



Heart and Temperature Monitoring Design and Testing Over the Internet

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ABSTRACT

Design and testing of a heart rate monitoring system and human body temperature using an Arduino-based internet network, which aims to monitor heart conditions and body temperature on the internet network. This monitoring system tool is designed using Arduino with two measurement parameters, namely a heart rate sensor and a human body temperature sensor with the results displayed on the LCD, internet web, and android application. The research method used is to measure heart rate (BPM) and human body temperature compared with standard equipment in hospitals, by taking measurements of five patients with five measurements each. This study also aims to make it easier for medics to monitor patient conditions remotely. Based on measurement data for five patients who have been measured using a design tool, the relative error value for heart rate is less than 3% and body temperature with a correction factor of 1% and percentage below 2%. This value indicates that the designed tool functions quite well.

Key words: Arduino, Health Monitoring, Internet of Things, User Testing

1. INTRODUCTION

The normal heart rate in humans ranges from 60-100 BPM at rest [1]–[3]. A heart rate of 60 BPM at rest indicates a very healthy body condition. However, a heart rate that exceeds 100 BPM at rest indicates a possible heart disorder and this should not be underestimated because heart disease is one of the leading causes of death in the world. In 2014, the death rate in Indonesia was 1,551,000 people, of which 37% of the death rate was caused by heart disease [4]–[7].

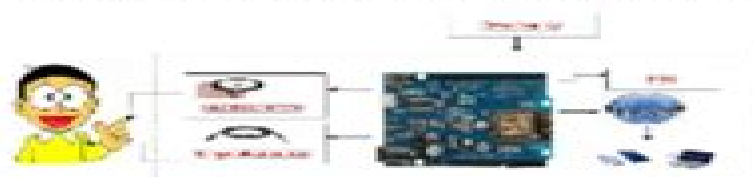
The heart is one of the most important organs of the human body, because the heart functions as a pump for the entire body through blood vessels. When blood is pumped

out of the heart in an artery it will feel a pulse wave and can be palpated at the place where the artery crosses a bone that is located near the surface of the skin, such as the dialysis artery in the wrist, temporal artery in the wrist, over the temporal bone, or the dorsalis pedis artery in the ankle [8], [9]. What is palpable is not the blood pumped by the heart into the aorta but the pressure waves that are diverted from the aorta and propagate faster than the blood itself. In addition to the heart, which must be considered is body temperature. Changes in body temperature are closely related to excessive heat production, maximum heat production and excessive heat expenditure [8].

By utilizing internet connectivity, we can do remote monitoring and can be used for patients who have difficulty mobility or difficulty being able to attend the hospital, several previous studies have shown that using the internet for remote monitoring of health can help patients and the medical team in treatment which they do [10]–[14]. Therefore, we need a device to detect the heart rate and human body temperature. With technology, the process of monitoring heart rate and body temperature can be done remotely so that the monitoring process becomes more efficient.

2. RESEARCH METHODOLOGY

This monitoring tool design research was conducted at Columbia Asia Palomas Hospital, Jakarta. From assembling tools to designing tools for monitoring heart rate and body temperature. Where the data obtained from research at this hospital is data on heart rate measurements and data on measuring human body temperature. The block diagram of a heart rate monitoring system and human body temperature



Trends In Advanced Science And Engineering

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Emerging Trends in Advanced Science S. Rama Reddy,Venkatesan Jamuna,Nagarajan Booma,Natesan Saritha,2014-08-28 Selected peer reviewed papers from the International Conference on Emerging Trends in Science Engineering and Technology ICETSET 2014 April 18 19 2014 Chennai India **Work Through the Folds** Xi Zhan,2025-06-30 The book explores the leadership of vocational high school principals in China focusing on how their leadership is distributed among stakeholders and shaped by policy culture and social norms Based on a qualitative study of 31 Chinese vocational high school principals the author seeks to understand their interpretations of equity in vocational education and the reasons behind their leadership actions By analyzing their personal views and experiences she connects their micro narratives with the broader narratives of the market and cultural legitimacy of academic vocational tracking policies Ultimately the book fosters a dialogue between existing empirical evidence on effective principal leadership styles and the process of principals becoming The book will appeal to scholars and students of principal leadership school management and educational policy as well as school administrators and principals facing challenges of educational equity

Handbook of Research on Innovations and Applications of AI, IoT, and Cognitive Technologies Zhao, Jingyuan,Kumar, V. Vinoth,2021-06-25 Recently artificial intelligence AI the internet of things IoT and cognitive technologies have successfully been applied to various research domains including computer vision natural language processing voice recognition and more In addition AI with IoT has made a significant breakthrough and a shift in technical direction to achieve high efficiency and adaptability in a variety of new applications On the other hand network design and optimization for AI applications addresses a complementary topic namely the support of AI based systems through novel networking techniques including new architectures as well as performance models for IoT systems IoT has paved the way to a plethora of new application domains at the same time posing several challenges as a multitude of devices protocols communication channels architectures and middleware exist Big data generated by these devices calls for advanced learning and data mining techniques to effectively understand learn and reason with this volume of information such as cognitive technologies Cognitive technologies play a major role in developing successful cognitive systems which mimic cognitive functions associated with human intelligence such as learning and problem solving Thus there is a continuing demand for recent research in these two linked fields The Handbook of Research on Innovations and Applications of AI IoT and Cognitive Technologies discusses the latest innovations and applications of AI IoT and cognitive based smart systems The chapters cover the intersection of these three fields in emerging and developed economies in terms of their respective development situation public policies technologies and intellectual capital innovation systems competition and strategies marketing and growth capability and governance and relegation models These applications span areas such as healthcare security and privacy industrial systems multidisciplinary sciences and more This book is ideal for technologists IT specialists policymakers government officials academics students

and practitioners interested in the experiences of innovations and applications of AI IoT and cognitive technologies

Artificial Intelligence-based Internet of Things Systems Souvik Pal, Debashis De, Rajkumar Buyya, 2022-01-11 The book discusses the evolution of future generation technologies through Internet of Things IoT in the scope of Artificial Intelligence AI The main focus of this volume is to bring all the related technologies in a single platform so that undergraduate and postgraduate students researchers academicians and industry people can easily understand the AI algorithms machine learning algorithms and learning analytics in IoT enabled technologies This book uses data and network engineering and intelligent decision support system by design principles to design a reliable AI enabled IoT ecosystem and to implement cyber physical pervasive infrastructure solutions This book brings together some of the top IoT enabled AI experts throughout the world who contribute their knowledge regarding different IoT based technology aspects **Trends in Control and**

Measurement Education D.P. Atherton, D.A. Linkens, 2014-06-28 This volume is the published Proceedings of selected papers from the IFAC Symposium Swansea 11-13 July 1988 where a forum was provided for discussion of the latest advances and techniques in the education of control and instrument engineers Seven major topics were covered to aid lecturers in understanding developing and presenting systems engineering control and measurement as a subject to undergraduate and postgraduate students The teaching of real time computer control as a topic and laboratory experiments for both continuous and discrete systems were discussed as was process control with the emphasis on providing the student with engineering experience by using scaled down equipment which would teach practical skills Included in the Proceedings are papers on measurement and instrumentation an area felt to be neglected within academic instruction The development of software tools for systems design within systems engineering was included as was the exchange of teaching packages and methods between academics and the education curriculum of systems engineering within developing countries These Proceedings will prove to be a useful up to date guide and reference source for all lecturers and professors involved in curriculum development and the teaching of control and measurement in systems engineering New Trends in Intelligent Software

Methodologies, Tools and Techniques H. Fujita, G. Guizzi, 2023-10-03 Software is an essential enabler for science and the new economy but current software methodologies tools and techniques are often still not sufficiently robust or reliable for the constantly changing and evolving market and many promising approaches have proved to be no more than case oriented methods that are not fully automated This book presents the proceedings of SoMeT_23 the 22nd International Conference on New Trends in Intelligent Software Methodology Tools and Techniques held from 20-22 September 2023 in Naples Italy The conference brings together researchers and practitioners to share original research and practical development experience in software science and related new technologies and is an opportunity for the software science community to take stock of where they are today and consider future directions The 25 papers included here were carefully selected from the many high quality submissions received after a rigorous review process with each paper typically being reviewed by 3 or 4 reviewers

Topics covered range from research practices techniques and methodologies to the solutions required by global business SoMeT_23 focused in particular on intelligent software the application of artificial intelligence techniques in software development and tackling human interaction in the development process for better high level interface with an emphasis on human centric software methodologies end user development techniques and emotional reasoning for an optimum performance between design tool and user Exploring trends theories and challenges in the integration of software and science for tomorrow s global information society the book captures a new state of the art in software science and its supporting technology and will be of interest to all those working in the field

New Trends in Intelligent Software Methodologies, Tools and Techniques H. Fujita,E. Herrera-Viedma,2018-09-18 Knowledge based systems fully integrated with software have become essential enablers for both science and commerce But current software methodologies tools and techniques are not robust or reliable enough for the demands of a constantly changing and evolving market and many promising approaches have proved to be no more than case oriented methods that are not fully automated This book presents the proceedings of the 17th international conference on New Trends in Intelligent Software Methodology Tools and Techniques SoMeT18 held in Granada Spain 26 28 September 2018 The SoMeT conferences provide a forum for the exchange of ideas and experience foster new directions in software development methodologies and related tools and techniques and focus on exploring innovations controversies and the current challenges facing the software engineering community The 80 selected papers included here are divided into 13 chapters and cover subjects as diverse as intelligent software systems medical informatics and bioinformatics artificial intelligence techniques social learning software and sentiment analysis cognitive systems and neural analytics and security among other things Offering a state of the art overview of methodologies tools and techniques this book will be of interest to all those whose work involves the development or application of software

Treatment of Petroleum Refinery Wastewater with Constructed Wetlands Hassana Ibrahim Mustapha,2018-07-11 Pollution of waterbodies and the environment by petroleum industry is of particular concern in Nigeria This problem can be addressed by the application of constructed wetlands CWs which is a nature based system that is simple to construct have low operational and maintenance costs in terms of supply of energy and its periodic maintenance The application of CWs in Nigeria for polishing of petroleum refinery wastewater is an unprecedented research This PhD thesis focused on some specific objectives which were characterization of treated secondary refinery wastewater design construction operation and monitoring of planted *T latifolia* *C alternifolius* and *C dactylon* and unplanted vertical subsurface flow horizontal subsurface flow and hybrid CWs for the removal of suspended solids nutrients heavy metals organic matter and organic pollutants The CWs effectively treated the petroleum contaminated wastewater to effluent compliance limits In this study *T latifolia* planted CWs had consistently higher removal efficiencies for all the measured parameters than *C alternifolius* and *C dactylon* planted CW systems Therefore in order to improve the wastewater quality

discharged by Kaduna Refining and Petrochemical Company KRPC Nigeria meet stringent guidelines and protect the recipient streams installation of CWs at the effluent discharge point of KRPC is strongly recommended

New Age Globalization A. Ahmad, 2013-07-03 Using the frameworks of systems theory modernization and the world system New Age Globalization presents a composite multilevel multidirectional picture of globalization informed by eight different but interdependent subsystems

National Laboratories and Research Public Corporations in Japan, 1990 *Science Indicators*, 1978

Handbook of Giftedness in Children Steven I. Pfeiffer, 2018-06-09 In one comprehensive resource this superb handbook covers everything you need to know about the subject It brings together leading experts from the fields of psychology and education combining theory and applied empirical research on such crucial topics as conceptualization types of intelligence developmental considerations and ethical and legal concerns Particular attention is given to social and family contexts and evidence based strategies and interventions offer solid guidelines on assessment curriculum design and encouraging and nurturing talent from preschool through adolescence

Application of Deep Learning Methods in Healthcare and Medical Science Rohit Tanwar, Prashant Kumar, Malay Kumar, Neha Nandal, 2022-12-26 The volume provides a wealth of up to date information on developments and applications of deep learning in healthcare and medicine providing deep insight and understanding of novel applications that address the tough questions of disease diagnosis prevention and immunization The volume looks at applications of deep learning for major medical challenges such as cancer detection and identification birth asphyxia among neonates kidney abnormalities white blood cell segmentation diabetic retinopathy detection and Covid 19 diagnosis prevention and immunization The volume discusses applications of deep learning in detection diagnosis intensive examination and evaluation genomic sequencing convolutional neural networks for image recognition and processing and more for health issues such as kidney problems brain tumors lung damage and breast cancer The authors look at ML for brain tumor segmentation in lung CT scans in digital X ray devices and for logistic and transport systems for effective delivery of healthcare

Advances in Integrated Design and Production II Lahcen Azrar, Abdelilah Jalid, Samir Lamouri, Ali Siadat, Mourad Taha Janan, Fakher Chaari, Mohamed Haddar, 2023-05-02 This book reports on innovative concepts and practical solutions at the intersection between engineering design production and industrial management It covers cutting edge design modeling and control of dynamic and multiphysics systems knowledge management systems in industry 4 0 cyber physical production systems additive and sustainable manufacturing and many other related topics It also highlights important collaborative works between different countries and between industry and universities Gathering the proceedings of the 12th International Conference on Integrated Design and Production CPI 2022 held on May 10 12 2022 at cole Nationale Sup rieure d Arts et M tiers ENSAM in Rabat Morocco this book gathers carefully peer reviewed chapters with extensive information for researchers and professionals in the broad area of engineering design production and management

Advancing IT Audits Through Integrative Approaches and Emerging Technologies

Gupta, Manish, Walp, John, Sharman, Raj, 2025-08-07 In an era of rapid digital transformation and increased cyber security threats the role of IT audits has become more critical and more complex than ever Modern audits have evolved through adapting tools like AI and blockchain Integrating these technologies with traditional audits can enhance accuracy and efficiency in IT systems This shift not only strengthens risk management and compliance but also empowers auditors to deliver deeper insights and more proactive assurance in a continuously changing technological landscape Advancing IT Audits Through Integrative Approaches and Emerging Technologies explores the different practices of integration of modern technologies and machine learning in IT auditing This book redefines IT auditing paradigms by incorporating cutting edge technological advances and sector specific challenges Covering topics such as artificial intelligence disruption management and risk mitigation this book is an excellent resource for IT auditors compliance officers risk management professionals academicians and more New Trends in Integrated Science Teaching P. E. Richmond, 1969 Engineering and Mining Journal, 1922 **Nanotechnology-Based Detection and Remediation for the Environment, Food and Agriculture** Monika Kundu, Shiv Prasad, Ananta Vashisth, Prameela Krishnan, 2025-09-10 Nanotechnology is not just a tool of the future it is the catalyst transforming how we detect protect and sustain the world around us Nanotechnology surpasses conventional techniques by offering unparalleled precision efficiency and scalability It enables real time detection targeted remediation and resource optimization in ways traditional methods cannot achieve From revolutionizing environmental cleanup to enhancing food safety and agricultural practices nanotechnology is the key to sustainable innovation in a rapidly changing world This book illuminates cutting edge research and charts a visionary path for leveraging nanotechnology to address global challenges in the environment food safety and agriculture From ensuring food quality to revitalizing soil and purifying water it offers innovative solutions to safeguard our planet's resources and future *Engineering and Mining Journal-press*, 1922 **Resources in Education**, 1980

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