



## 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].

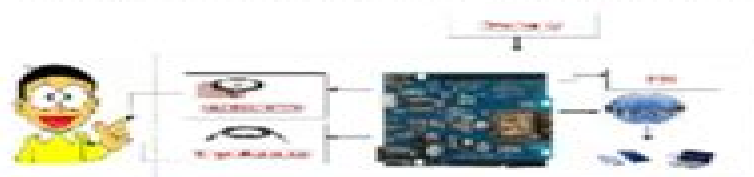
The heart is one of the most important organs of the human body, because the heart functions as a pump for the entire body through blood vessels. When blood is pumped

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

**Jitendra Kumar Pandey, Suwendu  
Manna, Ravi Kumar Patel**



## **Trends In Advanced Science And Engineering:**

**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 Science & Engineering Indicators ,2004

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 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

*Science Indicators* ,1983 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

*Gender Equity in Science and Engineering* Diana Bilimoria,Xiangfen Liang,2012-02-06 Women faculty s participation in academic science and engineering is critical for future US global competitiveness yet their underrepresentation particularly in senior positions remains a widespread problem To overcome persistent institutional resistance and barriers to change the NSF ADVANCE institutional transformation initiative instituted in 2001 seeks to increase the workforce participation of women faculty in academic science and engineering through systematic institutional transformation This book assesses the equity diversity and inclusion outcomes of the changes underway at 19 universities It provides a comprehensive stand alone description of successful approaches to increase the recruitment advancement and retention of women faculty throughout the academic career pipeline The findings show that targeted institutional transformation at these 19 U S universities has resulted in significant increases in women faculty s workforce participation as well as improved gender equity and inclusion Analyses by discipline show that the greatest changes have occurred within engineering and natural science disciplines at these universities Yet the results also point to the overall continued underrepresentation of women faculty in academic science and engineering at the nation s research universities A framework of organizational change is derived to serve as a template to academic and other organizations seeking transformation to enhance gender equity diversity and inclusion

*Trends, Paradigms, and Advances in Mechatronics Engineering* Mellal, Mohamed Arezki,2022-11-18 Most modern systems involve various engineering disciplines Mechatronic systems are designed to be dependable and efficient however mechatronics engineering faces multiple challenges at the design and exploitation stages It is essential for engineers to be aware of these challenges and remain up to date with the emerging research in the mechatronics engineering field Trends Paradigms and Advances in Mechatronics Engineering presents the latest advances and applications of mechatronics It highlights the recent challenges in the field and facilitates understanding of the subject Covering topics such as the construction industry design optimization and low cost fabrication this premier reference source is a crucial resource for engineers computer scientists construction managers students and educators of higher education librarians researchers and academicians

**The Digitalization Conundrum in India** Keshab Das,Bhabani Shankar Prasad Mishra,Madhabananda Das,2021-03-01 This book examines the nature extent and implications of rapid strides digitalization has made in India since the turn of the millennium These have been examined not merely in the sphere of information and communication technology ICT but its multifarious applications spreading across almost all aspects of production services and institutions which have profound repercussions for the transformation of the society and economy at the micro meso and macro levels With contributions from both ICT scholars and social scientists this book presents diverse scenarios and unravels challenges faced in the process of technical applications access by the users of these

disruptive technologies automation e commerce big data analytics algorithms artificial intelligence cloud computing etc which unlike heavy machines embodied technology mostly defy physical space pace of mobility and inoperability between technologies Chapters in this volume address challenges and possibilities in establishing and operating intricate engineering infrastructure technical and societal constraints encountered in broad basing digitalization across layers of educational and social skills conducive to difficult geographies Issues dealt within this book include farming healthcare education food processing e commerce labour rural community development open source data and information democracy The chapters also reflect upon implications on local economy and society of the very global nature of these seamless technologies where inter operability remains the quintessential advantage of digitalization whether promoted or spearheaded through the state private sector or global capital The book critiques policy inadequacies and suggests plausible policy approaches to reduce the adverse impacts of fast digitalization and broad base potential benefits across space and levels of socio economic development of regions and society This book would be of interest to scholars practitioners technocrats industry analysts policy makers and civil society agencies

3D Printing Technology for Water Treatment Applications Jitendra Kumar Pandey,Suvendu Manna,Ravi Kumar Patel,2022-10-30 3D Printing Technology for Water Treatment Applications provides a state of the art presentation on the application of 3D printing technology in water treatment The book discusses numerous processes and their scope for improvement through the use of 3D printing technology including pollutant separation from water and an overview of the advantages and disadvantages of different 3D printed technology over current technologies In addition the future outlook for device development using 3D printing water purification is explored Finally sustainability issues relating to 3D printing based water purification processes are discussed describing specific technologies such as 3D printed membranes This book will serve as a vital resource for scientists engineers and environmental professionals working in water treatment technologies Takes an in depth look at state of the art water treatment methods Includes discussion of the application of 3D printed devices in areas such as water treatment resource recovery and toxic ion removal Looks at current developments in the integration of adsorption technology with 3D printing technology

**Report of the National Science Board** ,1973 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

*Women and Minorities in Science and Engineering* ,1986      **National Science Foundation Legislation, 1974** United States. Congress. Senate. Committee on Labor and Public Welfare. Special Subcommittee on the National Science Foundation,1974      *Women and Minorities in Science and Engineering* Michael F. Crowley,National Science Foundation (U.S.),1986      *Hearings* United States. Congress. House. Committee on Appropriations,1959      **Department of Defense Appropriations for 1959: Department of the Navy** United States. Congress. House. Committee on Appropriations,1958      Department of Defense Appropriations for 1959 United States. Congress. House. Committee on Appropriations. Subcommittee on Department of Defense,1958      **Islamic Perspectives on Science and Technology** Mohammad Hashim Kamali,Osman Bakar,Daud Abdul-Fattah Batchelor,Rugayah Hashim,2016-04-25 This book presents 25 selected papers from the International Conference on Developing Synergies between Islam Science and Technology for Mankind s Benefit held at the International Institute for Advanced Islamic Studies Malaysia Kuala Lumpur in October 2014 The papers cover a broad range of issues reflecting the main conference themes Cosmology and the Universe Philosophy of Science and the Emergence of Biological Systems Principles and Applications of Tawhidic Science Medical Applications of Tawhidic Science and Bioethics and the History and Teaching of Science from an Islamic Perspective Highlighting the relationships between the Islamic religious worldview and the physical sciences the book challenges secularist paradigms on the study of Science and Technology Integrating metaphysical perspectives of Science topics include Islamic approaches to S T such as an Islamic epistemology of the philosophy of science a new quantum theory environmental care avoiding wasteful consumption using Islamic teachings and emotional blasting psychological therapy Eminent contributing scholars include Osman Bakar Mohammad Hashim Kamali Mehdi Golshani Mohd Kamal Hassan Adi Setia and Malik Badri The book is essential reading for a broad group of academics and practitioners from Islamic scholars and social scientists to physical scientists and engineers

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