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Microsensing Networks for Sustainable Cities

Microsensing Networks For Sustainable Cities Smart Sensors Measurement And Instrumentation

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Microsensing Networks For Sustainable Cities Smart Sensors Measurement And Instrumentation:

Microsensing Networks for Sustainable Cities Johannes Lambrechts, Saurabh Sinha, 2016-01-20 This book explores the microsensing technologies and systems now available to monitor the quality of air and water within the urban environment and examines their role in the creation of sustainable cities against the background of the challenges posed by rapid urbanization The opening section addresses the theoretical and conceptual background of microsensing networks The coverage includes detailed description of microsensors supported by design specific equations and clear explanation of the ways in which devices that harvest energy from ambient sources can detect and quantify pollution The practical application of such systems in addressing environmental impacts within cities and in sustainable urban planning is then discussed with the aid of case studies in developing countries The book will be of interest to all who wish to understand the benefits of microsensing networks in promoting sustainable cities through better delivery of information on health hazards and improved provision of data to environmental agencies and regulatory bodies in order to assist in monitoring decision making and regulatory enforcement

Nanosensors for Smart Cities Baoguo Han, Vijay Tomer, Tuan Anh Nguyen, Ali Farmani, Pradeep Kumar Singh, 2020-02-13 Nanosensors for Smart Cities covers the fundamental design concepts and emerging applications of nanosensors for the creation of smart city infrastructures Examples of major applications include logistics management where nanosensors could be used in active transport tracking devices for smart tracking and tracing and in agri food productions where nanosensors are used in nanochips for identity and food inspection and smart storage This book is essential reading for researchers working in the field of advanced sensors technology smart city technology and nanotechnology and stakeholders involved in city management Nanomaterials based sensors nanosensors can offer many advantages over their microcounterparts including lower power consumption high sensitivity lower concentration of analytes and smaller interaction distance between object and sensor With the support of artificial intelligence AI tools such as fuzzy logic genetic algorithms neural networks and ambient intelligence sensor systems are becoming smarter Provides information on the fabrication and fundamental design concepts of nanosensors for intelligent systems Explores how nanosensors are being used to better monitor and maintain infrastructure services including street lighting traffic management and pollution control Assesses the challenges for creating nanomaterials enhanced sensors for mass market consumer products

Advanced Nanomaterials for Inexpensive Gas Microsensors Eduard Llobet Valero, 2019-11-13 Advanced Nanomaterials for Inexpensive Gas Microsensors Synthesis Integration and Applications presents full coverage in the area of gas sensing nanomaterials from materials transducers and applications to the latest results and future direction Experts present work on metal oxides carbon based and hybrid materials fabrication and application The book brings together three major themes including synthesis functionalization and the characterization of advanced nanomaterials all emphasizing synthesis techniques that ease the integration of nanomaterials in transducers Chapters encompass a wide

spectrum of sensing technologies including advanced nanomaterials metal oxides carbon materials and graphene and organic molecular materials and atomic layers MoS₂ The book's authors examine the coupling of sensitive nanomaterials to different types of transducer elements and their applications including direct growth and additive fabrication techniques as a way to obtain inexpensive gas microsensors principal transduction schemes and advanced operating methods Presents technological solutions and applications of gas sensors in varied areas of chemistry physics material science and engineering Examines advanced operating methods e.g. temperature modulation self heating light activated response noise methods to enhance stability sensitivity selectivity and reduce power consumption Provides a critical review of current applications and their expected future evolution demonstrating the most promising approaches and future expectations in the development of inexpensive gas micro and nanosensors

Smart Energy for Transportation and Health in a Smart City Chun Sing Lai, Loi Lai, Qi Hong Lai, 2022-11-21 *Smart Energy for Transportation and Health in a Smart City* A comprehensive review of the advances of smart cities smart energy transportation infrastructure and health *Smart Energy for Transportation and Health in a Smart City* offers an essential guide to the functions characteristics and domains of smart cities and the energy technology necessary to sustain them The authors noted experts on the topic include theoretical underpinnings practical information and potential benefits for the development of smart cities The book includes information on various financial models of energy storage the management of networked micro grids coordination of virtual energy storage systems reliability modeling and assessment of cyber space and the development of a vehicle to grid voltage support The authors review smart transportation elements such as advanced metering infrastructure for electric vehicle charging power system dispatching with plug in hybrid electric vehicles and best practices for low power wide area network technologies In addition the book explores smart health that is based on the Internet of Things and smart devices that can help improve patient care processes and decrease costs while maintaining quality This important resource Examines challenges and opportunities that arise with the development of smart cities Presents state of the art financial models of smart energy storage Clearly explores elements of a smart city based on the advancement of information and communication technology Contains a review of advances in smart health for smart cities Includes a variety of real life case studies that illustrate various components of a smart city Written for practicing engineers and engineering students *Smart Energy for Transportation and Health in Smart Cities* offers a practical guide to the various aspects that create a sustainable smart city

International Aerospace Abstracts, 1998

Sensor Network Methodologies for Smart Applications Krit, Salahddine, B?la?, Valentina Emilia, Elhoseny, Mohamed, Benlamri, Rachid, B?la?, Marius M., 2020-06-26 Technologies in today's society are rapidly developing at a pace that is challenging to stay up to date with As an increasing number of global regions are implementing smart methods and strategies for sustainable development they are continually searching for modern advancements within computer science sensor networks software engineering and smart technologies A compilation of research is needed that displays current

applications of computing methodologies in the progression of global cities and how smart technologies are being utilized

Sensor Network Methodologies for Smart Applications is a collection of innovative research on the methods of intelligent systems and technologies and their various applications within sustainable development practices While highlighting topics including machine learning network security and optimization algorithms this book is ideally designed for researchers scientists developers programmers engineers educators policymakers geographers planners and students seeking current research on smart technologies and sensor networks *Who's Who in Science and Engineering 2008-2009* Who's Who Marquis, Marquis Who's Who, 2007-12 Intelligent Sensing, Instrumentation and Measurements Subhas Chandra Mukhopadhyay, 2013-03-21 **Intelligent Sensing Instrumentation and Measurements** addresses issues towards the development of sensor nodes for wireless Sensor Networks The fundamentals of sensors interfacing power supplies configuration of sensor node and GUI development are covered The book will be useful for engineers and researchers in the field especially for higher undergraduate and postgraduate students as well as practitioners working on the development of Wireless Sensor Networks or Smart Sensors **Sensor Networks for Sustainable Development** Mohammad Ilyas, Sami S. Alwakeel, Mohammed M. Alwakeel, el-Hadi M. Aggoune, 2017-12-19 Recent advances in technology and manufacturing have made it possible to create small powerful energy efficient cost effective sensor nodes for specialized telecommunication applications nodes smart enough to be capable of adaptation self awareness and self organization **Sensor Networks for Sustainable Development** examines sensor network technologies that increase the quality of human life and encourage societal progress with minimal effect on the earth's natural resources and environment Organized as a collection of articles authored by leading experts in the field this valuable reference captures the current state of the art and explores applications where sensor networks are used for sustainable development in Agriculture Environment Energy Healthcare Transportation Disaster management Beneficial to designers and planners of emerging telecommunication networks researchers in related industries and students and academia seeking to learn about the impact of sensor networks on sustainable development **Sensor Networks for Sustainable Development** provides scientific tutorials and technical information about smart sensor networks and their use in everything from remote patient monitoring to improving safety on the roadways and beyond

Wireless Sensor Networks and Ecological Monitoring Subhas C Mukhopadhyay, Joe-Air Jiang, 2013-02-11 This book presents the state of the art technologies and solutions to tackle the critical challenges faced by the building and development of the WSN and ecological monitoring system but also potential impact on society at social medical and technological level This book is dedicated to Sensing systems for Sensors Wireless Sensor Networks and Ecological Monitoring The book aims at Master and PhD degree students researchers practitioners especially WSN engineers involved with ecological monitoring The book will provide an opportunity of a dedicated and a deep approach in order to improve their knowledge in this specific field Smart Sensor Networks Umang Singh, Ajith Abraham, Arturas Kaklauskas, Tzung-Pei

Hong,2021-09-01 This book provides IT professionals educators researchers and students a compendium of knowledge on smart sensors and devices types of sensors data analysis and monitoring with the help of smart sensors decision making impact of machine learning algorithms and artificial intelligence related methodologies for data analysis and understanding of smart applications in networks Smart sensor networks play an important role in the establishment of network devices which can easily interact with physical world through plethora of variety of sensors for collecting and monitoring the surrounding context and allowing environment information Apart from military applications smart sensor networks are used in many civilian applications nowadays and there is a need to manage high volume of demands in related applications This book comprises of 9 chapters and presents a valuable insight on the original research and review articles on the latest achievements that contributes to the field of smart sensor networks and their usage in real life applications like smart city smart home e healthcare smart social sensing networks etc Chapters illustrate technological advances and trends examine research opportunities highlight best practices and standards and discuss applications and adoption Some chapters also provide holistic and multiple perspectives while examining the impact of smart sensor networks and the role of data analytics data sharing and its control along with future prospects **Sensors and Actuators in Smart Cities** Mohammad

Hammoudeh,Mounir Arioua,2018-05-04 This book is a printed edition of the Special Issue Sensors and Actuators in Smart Cities that was published in JSAN *Wireless Sensor and Actuator Networks for Smart Cities* Burak Kantarci,Sema

Oktug,2019-01-15 This book is a printed edition of the Special Issue Wireless Sensor and Actuator Networks for Smart Cities that was published in JSAN [Citizen in Sensor Networks](#) Jordi Nin,Daniel Villatoro,2013-12-19 This book constitutes the

proceedings of the Second International Conference on Citizen Sensor Networks CitiSens 2013 held in Barcelona Spain in September 2013 The 8 papers presented in this volume were carefully reviewed and selected from 16 submissions The topics covered are trajectory mining smart cities multi agents systems networks simulation smart sensors and clustering or data anonymization **The Rise of Smart Cities** Amir Hossein Alavi,Maria Feng,Pengcheng Jiao,Zahra

Sharif-Khodaei,2022-04-12 The Rise of Smart Cities Advanced Structural Sensing and Monitoring Systems provides engineers and researchers with a guide to the latest breakthroughs in the deployment of smart sensing and monitoring technologies The book introduces readers to the latest innovations in the area of smart infrastructure enabling technologies and howthey can be integrated into the planning and design of smart cities With this book in hand readers will find a valuable reference in terms of civil infrastructure health monitoring advanced sensor network architectures smart sensing materials multifunctional material and structures crowdsourced social sensing remote sensing and aerial sensing and advanced computation in sensornetworks Reviews the latest development in smart structural health monitoring SHM systems Introduces all major algorithms with a focus on practical implementation Includes real world applications and case studies Opens up a new horizon for robust structural sensing methods and their applications in smart cities **Smart**

Sensors Networks Fatos Xhafa, Fang-Yie Leu, Li-Ling Hung, 2017-06-14 Smart Sensors Networks Communication Technologies and Intelligent Applications explores the latest sensor and sensor networks techniques and applications showing how networked wireless sensors are used to monitor and gather intelligence from our surrounding environment It provides a systematic look at the unique characteristics of wireless sensor networks through their usage in a broad range of areas including healthcare for the elderly energy consumption industrial automation intelligent transportation systems smart homes and cities and more The book shows how sensor networks work and how they are applied to monitor our surrounding environment It explores the most important aspects of modern sensors technologies providing insights on the newest technologies and the systems needed to operate them Readers will find the book to be an entry point for understanding the fundamental differences between the various sensor technologies and their use in for different scenarios Indexing The books of this series are submitted to EI Compendex and SCOPUS Presents numerous specific use cases throughout showing practical applications of concepts Contains contributions from leading experts around the globe Collects in one place the latest thinking on an emerging topic Addresses the security and privacy issues inherent in sensor deployment

Sensor Technologies Michael J. McGrath, Cliodhna Ni Scanail, 2013-12-17 Sensor Technologies Healthcare Wellness and Environmental Applications explores the key aspects of sensor technologies covering wired wireless and discrete sensors for the specific application domains of healthcare wellness and environmental sensing It discusses the social regulatory and design considerations specific to these domains The book provides an application based approach using real world examples to illustrate the application of sensor technologies in a practical and experiential manner The book guides the reader from the formulation of the research question through the design and validation process to the deployment and management phase of sensor applications The processes and examples used in the book are primarily based on research carried out by Intel or joint academic research programs Sensor Technologies Healthcare Wellness and Environmental Applications provides an extensive overview of sensing technologies and their applications in healthcare wellness and environmental monitoring From sensor hardware to system applications and case studies this book gives readers an in depth understanding of the technologies and how they can be applied I would highly recommend it to students or researchers who are interested in wireless sensing technologies and the associated applications Dr Benny Lo Lecturer The Hamlyn Centre Imperial College of London This timely addition to the literature on sensors covers the broad complexity of sensing sensor types and the vast range of existing and emerging applications in a very clearly written and accessible manner It is particularly good at capturing the exciting possibilities that will occur as sensor networks merge with cloud based big data analytics to provide a host of new applications that will impact directly on the individual in ways we cannot fully predict at present It really brings this home through the use of carefully chosen case studies that bring the overwhelming concept of big data down to the personal level of individual life and health Dermot Diamond Director National Centre for Sensor Research Principal

Investigator CLARITY Centre for Sensor Web Technologies Dublin City University Sensor Technologies Healthcare Wellness and Environmental Applications takes the reader on an end to end journey of sensor technologies covering the fundamentals from an engineering perspective introducing how the data gleaned can be both processed and visualized in addition to offering exemplar case studies in a number of application domains It is a must read for those studying any undergraduate course that involves sensor technologies It also provides a thorough foundation for those involved in the research and development of applied sensor systems I highly recommend it to any engineer who wishes to broaden their knowledge in this area Chris Nugent Professor of Biomedical Engineering University of Ulster What you ll learn The relevant sensing approaches and the hardware and software components required to capture and interpret sensor data The importance of regulations governing medical devices A design methodology for developing and deploying successful home and community based technologies supported by relevant case studies Health wellness and environmental sensing applications and how they work The challenges and future directions of sensing in these domains Who this book is for Sensor Technologies Healthcare Wellness and Environmental Applications is targeted at clinical and technical researchers engineers and students who want to understand the current state of the art in sensor applications in these domains The reader gains a full awareness of the key technical and non technical challenges that must be addressed in the development of successful end to end sensor applications Real world examples help give the reader practical insights into the successful development deployment and management of sensor applications The reader will also develop an understanding of the personal social and ethical impact of sensor applications now and in the future Table of Contents Chapter One Introduction Chapter Goal Reader should understand the key challenges and drivers for sensor application development The reader should also understand how sensor technologies can play a role in addressing some of the key challenges facing global society in the short to medium term 1 Book overview 2 Drivers for Sensor Applications Infrastructure Growth in Developing Countries Advances in Energy Harvesting New Applications Cost reduction Real time monitoring of situations to avoid unplanned downtime Security personal and national the internet of things 3 Challenges for Sensor Applications Power Efficient Operation in Harsh Environments Number of Deployable Nodes Safety and Regulations High Cost of Installation Security and Reliability sensor management 4 Global Megatrends and the opportunities for sensing technologies o Water and Food Constraints o Aging Demographics o Public Health o Pandemics o Security Chapter 2 Sensing and Sensor Fundamentals Chapter Goal Reader should understand existing sensor technologies which can be used in healthcare wellness and environmental domains They should also understand the role of smart sensors and smart phones as mobile sensing platforms and aggregators 1 Sensing Modalities Mechanical MEMS Optical ISFET TAS 2 Sensing Domains Air Water Noise Bacterial Chemical Kinematic DNA Physiological 3 Functional Characterisation of Sensors o Communication methods discrete wired wireless o Smart Sensors and Sensor Platforms MSP430 SHIMMER and telosB motes ATmega PIC 4 Smart Phones as mobile sensor platforms 5

Selecting and specifying sensors Chapter 3 Key Sensor Technology Components Hardware and Software Overview Chapter Goal Reader should have a high level understanding of the key hardware and software components which are necessary for the development of sensors systems and why technologies are selected for specific applications 1 Overview Sensor systems 2 MCU s TI MSP430 ATmega PIC a ADCs b Interrupts c Real time Clocks 3 Sensor Interfaces a Digital b Analog c I2C 4 Communications wired and wireless interfaces RS232 485 USB Ethernet FieldbusProprietary Short Range Wireless Protocols e g ANT BodyLAN Sensium Standard Short Range Protocols i IEEE 802 15 6 ii Bluetooth Smart Bluetooth iii 802 15 4 iv UWB Medium Range i Wi Fi 5 Data storage EEPROM sd card data forwarding 6 Power management and Energy Harvesting 7 Operating Systems and Software Development Environments SDK s Chapter 4 Sensor Network Architectures Chapter Goal Reader should understand the various approaches to the design of sensor network architectures scaling from body worn systems to ambient sensing to city scale deployments The reader should also understand the advantages and disadvantages of current and evolving sensor network architectures 1 Sensor network architectures o Discrete Sensor o Sensor to aggregator o PAN WPAN smart clothing o Pervasive Ambient sensor networks o Wide area networks city wide country wide 2 Challenges in developing and deploying sensor networks 3 Current and Proposed Solutions o Remote sensor management o Edge Processing o Power harvesting o New communication standards Chapter 5 Adding Vibrancy to Sensor Data Chapter Goal Reader should understand the various methods to interpret and display sensor data to the user They will understand the importance of creating a data analysis plan from the outset and the different types of data analysis throughout the application stack 1 Data Literacy How can we intuitively answer questions with sensor data and contextualise answers 2 Data Quality a Calibration b Trust and Repudiation 3 Sensor Fusion combining sensory data from disparate sources 4 Data Mining 5 Data Visualisation 6 Openness data integration virtual sensors 7 Exploiting the power of the cloud Chapter 6 Regulation and Standards Chapter Goal Reader should understand the key technologies which impact or influence the development of sensor deployment and applications including the emerging standards and regulatory considerations 1 Regulatory Standards US EU Japan why which and how standards impact your application 2 Regulatory Issues Certification 3 Smartphones Considerations o Privacy and data security 4 Standards Bodies and Industry Groups o Continua Healthcare Alliance o ISO IEEE 11073 5 Wearable Wireless Health Communication Standards Chapter 7 Biosensing in Everyday Life Driving Biocontextual Aware Computing Chapter Goal Reader should understand the social relationships that create opportunities and barriers for widespread consumer based biosensing The reader should understand how the social world is shifting from sensor technologies of should to sensor technologies of could to facilitate new understandings of health and wellness and drive new methods and practices of personal data sharing 1 Data Security and Ownership Sharing and Managing Personal Data 2 Game Changing Pressure for Affordable Healthcare 3 Continuous Personal Data is Improving Lives 4 Emerging Tech Empowered Citizens 5 Sensing for Self Discovery Culture and Play 6 User feedback Supporting sustainable human

behaviours leveraging the gaming culture Chapter 8 Development and Deployment of Sensor Technologies for Home and Community Settings Chapter Goal Reader should understand how to design a sensor deployment for a home or community The chapter informs the reader how to formulate the research question the deployment will address how to develop prototypes and manage and deploy them successfully The chapter will finish with exemplar case studies of real world sensor deployments Study Design The Right Question Home Deployment Elements Home Deployment Management The Prototyping Design Process Case Studies Chapter 9 Body Worn and Ambient Sensor Applications for Assessment Monitoring and Diagnostics Chapter Goal Reader should at the end of this chapter have an understanding of the key characteristics of how body worn and ambient sensor applications and how they vary according to the domain in which they are deployed The reader will be presented with the key challenges faced in each domain and emerging solutions for these challenges 1 Drivers and Inhibitors Incidence of chronic diseases aging demographics Adjusting provider compensation prevention medical work practice changes 2 Hospital based sensing for assessment and diagnosis 3 Supervised Assessment and Monitoring in Community Settings 4 Home Based Applications o Clinical grade sensing for patient monitoring o Body worn sensing e g PERS for monitoring and alerting o Passive sensing for monitoring and alerting e g ADL s 5 Key challenges Chapter 10 Wellness Fitness and Lifestyle Chapter Goal Reader should understand the key trends in how people use body worn sensors to manage their fitness and wellbeing Key applications include sensors for measuring activities in sports performance activity weight management and sleep tracking 1 Drivers and Inhibitors 2 Sports and fitness applications running walking cycling field sports Vital signs and physiological parameters Fitness gaming Wii Fit Kinect muscle movement body stress levels speed distance location Fitness Statistics and Analysis 3 Outdoor Activities o Pressure mountaineer and paragliding o GPS hiking cycling golf 4 Obesity and weight management 5 Sleep o Baby Monitoring o Sleep Quality health and social impacts o Sleep Apnoea Chapter 11 Environmental Monitoring for Health and Wellness Chapter Goal Reader should understand how sensors and sensor networks are used for environmental monitoring one of the key emerging applications domains Apart from disaster monitoring sensing also has the potential for air quality weather monitoring pollution etc with benefits for both urban and rural dwellers 1 Drivers and Inhibitors o Correlations to health impacts 2 Home Sensing o Carbon Monoxide o Smoke Detectors o Passive Infrared PIR o Temperature o Sound o Sustainable Living 3 Smart Environments 4 Environmental Parameters Noise Water Bacteria Air Quality Radiation Urban Heat Islands 5 Weather Exceptional Event and Disaster Management Intelligence Chapter 12 Conclusions and Future Directions Chapter Goal Reader should understand the key conclusions that the authors have outlined in the previous chapters The reader should also gain an understanding of the key trends which will affect future sensor applications and how people will utilise these novel applications in their everyday lives 1 Summary of the overall conclusions 2 Future Directions for Sensing o Use Centred Healthcare o Citizen centric sensing o Influence of urbanisation on health wellness and lifestyle choices o Sustainable human behaviour change **Smart**

Emission - An Urban Citizen-sensor-network Approach. - Klein Innovatie Project, Leer-pilot Met Testbed , Inclusive Citizen Sensing Transparency and democracy of pollution monitoring Citizen sensor networks for fine grained measurements Assess fine grained measurements make time space cross cuttings visualize health maps Data piping through channels using SOS Sensor no empty cockpit Brining together the best of experts crowds and systems algorithms for learning transacting teaching prioritizing Boulos et al 2011 Crowdsourcing citizen sensing and sensor web technologies for public and environmental health surveillance and crisis management trends OGC standards and application examples Visual Josene small sensor network in the city using wifi https vimeo com 128993807 https vimeo com 128993807 https vimeo com 128993807 https vimeo com 128993807 https vimeo com 128993807 Citizen sensor network Nijmegen Visual Josene small sensor network in the city using wifi https vimeo com 128993807 https vimeo com 128993807 https vimeo com 128993807 https vimeo com 128993807 Battery-Free Sensor Networks for Sustainable Next-Generation IoT Connectivity G. S. Karthick,2025-02-07 Battery free sensor networks emerge as a pivotal technology for enabling sustainable next generation Internet of Things IoT connectivity These networks leverage energy harvesting techniques such as solar thermal or radiofrequency RF energy to power sensors and devices eliminating the need for traditional batteries This reduces the environmental impact of battery disposal while extending the operational lifetime of IoT devices making them more reliable and cost effective By harnessing energy sources battery free sensor networks hold the potential to revolutionize applications in smart cities industrial monitoring healthcare and agriculture contributing to the development of energy efficient self sustaining IoT systems Battery Free Sensor Networks for Sustainable Next Generation IoT Connectivity explores contemporary developments in battery free sensor networks and their pivotal role in advancing sustainable connectivity within the next generation IoT landscape It delves into the latest advancements challenges and applications of battery free sensor technologies offering insights into their design principles energy harvesting techniques communication protocols and deployment strategies This book covers topics such as healthcare monitoring sensor technology and sustainability and is a useful resource for engineers scientists environmentalists business owners academicians researchers and security professionals

Wireless Sensor and Actuator Networks for Smart Cities Burak Kantarci,Sema Oktug,2018 Our lives are being transformed by the interplay between mobile networks wireless communications and artificial intelligence This transformation is an outcome of the emerging Internet of Things IoT concept and advancements in computer architecture that translate into high computing power high performance processing and huge memory capacities In addition to the IoT cyber physical systems aim for the seamless integration of physical systems with computing and communication resources Furthermore in urban areas the integration of software defined sensor networks and sensing as a service concepts with legacy WSN based systems is leading to the transformation of conventional city services towards smart cities Smart energy smart driving smart homes smart living smart governance and smart health are just a few services that smart cities can offer

This book focuses on novel solutions for wireless sensor and actuator networks in smart cities This Special Issue invites academic and industry researchers in computer science and engineering electrical engineering and communication engineering as well as ICT industry engineers and practitioners to contribute original articles in all aspects of wireless sensor networks and actuator systems for smart cities

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