

# TACTILE SENSORS — FOR — ROBOTICS — AND — MEDICINE



*Edited by*

*John G. Webster*

# Tactile Sensors For Robotics And Medicine

**Olaf Dössel, Wolfgang C. Schlegel**



## **Tactile Sensors For Robotics And Medicine:**

**Tactile Sensors for Robotics and Medicine** John G. Webster, 1988-11-15 A comprehensive review of the principles design and application of tactile sensors incorporating new research results Tactile sensors may be used in the augmentation or replacement of damaged human appendages and they are used in robots including applications in nuclear reactors in underwater exploration and in space Contributors examine characteristics and limitations of sensor materials the design of tactile sensors based on the physiology of the human hand and numerous applications of this emerging technology

Tactile Sensing and Displays Javad Dargahi, Saeed Sokhanvar, Siamak Najarian, Siamak Arbatani, 2012-11-06  
Comprehensively covers the key technologies for the development of tactile perception in minimally invasive surgery Covering the timely topic of tactile sensing and display in minimally invasive and robotic surgery this book comprehensively explores new techniques which could dramatically reduce the need for invasive procedures The tools currently used in minimally invasive surgery MIS lack any sort of tactile sensing significantly reducing the performance of these types of procedures This book systematically explains the various technologies which the most prominent researchers have proposed to overcome the problem Furthermore the authors put forward their own findings which have been published in recent patents and patent applications These solutions offer original and creative means of surmounting the current drawbacks of MIS and robotic surgery Key features Comprehensively covers topics of this ground breaking technology including tactile sensing force sensing tactile display PVDF fundamentals Describes the mechanisms methods and sensors that measure and display kinaesthetic and tactile data between a surgical tool and tissue Written by authors at the cutting edge of research into the area of tactile perception in minimally invasive surgery Provides key topic for academic researchers graduate students as well as professionals working in the area

**Robotic Tactile Sensing** Ravinder S. Dahiya, Maurizio Valle, 2012-07-29 Future robots are expected to work closely and interact safely with real world objects and humans alike Sense of touch is important in this context as it helps estimate properties such as shape texture hardness material type and many more provides action related information such as slip detection and helps carrying out actions such as rolling an object between fingers without dropping it This book presents an in depth description of the solutions available for gathering tactile data obtaining aforementioned tactile information from the data and effectively using the same in various robotic tasks The efforts during last four decades or so have yielded a wide spectrum of tactile sensing technologies and engineered solutions for both intrinsic and extrinsic touch sensors Nowadays new materials and structures are being explored for obtaining robotic skin with physical features like bendable conformable and stretchable Such features are important for covering various body parts of robots or 3D surfaces Nonetheless there exist many more hardware software and application related issues that must be considered to make tactile sensing an effective component of future robotic platforms This book presents an in depth analysis of various system related issues and presents the trade offs one may face while developing an effective

tactile sensing system For this purpose human touch sensing has also been explored The design hints coming out of the investigations into human sense of touch can be useful in improving the effectiveness of tactile sensory modality in robotics and other machines Better integration of tactile sensors on a robot's body is prerequisite for the effective utilization of tactile data The concept of semiconductor devices based sensors is an interesting one as it allows compact and fast tactile sensing systems with capabilities such as human like spatio temporal resolution This book presents a comprehensive description of semiconductor devices based tactile sensing In particular novel Piezo Oxide Semiconductor Field Effect Transistor POSFET based approach for high resolution tactile sensing has been discussed in detail Finally the extension of semiconductor devices based sensors concept to large and flexible areas has been discussed for obtaining robotic or electronic skin With its multidisciplinary scope this book is suitable for graduate students and researchers coming from diverse areas such as robotics bio robots humanoids rehabilitation etc applied materials human touch sensing electronics microsystems and instrumentation To better explain the concepts the text is supported by large number of figures

### **Highly Redundant**

**Sensing in Robotic Systems** Julius T. Tou, Jens G. Balchen, 2012-12-06 Design of intelligent robots is one of the most important endeavors in robotics research today The key to intelligent robot design lies in sensory systems for robotic control and manipulation In an unstructured environment robotic sensing translates measurements and characteristics of the environment and working objects into useful information A robotic system is usually equipped with a variety of sensors to perform redundant sensing and achieve data fusion This book contains revised versions of papers presented at a NATO Advanced Research Workshop held in Florida in September 1989 within the activities of the NATO Special Programme on Sensory Systems for Robotic Control The fundamental issues addressed in this volume were Theory and techniques including knowledge based systems geometrical fusion Boolean fusion probabilistic fusion feature based fusion error estimation approach and Markov process modeling General concepts including microscopic redundancy at the sensory element level macroscopic redundancy at the sensory system level parallel redundancy and standby redundancy Implementation and application including robotic control sensory technology robotic assembly robot fingers sensory signal processing sensory system integration and PAPIA architecture Biological analogies including neural nets pattern recognition low level fusion and motor learning

*Electromagnetic Actuation and Sensing in Medical Robotics* Hongliang Ren, Jinji Sun, 2017-12-30 This book highlights electromagnetic actuation EMA and sensing systems for a broad range of applications including targeted drug delivery drug release rate control catheterization intravitreal needleless injections wireless magnetic capsule endoscopy and micromanipulations It also reviews the state of the art magnetic actuation and sensing technologies with remotely controlled targets used in biomedicine

**Telemedicine and Electronic Medicine** Halit Eren, John G. Webster, 2018-10-08 The E Medicine E Health M Health Telemedicine and Telehealth Handbook provides extensive coverage of modern telecommunication in the medical industry from sensors on and within the body to electronic medical records and beyond

Telemedicine and Electronic Medicine is the first volume of this handbook Featuring chapters written by leading experts and researchers in their respective fields this volume Describes the integration of and interactions between modern eMedicine telemedicine eHealth and telehealth practices Explains how medical information flows through wireless technologies and networks emphasizing fast deploying wireless body area networks Presents the latest developments in sensors devices and implantables from medical sensors for mobile communication devices to drug delivery systems Illustrates practical telemedicine applications in telecardiology teleradiology teledermatology teleaudiology teleoncology acute care telemedicine and more The E Medicine E Health M Health Telemedicine and Telehealth Handbook bridges the gap between scientists engineers and medical professionals by creating synergy in the related fields of biomedical engineering information and communication technology business and healthcare

**Human-Like Advances in Robotics: Motion, Actuation, Sensing, Cognition and Control** Tadej Petric,Kosta Jovanovic,Toshiaki Tsuji,Calogero Maria Oddo,2019-12-24

**Measurement, Instrumentation, and Sensors Handbook** John G. Webster,Halit Eren,2017-12-19 The Second Edition of the bestselling Measurement Instrumentation and Sensors Handbook brings together all aspects of the design and implementation of measurement instrumentation and sensors Reflecting the current state of the art it describes the use of instruments and techniques for performing practical measurements in engineering physics chemistry and the life sciences and discusses processing systems automatic data acquisition reduction and analysis operation characteristics accuracy errors calibrations and the incorporation of standards for control purposes Organized according to measurement problem the Spatial Mechanical Thermal and Radiation Measurement volume of the Second Edition Contains contributions from field experts new chapters and updates to all 96 existing chapters Covers instrumentation and measurement concepts spatial and mechanical variables displacement acoustics flow and spot velocity radiation wireless sensors and instrumentation and control and human factors A concise and useful reference for engineers scientists academic faculty students designers managers and industry professionals involved in instrumentation and measurement research and development Measurement Instrumentation and Sensors Handbook Second Edition Spatial Mechanical Thermal and Radiation Measurement provides readers with a greater understanding of advanced applications

*Springer Handbook of Robotics* Bruno Siciliano,Oussama Khatib,2016-07-27 The second edition of this handbook provides a state of the art overview on the various aspects in the rapidly developing field of robotics Reaching for the human frontier robotics is vigorously engaged in the growing challenges of new emerging domains Interacting exploring and working with humans the new generation of robots will increasingly touch people and their lives The credible prospect of practical robots among humans is the result of the scientific endeavour of a half a century of robotic developments that established robotics as a modern scientific discipline The ongoing vibrant expansion and strong growth of the field during the last decade has fueled this second edition of the Springer Handbook of Robotics The first edition of the handbook soon became a landmark in robotics publishing and won the American Association

of Publishers PROSE Award for Excellence in Physical Sciences Mathematics as well as the organization's Award for Engineering Technology The second edition of the handbook edited by two internationally renowned scientists with the support of an outstanding team of seven part editors and more than 200 authors continues to be an authoritative reference for robotics researchers newcomers to the field and scholars from related disciplines The contents have been restructured to achieve four main objectives the enlargement of foundational topics for robotics the enlightenment of design of various types of robotic systems the extension of the treatment on robots moving in the environment and the enrichment of advanced robotics applications Further to an extensive update fifteen new chapters have been introduced on emerging topics and a new generation of authors have joined the handbook's team A novel addition to the second edition is a comprehensive collection of multimedia references to more than 700 videos which bring valuable insight into the contents The videos can be viewed directly augmented into the text with a smartphone or tablet using a unique and specially designed app Springer Handbook of Robotics Multimedia Extension Portal <http://handbookofrobotics.org>

**World Congress on Medical Physics and Biomedical Engineering September 7 - 12, 2009 Munich, Germany** Olaf Dössel, Wolfgang C. Schlegel, 2010-01-06 Present Your Research to the World The World Congress 2009 on Medical Physics and Biomedical Engineering the triennial scientific meeting of the IUPESM is the world's leading forum for presenting the results of current scientific work in health related physics and technologies to an international audience With more than 2 800 presentations it will be the biggest conference in the fields of Medical Physics and Biomedical Engineering in 2009 Medical physics biomedical engineering and bioengineering have been driving forces of innovation and progress in medicine and healthcare over the past two decades As new key technologies arise with significant potential to open new options in diagnostics and therapeutics it is a multidisciplinary task to evaluate their benefit for medicine and healthcare with respect to the quality of performance and therapeutic output Covering key aspects such as information and communication technologies micro and nanosystems optics and biotechnology the congress will serve as an inter and multidisciplinary platform that brings together people from basic research R D industry and medical application to discuss these issues As a major event for science medicine and technology the congress provides a comprehensive overview and in depth first hand information on new developments advanced technologies and current and future applications With this Final Program we would like to give you an overview of the dimension of the congress and invite you to join us in Munich Olaf Dössel Congress President Wolfgang C

**Tactile Sensors for Robotic Applications** Salvatore Pirozzi, 2021-03-17 The book covers different aspects Innovative technologies for tactile sensors development Tactile data interpretation for control purposes Alternative sensing technologies Multi sensor systems for grasping and manipulation Sensing solutions for impaired people

Measurement, Instrumentation, and Sensors Handbook, Second Edition John G. Webster, Halit Eren, 2014-01-29 The Second Edition of the bestselling Measurement Instrumentation and Sensors Handbook brings together all aspects of the design and implementation of

measurement instrumentation and sensors Reflecting the current state of the art it describes the use of instruments and techniques for performing practical measurements in engineering physics chemistry and the life sciences and discusses processing systems automatic data acquisition reduction and analysis operation characteristics accuracy errors calibrations and the incorporation of standards for control purposes Organized according to measurement problem the Spatial Mechanical Thermal and Radiation Measurement volume of the Second Edition Contains contributions from field experts new chapters and updates to all 96 existing chapters Covers instrumentation and measurement concepts spatial and mechanical variables displacement acoustics flow and spot velocity radiation wireless sensors and instrumentation and control and human factors A concise and useful reference for engineers scientists academic faculty students designers managers and industry professionals involved in instrumentation and measurement research and development Measurement Instrumentation and Sensors Handbook Second Edition Spatial Mechanical Thermal and Radiation Measurement provides readers with a greater understanding of advanced applications

Encyclopedia Of Medical Robotics, The (In 4 Volumes)  
,2018-08-28 The Encyclopedia of Medical Robotics combines contributions in four distinct areas of Medical robotics namely Minimally Invasive Surgical Robotics Micro and Nano Robotics in Medicine Image guided Surgical Procedures and Interventions and Rehabilitation Robotics The volume on Minimally Invasive Surgical Robotics focuses on robotic technologies geared towards challenges and opportunities in minimally invasive surgery and the research design implementation and clinical use of minimally invasive robotic systems The volume on Micro and Nano robotics in Medicine is dedicated to research activities in an area of emerging interdisciplinary technology that is raising new scientific challenges and promising revolutionary advancement in applications such as medicine and biology The size and range of these systems are at or below the micrometer scale and comprise assemblies of micro and nanoscale components The volume on Image guided Surgical Procedures and Interventions focuses primarily on the use of image guidance during surgical procedures and the challenges posed by various imaging environments and how they related to the design and development of robotic systems as well as their clinical applications This volume also has significant contributions from the clinical viewpoint on some of the challenges in the domain of image guided interventions Finally the volume on Rehabilitation Robotics is dedicated to the state of the art of an emerging interdisciplinary field where robotics sensors and feedback are used in novel ways to re learn improve or restore functional movements in humans Volume 1 Minimally Invasive Surgical Robotics focuses on an area of robotic applications that was established in the late 1990s after the first robotics assisted minimally invasive surgical procedure This area has since received significant attention from industry and researchers The teleoperated and ergonomic features of these robotic systems for minimally invasive surgery MIS have been able to reduce or eliminate most of the drawbacks of conventional laparoscopic MIS Robotics assisted MIS procedures have been conducted on over 3 million patients to date primarily in the areas of urology gynecology and general surgery using the FDA approved da Vinci surgical

system The significant commercial and clinical success of the da Vinci system has resulted in substantial research activity in recent years to reduce invasiveness increase dexterity provide additional features such as image guidance and haptic feedback reduce size and cost increase portability and address specific clinical procedures The area of robotic MIS is therefore in a state of rapid growth fueled by new developments in technologies such as continuum robotics smart materials sensing and actuation and haptics and teleoperation An important need arising from the incorporation of robotic technology for surgery is that of training in the appropriate use of the technology and in the assessment of acquired skills This volume covers the topics mentioned above in four sections The first section gives an overview of the evolution and current state the da Vinci system and clinical perspectives from three groups who use it on a regular basis The second focuses on the research and describes a number of new developments in surgical robotics that are likely to be the basis for the next generation of robotic MIS systems The third deals with two important aspects of surgical robotic systems teleoperation and haptics the sense of touch Technology for implementing the latter in a clinical setting is still very much at the research stage The fourth section focuses on surgical training and skills assessment necessitated by the novelty and complexity of the technologies involved and the need to provide reliable and efficient training and objective assessment in the use of robotic MIS systems In Volume 2 Micro and Nano Robotics in Medicine a brief historical overview of the field of medical nanorobotics as well as the state of the art in the field is presented in the introductory chapter It covers the various types of nanorobotic systems their applications and future directions in this field The volume is divided into three themes related to medical applications The first theme describes the main challenges of microrobotic design for propulsion in vascular media Such nanoscale robotic agents are envisioned to revolutionize medicine by enabling minimally invasive diagnostic and therapeutic procedures To be useful nanorobots must be operated in complex biological fluids and tissues which are often difficult to penetrate In this section a collection of four papers review the potential medical applications of motile nanorobots catalytic based propelling agents biologically inspired microrobots and nanoscale bacteria enabled autonomous drug delivery systems The second theme relates to the use of micro and nanorobots inside the body for drug delivery and surgical applications A collection of six chapters is presented in this segment The first chapter reviews the different robot structures for three different types of surgery namely laparoscopy catheterization and ophthalmic surgery It highlights the progress of surgical microrobotics toward intracorporeally navigated mechanisms for ultra minimally invasive interventions Then the design of different magnetic actuation platforms used in micro and nanorobotics are described An overview of magnetic actuation based control methods for microrobots with eventually biomedical applications is also covered in this segment The third theme discusses the various nanomanipulation strategies that are currently used in biomedicine for cell characterization injection fusion and engineering In vitro 3D cell culture has received increasing attention since it has been discovered to provide a better simulation environment of in vivo cell growth Nowadays the rapid progress of robotic technology paves a new path for the



highly controllable and flexible 3D cell assembly One chapter in this segment discusses the applications of micro nano robotic techniques for 3D cell culture using engineering approaches Because cell fusion is important in numerous biological events and applications such as tissue regeneration and cell reprogramming a chapter on robotic tweezers cell manipulation system to achieve precise laser induced cell fusion using optical trapping has been included in this volume Finally the segment ends with a chapter on the use of novel MEMS based characterization of micro scale tissues instead of mechanical characterization for cell lines studies

Volume 3 Image guided Surgical Procedures and Interventions focuses on several aspects ranging from understanding the challenges and opportunities in this domain to imaging technologies to image guided robotic systems for clinical applications The volume includes several contributions in the area of imaging in the areas of X Ray fluoroscopy CT PET MR Imaging Ultrasound imaging and optical coherence tomography Ultrasound based diagnostics and therapeutics as well as ultrasound guided planning and navigation are also included in this volume in addition to multi modal imaging techniques and its applications to surgery and various interventions The application of multi modal imaging and fusion in the area of prostate biopsy is also covered Imaging modality compatible robotic systems sensors and actuator technologies for use in the MRI environment are also included in this work as is the development of the framework incorporating image guided modeling for surgery and intervention Finally there are several chapters in the clinical applications domain covering cochlear implant surgery neurosurgery breast biopsy prostate cancer treatment endovascular interventions neurovascular interventions robotic capsule endoscopy and MRI guided neurosurgical procedures and interventions

Volume 4 Rehabilitation Robotics is dedicated to the state of the art of an emerging interdisciplinary field where robotics sensors and feedback are used in novel ways to relearn improve or restore functional movements in humans This volume attempts to cover a number of topics relevant to the field The first section addresses an important activity in our daily lives walking where the neuromuscular system orchestrates the gait posture and balance Conditions such as stroke vestibular deficits or old age impair this important activity Three chapters on robotic training gait rehabilitation and cooperative orthoses describe the current works in the field to address this issue The second section covers the significant advances in and novel designs of soft actuators and wearable systems that have emerged in the area of prosthetic lower limbs and ankles in recent years which offer potential for both rehabilitation and human augmentation These are described in two chapters The next section addresses an important emphasis in the field of medicine today that strives to bring rehabilitation out from the clinic into the home environment so that these medical aids are more readily available to users The current state of the art in this field is described in a chapter The last section focuses on rehab devices for the pediatric population Their impairments are life long and rehabilitation robotics can have an even bigger impact during their lifespan In recent years a number of new developments have been made to promote mobility socialization and rehabilitation among the very young the infants and toddlers These aspects are summarized in two chapters of this volume

Mechanical Variables

Measurement - Solid, Fluid, and Thermal John G. Webster, 2023-06-14 Accuracy in the laboratory setting is key to maintaining the integrity of scientific research Inaccurate measurements create false and non reproducible results rendering an experiment or series of experiments invalid and wasting both time and money This handy guide to solid fluid and thermal measurement helps minimize this pitfall through careful detailing of measurement techniques Concise yet thorough Mechanical Variables Measurement Solid Fluid and Thermal describes the use of instruments and methods for practical measurements required in engineering physics chemistry and the life sciences Organized according to measurement problem the entries are easy to access The articles provide equations to assist engineers and scientists who seek to discover applications and solve problems that arise in areas outside of their specialty Sections include references to more specialized publications for advanced techniques as well It offers instruction for a range of measuring techniques basic through advanced that apply to a broad base of disciplines As an engineer scientist designer manager researcher or student you encounter the problem of measurement often and realize that doing it correctly is pivotal to the success of an experiment This is the first place to turn when deciding on performing and troubleshooting the measurement process Mechanical Variables Measurement Solid Fluid and Thermal leads the reader step by step through the straits of experimentation to triumph

**Robot Tactile Sensing** R. Andrew Russell, 1990 This work introduces tactile sensing for those engaged in advanced sensor based robotics with special reference to problems of addressing arrays of sensor elements It describes tactile sensors to register contact surface profile thermal properties and other tactile sensing modes The use of robot manipulators to provide mobility for tactile sensors and techniques for applying tactile sensing in robotic manipulation and recognition tasks are also covered The various applications of this technology are discussed and robot hands and grips are detailed

Soft Robotics for Medical and Healthcare Applications Shaik Himam Saheb, Tharakeshwar Appala, Mohammad S Khan, 2025-06-25 Soft robotics is an emerging field that involves the development and application of robots and robotic systems made from soft and flexible materials Soft Robotics for Medical and Healthcare Applications discusses the use of soft robotics in minimally invasive vascular surgery for clubfoot and filariasis leg The title Discusses soft robot design which is helpful for researchers and students to design the mechanisms for problems like filariasis leg and personalized rehabilitation devices Covers metal additive manufacturing processes used for soft robot parts printing Explains design actuation manufacturing and analysis of soft robots for healthcare applications Explores 3D and 4D printing for soft robotics data driven soft robotics and the use of soft robotics in drug delivery Presents case studies including the creation of custom filariasis limbs and the application of soft robots in minimally invasive vascular surgery The text is primarily written for senior undergraduates graduate students and academic researchers in fields including electrical engineering electronics and communications engineering computer engineering and biomedical engineering

Flexible Robotics in Medicine Hongliang Ren, 2020-06-20 Flexible Robotics in Medicine A Design Journey of Motion Generation Mechanisms and Biorobotic System

Development provides a resource of knowledge and successful prototypes regarding flexible robots in medicine With specialists in the medical field increasingly utilizing robotics in medical procedures it is vital to improve current knowledge regarding technologies available This book covers the background medical requirements biomedical engineering principles and new research on soft robots including general flexible robotic systems design specifications design rationale fabrication verification experiments actuators and sensors in flexible medical robotic systems Presenting several projects as examples the authors also discuss the pipeline to develop a medical robotic system including important milestones such as involved regulations device classifications and medical standards Covers realistic prototypes experimental protocols and design procedures for engineering flexible medical robotics Covers the full product development pipeline for engineering new flexible robots for medical applications including design principles and design verifications Includes detailed information for application and development of several types of robots including Handheld Concentric Tube Flexible Robot for Intraocular Procedures a Preliminary Robotic Surgery Platform with Multiple Section Tendon Driven Mechanism a Flexible Drill for Minimally Invasive Transoral Surgical Robotic System Four Tendon Driven Flexible Manipulators Slim Single port Surgical Manipulator with Spring Backbones and Catheter size Channels and much more Medical and Healthcare Robotics Olfa Boubaker,2023-08-01 Medical and Healthcare Robotics New Paradigms and Recent Advances provides an overview and exclusive insights into current trends the most recent innovations and concerns in medical robotics The book covers the major areas of medical robotics including rehabilitation devices artificial organs assistive technologies service robotics and robotic devices for surgery exploration diagnosis therapy and training It highlights the limitations and the importance of robotics and artificial intelligence for medical and healthcare applications The book is a timely and comprehensive reference guide for undergraduate level students graduate students and researchers in the fields of electrical engineering mechanical engineering mechatronics control systems engineering and biomedical engineering It can be useful for master s programs leading consultants and industrial companies The book can be of high interest for physicians and physiotherapists and all technical people in the medical and biomedical fields Covers the main areas of medical and healthcare robotics Presents the most recent innovations and trends in medical and healthcare robotics Contains chapters written by eminent researchers in the field *Medicine Meets Virtual Reality 18* James D. Westwood,2011 Since the debut of the Medicine Meets Virtual Reality MMVR conference in 1992 MMVR has served as a forum for researchers harnessing IT advances for the benefit of patient diagnosis and care medical education and procedural training At MMVR virtual reality becomes a theatre for medicine where multiple senses are engaged sight sound and touch and language and image fuse Precisely because this theatre is unreal it is a valuable tool the risks of experimentation and failure are gone while the opportunity to understand remains Improvement of this tool through steady technological progress is the purpose of MMVR This book presents papers delivered at the MMVR18 NextMed conference held in Newport Beach California in February 2011 with contributions from

international researchers whose work creates new devices and methods at the juncture of informatics and medicine Subjects covered include simulation and learning visualization and information guided therapy robotics and haptics virtual reality and advanced ICT in Europe validation of new surgical techniques and many other applications of virtual reality technology As its name suggests the NextMed conference looks forward to the expanding role that virtual reality can play in global healthcare This overview of current technology will interest those who dedicate themselves to improving medicine through technology

Sensors and Sensing in Biology and Engineering Friedrich G. Barth, Joseph A.C. Humphrey, Timothy W.

Secomb, 2012-12-06 Biological sensors are usually remarkably small sensitive and efficient It is highly desirable to design corresponding artificial sensors for scientific industrial and commercial purposes This book is designed to fill an urgent need for interdisciplinary exchange between biologists studying sensors in the natural world and engineers and physical scientists developing artificial sensors Contributions from leading scientists in this area whether engineers or biologists are written to be accessible to readers from these and other disciplines The main topics cover mechanical sensors visual sensors and vision and chemosensors Readers will obtain a fuller understanding of the nature and performance of natural sensors as well as enhanced appreciation for the current status and the potential applicability of artificial microsensors Friedrich G Barth was awarded the Karl Ritter von Frisch Medaille at the 2003 Annual Conference of the German Zoological Society in Halle Germany

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