



Flying Fish Sensor

Frank Herbert, Bill Ransom



Flying Fish Sensor:

Luftqualitätsbestimmung. Entwicklung einer Handyapplikation zur Messung von Schadstoffwerten Andreas Rieger, 2023-09-04 Diplomarbeit aus dem Fachbereich Ingenieurwissenschaften Sicherheitstechnik Sprache Deutsch Abstract Aufgrund der Coronapandemie wurde die Luftqualität ein relevantes Thema. Ab einem Schadstoffwert von 2000ppm in der Luft kann sich der Erreger vermehrt verbreiten. Daher sollte man darauf achten, dass ein Raum regelmäßig gelüftet wird und der CO₂ Wert diesen Grenzwert nicht überschreitet. Mithilfe einiger Sensoren kann man diese Werte messen und sich einen Überblick über die Luftqualität eines Raumes schaffen. Damit die Werte für den Anwender ersichtlich sind, wurde eine Handyapplikation erstellt. Die Sensoren können in jeglichen Innenräumen aufgestellt werden. Für unseren Auftraggeber hat das Projekt einen zusätzlichen Anwendungszweck, da wir mithilfe unserer Sensoren die Qualität der Luftreiner des Unternehmens messen. Ziel des Projektes ist ein funktionierendes System, welches die Schadstoffwerte misst, diese mithilfe eines Servers an eine Datenbank weiterleitet und dann in der Handyapp angezeigt werden. Die Benutzer sollen einen guten Überblick über die Lage der Luftqualität haben und diese jederzeit abrufen können. Generell wollen wir mit unserer Arbeit auf Probleme einer unreinen Luft hinweisen. Durch unsere Handyalarmapp können unsere Benutzer leicht verstehen, wann die Luftqualität in den Innenräumen schließlich für ihre Gesundheit ist. Damit wir dieses Ziel erreichen, ist ein benutzerfreundliches Design des Frontends genauso unerlässlich wie eine korrekte Verbindung zwischen allen Komponenten und der Datenbank. Auch richtig kalibrierte Sensoren sind wichtige Bestandteile der Diplomarbeit. *Proceedings of the Multimedia University Engineering Conference (MECON 2022)* Mohamad Yusoff bin Alias, 2023-02-10 This is an open access book. The Multimedia University Engineering Conference 2022 MECON 2022 aims to bring together related research scholars, educators, practitioners, policy makers, enthusiasts, fellow students and industries to share and exchange their research experiences and results on all aspects of engineering technologies from various perspectives, disciplines and fields. It also offers an interdisciplinary platform for all stakeholders to present and discuss the most latest trends, innovations and concerns as well as practical challenges encountered and solutions adopted in the realm of engineering technologies. This conference is being co-organised by the Faculty of Engineering FOE and Faculty of Engineering and Technology FET, Multimedia University. MECON 2022 carries the theme Sustainable Engineering for a Sustainable Future. **Design and Make It!** Tristram Shepard, Melanie Fasciato, Diana Mitchell, 1998 This is an assessment resource which aims to give a reliable judgement of pupils' levels of attainment at the end of Key Stage 3 through structured assignments. These involve designing and making desk top picture frames, a portable night light and environmentally responsible packaging posters and other items. The pack includes lesson plans, an assessment checklist, template sheets, project sheets and an end of project test. **Field and Service Robotics** Marco Hutter, Roland Siegwart, 2017-11-01 This book contains the proceedings of the 11th FSR Field and Service Robotics, which is the leading single track conference on applications of robotics in challenging environments. This

conference was held in Zurich Switzerland from 12-15 September 2017. The book contains 45 full-length peer-reviewed papers organized into a variety of topics: Control, Computer Vision, Inspection, Machine Learning, Mapping, Navigation, and Planning, and Systems and Tools. The goal of the book and the conference is to report and encourage the development and experimental evaluation of field and service robots and to generate a vibrant exchange and discussion in the community. Field robots are non-factory robots typically mobile that operate in complex and dynamic environments on the ground, Earth, or other planets, under the ground, underwater, in the air, or in space. Service robots are those that work closely with humans to help them with their lives. The first FSR was held in Canberra, Australia, in 1997. Since that first meeting, FSR has been held roughly every two years, cycling through Asia, Americas, and Europe.

Emerging Technologies in Digital Manufacturing and Smart Factories Hassan, Ahdi, Dutta, Pushan Kumar, Gupta, Subir, Mattar, Ebrahim, Singh, Satya, 2023-12-29. Rapid digital transformation is forcing the manufacturing industry to drastically alter its current trajectory for future success. The remarkable convergence of digitalization and manufacturing is reshaping industries, ushering in an era known as Industry 5.0. This revolutionary transition has given birth to digital manufacturing and smart factories, heralding a new dawn in the way we produce goods. The amalgamation of artificial intelligence (AI), robotics, the Internet of Things (IoT), augmented reality (AR), virtual reality (VR), big data analytics, cloud computing, and additive manufacturing stands poised to unlock unprecedented avenues in the realm of production. Practitioners, researchers, dreamers, and pioneers all are beckoned to explore the uncharted territories of digital innovation in manufacturing. *Emerging Technologies in Digital Manufacturing and Smart Factories* spans domains from mechanical and electrical engineering to computer science, from industrial economics to business strategy, and this book addresses this diverse audience. The book embarks on a comprehensive voyage, unveiling the latest evolutions and nascent trends within digital manufacturing and smart factories. From inception to execution, from design optimization to predictive maintenance, every phase of the manufacturing lifecycle is scrutinized through the lens of cutting-edge technologies. Rather than relying exclusively on the theoretical realm, this book also ventures into the crucible of real-world application, offering practical insights drawn from varied industries, including automotive, aerospace, and pharmaceuticals.

Congress on Research, Development and Innovation in Renewable Energies Mayken Espinoza-Andaluz, Jordy Santana-Villamar, Brayan Ordóñez-Saca, Carlos Vallejo-Cervantes, Luis Rodríguez-Álava, 2025-06-06. Renewable Energy Research, Development, and Innovation: Selected Papers from CIDiER 2024 presents international collaborations that foster ideas and dialogue around solutions to climate change through research and development that leads to clean energy innovation via renewable energies. The book includes chapters based on selected papers from the 2024 Congress on Research, Development, and Innovation in Renewable Energies (CIDiER 2024) that cover theoretical and applied research that will strengthen the implementation of renewable energy projects between universities, research centers, and private companies in Latin America. Presents leading-edge research on advancing renewable energy. Promotes research and

innovation with a focus on Latin America Covers biomass hydraulic hydrogen tidal solar and wind energy *Oceans '88*,1988 **Object Detection by Stereo Vision Images** R. Arokia Priya,Anupama V. Patil,Manisha Bhende,Anuradha D.

Thakare,Sanjeev Wagh,2022-08-25 OBJECT DETECTION BY STEREO VISION IMAGES Since both theoretical and practical aspects of the developments in this field of research are explored including recent state of the art technologies and research opportunities in the area of object detection this book will act as a good reference for practitioners students and researchers Current state of the art technologies have opened up new opportunities in research in the areas of object detection and recognition of digital images and videos robotics neural networks machine learning stereo vision matching algorithms soft computing customer prediction social media analysis recommendation systems and stereo vision This book has been designed to provide directions for those interested in researching and developing intelligent applications to detect an object and estimate depth In addition to focusing on the performance of the system using high performance computing techniques a technical overview of certain tools languages libraries frameworks and APIs for developing applications is also given More specifically detection using stereo vision images video from its developmental stage up till today its possible applications and general research problems relating to it are covered Also presented are techniques and algorithms that satisfy the peculiar needs of stereo vision images along with emerging research opportunities through analysis of modern techniques being applied to intelligent systems Audience Researchers in information technology looking at robotics deep learning machine learning big data analytics neural networks pattern data mining and image and object recognition Industrial sectors include automotive electronics security and surveillance systems and online retailers *The Life Cycle of the Centric Diatom*

Thalassiosira Weissflogii Elisabeth Virginia Armbrust,1990 The goal of this research was to understand what factors determine whether a diatom cell can exit the mitotic cell cycle to undergo gametogenesis and subsequent auxospore formation Using flow cytometry I found that the centric diatom *Thalassiosira weissflogii* could be induced to undergo spermatogenesis by exposing cells maintained in continuous light to either dim light or darkness The use of populations representing distinct cell cycle distributions indicated that cells in early G1 could be triggered to form male gametes Whereas cells further along in their cell cycle were unresponsive to these same cues The size distributions of numerous isolates maintained under identical conditions were examined over time to determine the relation between cell size and the ability to undergo sexual reproduction Each isolate underwent periodic increases and decreases in mean cell size as expected for populations alternating between asexual and sexual reproduction However the timing of the onset of sexual reproduction the rate of increase in mean cell size and the size of the post auxospores created during a sexual event varied among isolates and within a given isolate over time This variable behavior was hypothesized to occur because the genetic composition of diatom populations varies over time Keywords Medicine **Polar Remote Sensing** Dan Lubin,Robert Massom,2006-08-31

The polar regions perhaps more than any other places on Earth give the geophysical scientist a sense of exploration This

sensibility is genuine for not only is high latitude eldwork arduous with many locations seldom or never visited but there remains much fundamental knowledge yet to be discovered about how the polar regions interact with the global climate system The range of opportunities for new discovery becomes strikingly clear when we realize that the high latitudes are not one region but are really two vastly different worlds The high Arctic is a frozen ocean surrounded by land and is home to fragile ecosystems and unique modes of human habitation The Antarctic is a frozen continent without regular human habitation covered by ice sheets taller than many mountain ranges and surrounded by the Earth's most forbidding ocean When we consider global change as applied to the Arctic we discuss impacts to a region whose surface and lower atmospheric temperatures are near the triple point of water throughout much of the year The most consistent signatures of climate warming have occurred at northern high latitudes IPCC 2001 and the potential impacts of a few degrees increase in surface temperature include a reduction in sea ice extent a positive feedback to climate warming due to lowering of surface albedo and changes to surface runoff that might affect the Arctic Ocean's salinity and circulation

Internet of Behaviors

Implementation in Organizational Contexts Carvalho, Luísa Cagica, Silveira, Clara, Reis, Leonilde, Russo, Nelson, 2023-11-01 Internet of behaviors IoB also known as the internet of behavior emerged as a natural consequence of the internet of things IoT and artificial intelligence AI IoB is an area of investigation that compiles three fields of study IoT data analysis and behavioral science IoB seeks to explain the data obtained from a behavioral point of view analyzing human interaction with technology and referring to the process by which user controlled data is evaluated from a behavioral psychology perspective Internet of Behaviors Implementation in Organizational Contexts explores internet of behaviors solutions that promote people's quality of life This book explores and discusses through innovative studies case studies systematic literature reviews and reports The content within this publication represents research encompassing the internet of behaviors internet of things big data artificial intelligence blockchain smart cities human centric approach for digital technologies ICT sustainability and more This vital reference source led by an editor with over two decades of experience is optimized for university professors researchers undergraduate and graduate level students and business managers and professionals across several industries related to or utilizing the internet of things IoT

Bionic Sensing with Artificial Lateral Line Systems for Fish-Like Underwater Robots Guangming Xie, Xingwen Zheng, 2022-08-23 In this book the authors first introduce two fish like underwater robots including a multiple fins actuated robotic fish and a caudal fin actuated robotic fish with a barycenter regulating mechanism They study how a robotic fish uses its onboard pressure sensor arrays based ALLS to estimate its trajectory in multiple locomotions including rectilinear motion turning motion ascending motion and spiral motion In addition they also explore the ALLS based relative position and attitude perception between two robotic fish in a leader follower formation Four regression methods multiple linear regression methods support vector regressions back propagation neural networks and random forest methods are used to evaluate the relative positions or attitudes using the

ALLS data The research on ALLS based local sensing between two adjacent fish robots extends current research from one individual underwater robot to two robots in formation and will attract increasing attention from scholars of robotics underwater technology biomechanics and systems and control engineering *ICCAP 2021* A Mohan,D. S.

Vijayan,2021-12-22 This proceeding constitutes the thoroughly refereed proceedings of the 1st International Conference on Combinatorial and Optimization ICCAP 2021 December 7 8 2021 This event was organized by the group of Professors in Chennai The Conference aims to provide the opportunities for informal conversations have proven to be of great interest to other scientists and analysts employing these mathematical sciences in their professional work in business industry and government The Conference continues to promote better understanding of the roles of modern applied mathematics combinatorics and computer science to acquaint the investigator in each of these areas with the various techniques and algorithms which are available to assist in his or her research We selected 257 papers were carefully reviewed and selected from 741 submissions The presentations covered multiple research fields like Computer Science Artificial Intelligence internet technology smart health care etc brought the discussion on how to shape optimization methods around human and social needs *Emerging Trends in Computing and Expert Technology* D. Jude Hemanth,V. D. Ambeth Kumar,S.

Malathi,Oscar Castillo,Bogdan Patrut,2019-11-07 This book presents high quality research papers that demonstrate how emerging technologies in the field of intelligent systems can be used to effectively meet global needs The respective papers highlight a wealth of innovations and experimental results while also addressing proven IT governance standards and practices and new designs and tools that facilitate rapid information flows to the user The book is divided into five major sections namely Advances in High Performance Computing Advances in Machine and Deep Learning Advances in Networking and Communication Advances in Circuits and Systems in Computing and Advances in Control and Soft Computing **Lock, Stock, and Icebergs** Adam Lajeunesse,2016-01-15 In 1988 after years of failed negotiations over the status of the Northwest Passage Brian Mulroney gave Ronald Reagan a globe pointed to the Arctic and said Ron that s ours We own it lock stock and icebergs A simple statement it summed up a hundred years of official policy Since the nineteenth century Canadian governments have claimed ownership of the land and the icy passageways that make up the Arctic Archipelago Unfortunately for Ottawa many countries including the United States still do not recognize these as internal Canadian waters Crucial to understanding the complex nature of Canadian Arctic sovereignty is an understanding of its history Lock Stock and Icebergs draws on recently declassified Canadian and American archival material to chart the origins and development of Canadian Arctic maritime policy Uncovering decades of internal policy debates secret negotiations with the United States and long classified joint defence projects Adam Lajeunesse traces the circuitous history of Canada s Arctic maritime sovereignty

The Ascension Factor Frank Herbert,Bill Ransom,2013-10-31 This final book in the Destination Void collaboration between Frank Herbert and Bill Ransom set twenty five years after the previous book The Lazarus Effect concludes the story

of the planet Pandora A stunning work from the acclaimed author of Dune the series which inspired the 2021 Denis Villeneuve epic film adaptation Dune starring Oscar Isaac Timoth e Chalamet Zendaya and Josh Brolin

Tunnelling into a Sustainable Future - Methods and Technologies Fredrik Johansson,Anders Ansell,Daniel Johansson,Johan Funehag,Jenny Norrman,2025-05-12 Tunnelling into a Sustainable Future Methods and Technologies contains the contributions presented at the ITA AITES World Tunnel Congress 2025 Stockholm Sweden 9 15 May 2025 The contributions cover a wide range of topics in the fields of tunnelling and underground engineering including 1 Innovating tunneling 2 Safety Underground 3 Use of underground space 4 Investigations and ground characterisation 5 Planning and design of underground space 6 Conventional tunnelling 7 Mechanised tunnelling 8 Complex geometries including shafts and ramps 9 Grouting and groundwater control 10 Instrumentation and monitoring 11 Operation inspection and maintenance 12 Contractual aspects financing and risk management 13 Impact from climate change Tunnelling into a Sustainable Future Methods and Technologies will serve as a valuable reference to all concerned with tunnelling and underground engineering including students researchers and engineers

IUTAM Symposium on Unsteady Separated Flows and their Control Marianna Braza,K. Hourigan,2009-09-29 This Volume is the Proceedings of the IUTAM Symposium on Unsteady Separated Flows and Their Control held in Corfu Greece 18 22 June 2007 This was the second IUTAM Symposium on this subject following the symposium in Toulouse in April 2002 The Symposium consisted of single plenary sessions with invited lectures lected oral presentations discussions on special topics and posters The complete set of papers was provided to all participants at the meeting The thematic sessions of this Symposium are presented in the following Experimental techniques for the unsteady ow separation Theoretical aspects and analytical approaches of ow separation Instability and transition Compressibility effects related to unsteady separation Statistical and hybrid turbulence modelling for unsteady separated ows Direct and Large Eddy Simulation of unsteady separated ows Theoretical industrial aspects of unsteady separated ow control This IUTAM Symposium concerned an important domain of Theoretical and Applied Mechanics nowadays It focused on the problem of ow separation and of its control It achieved a uni ed approach regrouping the knowledge provided from theoretical experimental numerical simulation and modelling aspects for unsteady separated ows incompressible and compressible regimes and included ef cient control devices to achieve attenuation or suppression of separation The subject eas covered important themes in the domain of fundamental research as well as in the domain of applications

Advances in Wireless Sensors and Sensor Networks Subhas Chandra Mukhopadhyay,Henry Leung,2010-04-16 In recent times wireless sensors and sensor networks have become a great interest to research scientific and technological community Though the sensor networks have been in place for more than a few decades now the wireless domain has opened up a whole new application spaces of sensors Wireless sensors and sensor networks are different from traditional wireless networks as well computer networks and therefore pose more challenges to solve such as limited energy restricted life time etc This book

intends to illustrate and to collect recent advances in wireless sensors and sensor networks not as an encyclopedia but as clever support for scientists students and researchers in order to stimulate exchange and discussions for further developments

The Pandora Sequence Frank Herbert,Bill Ransom,2013-03-06 All three novels in the New York Times bestselling science fiction fantasy series about the survival of a human colony in the wake of AI From Frank Herbert the Hugo and Nebula Award winning author of Dune in collaboration with Bill Ransom the bestselling series that began with Destination Void The Jesus Incident opens as Ship an artificial intelligence with godlike powers delivers the last survivors of humanity to a horrific poisonous planet Pandora rife with deadly Nerve Runners Hooded Dashers airborne jellyfish and intelligent kelp Chaplain and psychiatrist Raja Lon Flattery is brought back out of hybernation to witness Ship s machinations as well as the schemes of human scientists manipulating the genetic structure of humanity The Lazarus Effect takes place centuries later The descendants of humanity split into Mermen and Islanders must reunite because Pandora s original owner is returning to life The series concludes with The Ascension Factor Pandora is now in the grip of the clone known as Director The resistance s main hope is Crista Galli believed by some to be the child of God and the fight for Pandora spreads ever wider

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