'19); 3rd International Workshop on Intelligent Systems for Agriculture Production and Environment Protection (ISAPEP'19); 3rd International Workshop on Legal Issues in Intelligent Environments (LIIE'19); 1st International Workshop on Intelligent Environments and Buildings (IEB'19); 3rd International Workshop on Citizen-Centric Smart Cities Services (CCSCS'19); and the 4th International Workshop on Smart Sensing Systems (IWSSS'19). The book will be of interest to all those whose work involves the design or application of Intelligent Environments.