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Un Robot Con Arduino

Costruire Un Robot Con Arduino

Want to create devices that interact with the physical world? This cookbook is perfect for anyone who wants to experiment with the popular Arduino

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microcontroller and programming environment. You'll find more than 200 tips and techniques for building a variety of objects and prototypes such as IoT solutions, environmental monitors, location and position-aware systems, and products that can respond

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to touch, sound, heat, and light. Updated for the Arduino 1.8 release, the recipes in this third edition include practical examples and guidance to help you begin, expand, and enhance your projects right away—whether you're an engineer, designer, artist,

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student, or hobbyist. Get up to speed on the Arduino board and essential software concepts quickly Learn basic techniques for reading digital and analog signals Use Arduino with a variety of popular input devices and sensors Drive visual displays, generate

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sound, and control several types of motors Connect Arduino to wired and wireless networks Learn techniques for handling time delays and time measurement Apply advanced coding and memory-handling techniques
DIY è acronimo di Do It Yourself,

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ovvero Fai Da Te. Oggi come non mai la robotica è alla portata di tutti e il DIY assume in questo ambito un nuovo e affascinante significato: amanti dell'hardware, hobbisti e creativi hanno la possibilità di produrre a basso costo piccoli ma sofisticati robot

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in grado di agire autonomamente in risposta a stimoli esterni o a comandi del proprio padrone. Come iniziare? Rimboccandosi le maniche e iniziando a sperimentare. Lo scopo di questo libro non è parlare di robotica, ma fare robotica, aiutando i lettori a dare

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forma e vita alle idee. Si parte fornendo elementi indispensabili di meccanica ed elettronica, con indicazioni chiare su quale materiale usare e dove reperirlo. Quindi si passa ad argomenti più vicini all'informatica, spalancando le porte alla

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programmazione e all'utilizzo di Arduino in progetti di complessità crescente. Capitolo dopo capitolo il lettore entra in un mondo fatto di circuiti integrati e motori elettrici, schede audio, sintetizzatori e robot che interagiscono con l'ambiente che li

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circonda o che vengono controllati via Internet. La trattazione è resa più semplice grazie a diagrammi, immagini ed esempi pratici.

This open access book contains observations, outlines, and analyses of educational robotics methodologies

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and activities, and developments in the field of educational robotics emerging from the findings presented at FabLearn Italy 2019, the international conference that brought together researchers, teachers, educators and practitioners to discuss the principles

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of Making and educational robotics in formal, non-formal and informal education. The editors' analysis of these extended versions of papers presented at FabLearn Italy 2019 highlight the latest findings on learning models based on Making and

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educational robotics. The authors investigate how innovative educational tools and methodologies can support a novel, more effective and more inclusive learner-centered approach to education. The following key topics are the focus of discussion: Makerspaces

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and Fab Labs in schools, a maker approach to teaching and learning; laboratory teaching and the maker approach, models, methods and instruments; curricular and non-curricular robotics in formal, non-formal and informal education; social

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and assistive robotics in education; the effect of innovative spaces and learning environments on the innovation of teaching, good practices and pilot projects.

Lin, Carlotta e Chiara hanno tredici anni e non hanno quasi nulla in

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comune. Tranne il luogo dove si ritrovano a passare l'estate: il campo estivo del CRAC, il Centro di Ricerche Avanzate in Coding creativo, nel cuore della Svizzera. Le tre, arrivate al campus con motivazioni assai diverse, diventano presto quattro: in camera

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con loro c'è infatti l'irrefrenabile Nina. Comincia così un'estate special in una «scuola» tutt'altro che tradizionale, dove a lezione può succedere qualunque cosa: ci si ritrova in giardino a superare un percorso a ostacoli, in cucina a sfidare una

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combinazione di ingredienti, in officina a smontare un motore, ma mai e poi mai ci sarà un'aula con i banchi e un professore in cattedra. Le amiche scopriranno che la tecnologia può essere uno strumento geniale, capace di aprire le porte ai loro sogni,

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cambiare il mondo... e risolvere qualche mistero, tra cui un intrigo con al centro un loro compagno di corso, il suo ricco ed equivoco zio e un pericolo che incombe sull'istituto. Un romanzo avvincente che tra computer e realtà virtuali parla di sentimenti molto veri:

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l'amore, l'amicizia, la lealtà e il coraggio. Un inno alla forza delle ragazze e all'importanza di pensare con la propria testa.

Getting Started with Processing.py
Fantastic Forces and Incredible
Machines

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Build Long Range, Low Power
Wireless IoT Networks
Research and Experiences from
FabLearn Italy 2019, in the Italian
Schools and Beyond
Making Interactive Graphics with
Processing's Python Mode

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A Practical Guide to the New
Industrial Revolution
Concorso a cattedra 2020 Scuola
primaria – Volume 1. Manuale
integrato per la preparazione: prova
preselettiva, prova scritta, prova orale
A broadly accessible

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introduction to robotics
that spans the most basic
concepts and the most novel
applications; for students,
teachers, and hobbyists. The
Robotics Primer offers a
broadly accessible
introduction to robotics for

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students at pre-university and university levels, robot hobbyists, and anyone interested in this burgeoning field. The text takes the reader from the most basic concepts (including perception and

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movement) to the most novel and sophisticated applications and topics (humanoids, shape-shifting robots, space robotics), with an emphasis on what it takes to create autonomous intelligent robot behavior.

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The core concepts of robotics are carried through from fundamental definitions to more complex explanations, all presented in an engaging, conversational style that will appeal to readers of

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different backgrounds. The Robotics Primer covers such topics as the definition of robotics, the history of robotics (“Where do Robots Come From?”), robot components, locomotion, manipulation, sensors,

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control, control
architectures,
representation, behavior
("Making Your Robot
Behave"), navigation, group
robotics, learning, and the
future of robotics (and its
ethical implications). To

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encourage further
engagement, experimentation,
and course and lesson
design, The Robotics Primer
is accompanied by a free
robot programming exercise
workbook that implements
many of the ideas on the

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book on iRobot platforms.
The Robotics Primer is
unique as a principled,
pedagogical treatment of the
topic that is accessible to
a broad audience; the only
prerequisites are curiosity
and attention. It can be

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used effectively in an educational setting or more informally for self-instruction. The Robotics Primer is a springboard for readers of all backgrounds—including students taking robotics as

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an elective outside the major, graduate students preparing to specialize in robotics, and K-12 teachers who bring robotics into their classrooms.

A hands-on, application-based introduction to

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machine learning and artificial intelligence (AI) that guides young readers through creating compelling AI-powered games and applications using the Scratch programming language. Machine learning

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(also known as ML) is one of the building blocks of AI, or artificial intelligence. AI is based on the idea that computers can learn on their own, with your help. Machine Learning for Kids will introduce you to machine

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learning, painlessly. With this book and its free, Scratch-based, award-winning companion website, you'll see how easy it is to add machine learning to your own projects. You don't even need to know how to code! As

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you work through the book you'll discover how machine learning systems can be taught to recognize text, images, numbers, and sounds, and how to train your models to improve their accuracy. You'll turn your models into

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fun computer games and apps, and see what happens when they get confused by bad data. You'll build 13 projects step-by-step from the ground up, including:

- Rock, Paper, Scissors game that recognizes your hand

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shapes • An app that recommends movies based on other movies that you like • A computer character that reacts to insults and compliments • An interactive virtual assistant (like Siri or Alexa) that obeys

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commands • An AI version of Pac-Man, with a smart character that knows how to avoid ghosts NOTE: This book includes a Scratch tutorial for beginners, and step-by-step instructions for every project. Ages 12+

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Il movimento dei maker, le stampanti 3D e Arduino hanno suscitato un nuovo interesse per l'hobbistica elettronica. Sempre più appassionati, curiosi, inventori e innovatori si avvicinano a nuove e potenti

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tecnologie per creare prototipi e circuiti complessi. Le potenzialità offerte dai nuovi strumenti sono innumerevoli e a volte strabilianti. Chiunque può programmare una scheda Arduino usando un semplice

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cavo USB e costruire droni,
robot e stampanti 3D. Per
realizzare progetti
veramente completi, però,
servono un po' di esperienza
e alcune conoscenze di base
che non sempre sono
facilmente reperibili in

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Rete. Questo libro non vuole essere un nuovo testo su Arduino o Raspberry Pi, trattati qui in modo marginale, ma propone al lettore una serie di approfondimenti teorici e pratici per comprendere

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l'affascinante materia dell'elettronica ed essere autonomi nello sviluppo dei propri progetti. Il testo include sezioni teoriche necessarie per spiegare e capire gli esperimenti oltre a esercizi e applicazioni

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pratiche. Che componenti si possono usare oltre a LED e pulsanti? Come funziona un transistor e a cosa serve? Come si amplifica un segnale? Come si alimenta un prototipo? Tutto quello che serve, insomma, per andare

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oltre la programmazione di Arduino e diventare un vero mago dell'elettronica per makers.

The book includes studies presented at the ATEE Spring Conference 2017 on emerging trends in the use of

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technology in educational processes, the use of robotics to facilitate the construction of knowledge, how to facilitate learning motivation, transformative learning, and innovative educational solutions.

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Chapters here are devoted to studies on the didactic aspects of technology usage, how to facilitate learning, and the social aspects affecting acquisition of education, among others. This volume serves as a

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basis for further discussions on the development of educational science, on topical research fields and practical challenges. It will be useful to scientists in the educational field who wish

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to get acquainted with the results of studies conducted in countries around the world on emerging educational issues.

Moreover, teachers who need to implement into practice the newest scientific

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findings and opinions and future teachers who need to acquire new knowledge will also find this book useful. Robôs - A Nova Era. Vivendo, trabalhando e investindo na sociedade robótica do futuro Makers at School,

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Educational Robotics and
Innovative Learning
Environments

A Project-Based Introduction
to Artificial Intelligence

Make: Bluetooth

A Designer's Guide to
Processing, Arduino, and

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Openframeworks

Arduino a scuola

Progetti per Maker con

Raspberry Pi

Costruire un robot con

ArduinoFranchini

RobertoRobôs - A Nova

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*Era. Vivendo,
trabalhando e investindo
na sociedade robótica do
futuroBabelcube Inc.*

*This book offers a
concise review of
quantum radar theory.*

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Our approach is pedagogical, making emphasis on the physics behind the operation of a hypothetical quantum radar. We concentrate our discussion on the

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*two major models
proposed to date:
interferometric quantum
radar and quantum
illumination. In
addition, this book
offers some new results,*

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including an analytical study of quantum interferometry in the X-band radar region with a variety of atmospheric conditions, a derivation of a quantum radar

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*equation, and a
discussion of quantum
radar jamming. This book
assumes the reader is
familiar with the basic
principles of non-
relativistic quantum*

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*mechanics, special
relativity, and
classical
electrodynamics. Our
discussion of quantum
electrodynamics and its
application to quantum*

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radar is brief, but all the relevant equations are presented in the text. In addition, the reader is not required to have any specialized knowledge on classical

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*radar theory. Table of
Contents: Introduction /
The Photon / Photon
Scattering / Classical
Radar Theory / Quantum
Radar Theory / Quantum
Radar Cross Section /*

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Conclusions

Robôs - A Nova Era.

*Vivendo, trabalhando e
investindo na sociedade
robótica do futuro. Por
Andrea Formi*

Questo manuale offre un

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*contributo alla
preparazione del
concorso per l'accesso
all'insegnamento nella
scuola primaria
attraverso un itinerario
articolato, al termine*

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*del quale il futuro
docente è posto in grado
di collocare l'azione
delle istituzioni
scolastiche e la propria
progettazione didattica
nel quadro ordinamentale*

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*di riferimento e di
coglierne la relazione
con le Indicazioni
nazionali, di disporre
degli strumenti
psicopedagogici e
metodologici per*

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*costruire una lezione
efficace, declinata
sugli specifici bisogni
educativi degli alunni e
delle alunne, e di
comprendere a pieno il
ruolo che egli stesso*

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*può giocare nell'ottica
del miglioramento
dell'istituzione
scolastica. In questa
prospettiva,
professionisti della
scuola - dirigenti*

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*scolastici e docenti -,
docenti universitari e
ricercatori analizzano
il contesto
organizzativo nel quale
il futuro docente sarà
inserito, ne delineano*

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*il profilo
professionale,
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psicopedagogico che
costituisce presupposto
fondamentale della*

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*progettazione
dell'attività didattica,
portano l'attenzione
sulle modalità di
gestione efficace della
classe e sulla creazione
di un buon clima*

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*relazionale prevenendo
l'insorgere del fenomeno
del bullismo, illustrano
le metodologie più
innovative in grado di
rendere gli alunni e le
alunne protagonisti del*

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*loro apprendimento,
fornendo altresì spunti
concreti per un proficuo
utilizzo delle
tecnologie nel processo
di insegnamento/apprendi-
mento.*

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Programming

Interactivity

Didactics of Smart

Pedagogy

Recipes to Begin,

Expand, and Enhance Your

Projects

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*invenzioni DIY per
hobbisti, artisti e
maker*

*A Practical Introduction
Costruisci il tuo robot
Straub's Manual of Mixed
Drinks*

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Make cool stuff. If you're a designer or artist without a lot of programming experience, this book will teach you to work with 2D and 3D graphics, sound, physical interaction, and electronic circuitry to create all sorts of interesting and

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compelling experiences -- online and off. Programming Interactivity explains programming and electrical engineering basics, and introduces three freely available tools created specifically for artists and designers: Processing, a Java-

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based programming language and environment for building projects on the desktop, Web, or mobile phones Arduino, a system that integrates a microcomputer prototyping board, IDE, and programming language for creating

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your own hardware and controls
OpenFrameworks, a coding
framework simplified for designers
and artists, using the powerful C++
programming language BTW, you
don't have to wait until you finish
the book to actually make

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something. You'll get working code samples you can use right away, along with the background and technical information you need to design, program, build, and troubleshoot your own projects. The cutting edge design techniques and

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discussions with leading artists and designers will give you the tools and inspiration to let your imagination take flight.

Presents an introduction to the open-source electronics prototyping platform.

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La tecnologia della stampa 3D si sta diffondendo sempre più velocemente nella nostra società. Progettare e produrre oggetti con queste macchine, oggi, è semplice ed economico. E così, le stampanti 3D, da prodotto di nicchia e per

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pochi iniziati, entreranno nelle nostre case e nei nostri uffici, per affiancare gli altri strumenti tecnologici che già caratterizzano la nostra vita. Queste macchine possono realizzare (quasi) ogni tipo di oggetto: basta sapere usare

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semplici programmi di modellazione 3D per trasformare le nostre idee in prodotti tridimensionali. Dall'idea ai bit e dai bit agli atomi: questa è la potenza della digital fabrication. Una nuova e rivoluzionaria tecnologia sta arrivando sulle

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nostre scrivanie e potrebbe stravolgere il modo con cui produciamo e compriamo gli oggetti.

Create your own LoRa wireless projects for non-industrial use and gain a strong basic understanding

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of the LoRa technology, LoRa WAN, and LPWAN. You'll start by building your first LoRa wireless channel and then move on to various interesting projects such as setting up networks with a LoRa gateway, communicating with IoT

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servers using RESTful API and MQTT protocol, and real-time GPS tracking. With LoRa wireless and LoRaWAN, you can build a wide array of applications in the area of smart agriculture, smart cities, smart environment, smart

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healthcare, smart homes and buildings, smart industrial control, smart metering, smart supply chain and logistics. Beginning LoRa Radio Networks with Arduino provides a practical introduction and uses affordable and easy to

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obtain hardware to build projects with the Arduino development environment. What You ' ll Learn Understand the hardware need to build LoRaWAN Use the Arduino development environment to write codeConnect to Arduino hardware

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and upload programs and
communicate with them Setup
networks with LoRa gateway Show
real time track with tail, and path
history Who This Book Is For
Inventors, hackers, crafters,
students, hobbyists, and scientists

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Progetta e realizza il tuo primo
robot

Beginning LoRa Radio Networks
with Arduino

Arduino Cookbook

The LEGO MINDSTORMS Robot
Inventor Activity Book

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120 idee per risolvere ogni
problema

IBA 2020. The New Cocktails. The
Official List

Elettronica per maker

This book will offer ideas on
how robots can be used as

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teachers' assistants to scaffold learning outcomes, where the robot is a learning agent in self-directed learning who can contribute to the development of key competences for today's world through targeted learning

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- such as engineering thinking, math, physics, computational thinking, etc. starting from pre-school and continuing to a higher education level.

Robotization is speeding up at the moment in a variety of

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dimensions, both through the automation of work, by performing intellectual duties, and by providing support for people in everyday situations. There is increasing political attention, especially in Europe,

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on educational systems not being able to keep up with such emerging technologies, and efforts to rectify this. This edited volume responds to this attention, and seeks to explore which pedagogical and

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educational concepts should be included in the learning process so that the use of robots is meaningful from the point of view of knowledge construction, and so that it is safe from the technological and cybersecurity

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perspective.

Le attività proposte in questo libro sono la sintesi di esperienze didattiche coinvolgenti e realmente vissute in classe con studenti soggetti attivi, costruttori del loro sapere

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supportati dall ' insegnante, perni di un ' organizzazione cooperante in cui ogni individuo riesce a dare qualcosa di pi ù di ci ò che potrebbe offrire con le sue sole forze. L ' introduzione della tecnologia in classe deve mirare

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ad esaltare la natura sociale della conoscenza e non la si può limitare all'uso esteriore o estemporaneo, ma deve diventare vissuto, esperienza, affinché gli studenti possano maturare la consapevolezza che

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la sperimentazione tecnologica
è oggi più che mai
un ' imprescindibile risorsa
conoscitiva.

Hai mai pensato di costruire un
tuo robot? Ora puoi farlo! Hai
bisogno solo di pochi attrezzi, di

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un assortimento di materiale domestico e dei fantastici progetti che trovi in questo libro! Con pochi e semplici passi imparerai a realizzare vari tipi di robot. Brushbot - Un piccolo robot che brilla e si agita... con

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un vecchio spazzolino elettrico.
Mousebot - Fai impazzire il tuo gatto con un robot che gironzola per la cucina guizzando di qua e di là . Hackbot - Smonta un vecchio gioco radiocomandato e trasformalo in un robot

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espandibile. Introduzione:
Costruire un robot - Progetto 1:
Un ' brushbot ', al volo! -
Progetto 2: un robot da
un ' automobilina - Progetto 3:
Costruire un mousebot -
Progetto 4: Hacking

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telecomandato - Note
dell ' autore.

Want to develop novel robot
applications, but don ' t know
how to write a mapping or
object-recognition system?

You ' re not alone, but you ' re

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certainly not without help. By combining real-world examples with valuable knowledge from the Robot Operating System (ROS) community, this practical book provides a set of motivating recipes for solving

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specific robotics use cases. Ideal for enthusiasts, from students in robotics clubs to professional robotics scientists and engineers, each recipe describes a complete solution using ROS open source libraries

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and tools. You ' ll learn how to complete tasks described in the recipes, as well as how to configure and recombine components for other tasks. If you ' re familiar with Python, you ' re ready to go. Learn

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fundamentals, including key ROS concepts, tools, and patterns Program robots that perform an increasingly complex set of behaviors, using the powerful packages in ROS See how to easily add

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perception and navigation abilities to your robots Integrate your own sensors, actuators, software libraries, and even a whole robot into the ROS ecosystem Learn tips and tricks for using ROS tools and

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community resources,
debugging robot behavior, and
using C++ in ROS
The LEGO MINDSTORMS EV3
Laboratory
Practical Problem-solving
Techniques for Computer-aided

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Engineering

Using Robots to Scaffold

Learning Outcomes

The Maker's Manual

Costruire un robot con Arduino

Smart Pedagogy for Technology

Enhanced Learning

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Getting Started with Arduino

The Maker's Manual is a practical and comprehensive guide to becoming a hero of the new industrial revolution. It features dozens of color images, techniques to transform your ideas into physical projects, and must-have skills like electronics prototyping, 3d

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printing, and programming. This book's clear, precise explanations will help you unleash your creativity, make successful projects, and work toward a sustainable maker business. Written by the founders of Frankenstein Garage, which has organized courses since 2011 to help makers to realize

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their creations, The Maker's Manual answers your questions about the Maker Movement that is revolutionizing the way we design and produce things.

The LEGO® MINDSTORMS® EV3 set offers so many new and exciting features that it can be hard to know

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where to begin. Without the help of an expert, it could take months of experimentation to learn how to use the advanced mechanisms and numerous programming features. In The LEGO MINDSTORMS EV3 Laboratory, author Daniele Benedettelli, robotics expert and

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member of the elite LEGO MINDSTORMS Expert Panel, shows you how to use gears, beams, motors, sensors, and programming blocks to create sophisticated robots that can avoid obstacles, walk on two legs, and even demonstrate autonomous behavior. You'll also dig into related

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math, engineering, and robotics concepts that will help you create your own amazing robots. Programming experiments throughout will challenge you, while a series of comics and countless illustrations inform the discussion and keep things fun. As you make your way through the book,

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you'll build and program five wicked cool robots: – ROV3R, a vehicle you can modify to do things like follow a line, avoid obstacles, and even clean a room – WATCHGOOZ3, a bipedal robot that can be programmed to patrol a room using only the Brick Program App (no computer required!)

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– SUP3R CAR, a rear-wheel-drive armored car with an ergonomic two-lever remote control – SENTIN3L, a walking tripod that can record and execute color-coded sequences of commands – T-R3X, a fearsome bipedal robot that will find and chase down prey With The LEGO

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illustrations, this amazing STEM book helps you distinguish your racks from your ratchets and your cams from your cranks. The STEM editorial consultant is Georgette Yakman, founding researcher and creator of the integrative STEAM framework. The focus on smart education has

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become a new trend in the global educational field. Some countries have already developed smart education systems and there is increasing pressure coming from business and tech communities to continue this development. Simultaneously, there are only fragmented studies on the

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didactic aspects of technology usage. Thus, pedagogy as a science must engage in a new research direction—smart pedagogy. This book seeks to engage in a new research direction, that of smart pedagogy. It launches discussions on how to use all sorts of smart education solutions in

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the context of existing learning theories and on how to apply innovative solutions in order to reduce the marginalization of groups in educational contexts. It also explores transformations of pedagogical science, the role of the educator, applicable teaching methods, learning

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outcomes, and research and assessment of acquired knowledge in an effort to make the smart education process meaningful to a wide audience of international educators, researchers, and administrators working within and tangential to TEL.

Il manuale di Arduino

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Stampa 3D. Stazione futuro

Prontuario per il docente

professionista competente nelle
didattiche digitali

Smart Learning with Educational
Robotics

A Practical Introduction to the Robot
Operating System

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Robot Fai Da Te

The Robotics Primer

Con Arduino è possibile costruire ogni tipo di prototipo e oggetto interattivo: dal termostato alla stampante 3D, passando per droni e robot. Per

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costruire circuiti, collegare sensori e attuatori, scrivere del software, maker e inventori devono però avere un bagaglio di competenze e una bella dose di intuito: dopo il successo del Manuale di Arduino, Paolo

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Aliverti mette a disposizione in questo libro i suoi “trucchi” per imparare nuove tecniche o risolvere i problemi comuni a ogni progettista, con particolare attenzione alla scrittura degli algoritmi e alla composizione

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dell'hardware. Sono oltre 120 i trucchi e segreti descritti, indispensabili per diventare veri esperti di Arduino. Una guida adatta a tutti gli appassionati di Arduino, sia al principiante sia all'utente avanzato, che in

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modo semplice e chiaro
accompagna il lettore passo a
passo con numerosi sketch e
diagrammi. Non solo: a ogni
trucco corrisponde un video
pubblicato sul canale YouTube
dell'autore: www.youtube.com/u

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Understand why fatigue happens and how to model, simulate, design and test for it with this practical, industry-focused reference Written to bridge the technology gap

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between academia and industry, the Metal Fatigue Analysis Handbook presents state-of-the-art fatigue theories and technologies alongside more commonly used practices, with working examples included

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to provide an informative, practical, complete toolkit of fatigue analysis. Prepared by an expert team with extensive industrial, research and professorial experience, the book will help you to

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understand: Critical factors that cause and affect fatigue in the materials and structures relating to your work Load and stress analysis in addition to fatigue damage-the latter being the sole focus of many books on

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the topic How to design with fatigue in mind to meet durability requirements How to model, simulate and test with different materials in different fatigue scenarios The importance and limitations of

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different models for cost effective and efficient testing. Whilst the book focuses on theories commonly used in the automotive industry, it is also an ideal resource for engineers and analysts in other disciplines.

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such as aerospace engineering, civil engineering, offshore engineering, and industrial engineering. The only book on the market to address state-of-the-art technologies in load, stress and fatigue damage

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analyses and their application to engineering design for durability
Intended to bridge the technology gap between academia and industry-written by an expert team with extensive industrial, research

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and professorial experience in
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advanced mechanical
engineering design handbook
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professional engineers within
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monster that gobbles up paper

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and answers written questions, to a remote-controlled transformer car that you can drive, steer, and shape-shift into a walking humanoid robot at the press of a button. Author and MINDSTORMS master Daniele

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Benedettelli, a robotics expert, takes a project-based approach as he leads you through an increasingly sophisticated collection of his most captivating robot models, chapter by chapter. Each

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program an adorable pet turtle, an electric guitar that lets you shred out solos, a fully functional, whiz-bang pinball machine and more, you'll discover dozens of cool building and programming techniques to

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apply to your own LEGO creations, from working with gears and motors, to smoothing out sensor measurement errors, storing data in variables and lists, and beyond. By the end of this book, you'll have all the

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tools, talent and inspiration you need to invent your own LEGO MINDSTORMS robots.

This book is where your adventures with Bluetooth LE begin. You'll start your journey by getting familiar with your

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hardware options: Arduino, BLE modules, computers (including Raspberry Pi!), and mobile phones. From there, you'll write code and wire circuits to connect off-the-shelf sensors, and even go all the way to

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writing your own Bluetooth Services. Along the way you'll look at lightbulbs, locks, and Apple's iBeacon technology, as well as get an understanding of Bluetooth security-- both how to beat other people's security,

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and how to make your hardware
secure.

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For Camera Module & High
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edition has been updated to include a new chapter on novelty detection, and provides a very practical introduction to mobile robotics for a general scientific

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intelligence, cognitive science and robot engineering. The update and overview of core concepts in mobile robotics will assist and encourage practitioners

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of the field and set challenges to explore new avenues of research in this exiting field.

The author is Senior Lecturer at the Department of Computer

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Science at the University of Essex. "A very fine overview over the relevant problems to be solved in the attempt to bring intelligence to a moving vehicle."

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Professor Dr. Ewald von
Puttkamer, University of
Kaiserslautern "Case
studies show ways of
achieving an impressive
repertoire of kinds of
learned behaviour,

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navigation and map-building. The book is an admirable introduction to this modern approach to mobile robotics and certainly gives a great deal of food for

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thought. This is an important and thought-provoking book." Alex M. Andrew in Kybernetes Vol 29 No 4 and Robotica Vol 18

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you'll be on your way to
building and programming
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You'll begin your
exploration by building
a basic rover robot

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called MARIO to help you learn the fundamentals of the BOOST programming environment. Next, you'll add features to your rover to control its movement and make it

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repeat actions and react to colors and sounds. Once you've learned some programming basics, you'll learn how to program your robot to do things like follow lines

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on the ground, scan its environment to decide where to go, and even play darts. As final projects, you'll create two complete robots: BrickPecker to help you

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organize your bricks and
CYBOT, a robot that
talks, shoots objects,
and executes voice
commands. As you advance
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optional lessons aim to

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deepen your understanding of basic robotics concepts. Brain BOOSTer sections let you dig into the math and engineering behind your builds while a host of

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Sviluppatori esperti e
appassionati alle prese
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troveranno in queste pagine tutto il necessario per capire rapidamente come utilizzare i componenti hardware fondamentali e scrivere il software

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necessario per passare subito dalla teoria alla pratica. Seguendo passo passo le istruzioni dell'autore, sarà possibile realizzare tanti incredibili

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progetti: vedrete come è facile assumere il controllo del dispositivo Wii Nunchuk di Nintendo e utilizzarlo nelle vostre applicazioni,

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Processing opened up the world of programming to artists, designers, educators, and beginners. The Processing.py Python implementation of

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Processing reinterprets it for today's web. This short book gently introduces the core concepts of computer programming and working with Processing. Written by the co-founders of the Processing project, Reas and Fry, along with

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co-author Allison Parrish, Getting Started with Processing.py is your fast track to using Python's Processing mode.

La pubblicazione è dedicata a tutti i colleghi docenti ed è centrata e focalizzata sul ruolo rilevante del docente, sulle sue

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gli autori sono tutti docenti
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che il loro curriculum formativo si è distinto negli ultimi 20 anni principalmente in questa area anche grazie agli incarichi ministeriali e ad una organizzazione di formazione alla quale si sono associati per migliorare la professionalità (OPPI

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di Milano). Lo scopo di questa pubblicazione è di stimolare, incoraggiare e mettere a buon frutto lo sforzo fatto in tutti questi anni da un'equipe di docenti che oltre al loro ruolo d'insegnamento scolastico agli studenti, hanno arricchito il loro percorso

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