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	Titolo	Yearbook
	Pubbl/distr/stampa	Roma, : Rivista marittima, 2000-
	Descrizione fisica	volumi : ill. ; 24 cm
	Disciplina	940.545945
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	Lingua di pubblicazione	Italiano
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2.	Record Nr.	UNINA9910823421103321
	Autore	Nagpal Varun
	Titolo	Android sensor programming by example : take your Android applications to the next level of interactivity by exploring the wide variety of Android sensors / / Varun Nagpal
	Pubbl/distr/stampa	Birmingham : , : Packt Publishing, , 2016
	ISBN	1-78528-466-5
	Edizione	[1st edition]
	Descrizione fisica	1 online resource (191 pages) : color illustrations
	Collana	Community experience distilled
	Soggetti	Mobile apps Application software - Development
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	Sommario/riassunto	Take your Android applications to the next level of interactivity by exploring the wide variety of Android sensors About This Book Get a thorough understanding of the fundamentals and framework of

Android sensors. Acquire knowledge of advance sensor programming, and learn how to connect and use sensors in external devices such as the Android Watch, Polar heart rate monitors, Adidas speed cells, and so on. Learn from real-world sensor-based applications such as the Pedometer app to detect daily steps, the Driving app to detect driving events, and the Professional Fitness tracker app to track heart rate, weight, daily steps, calories burned, and so on. Who This Book Is For This book is targeted at Android developers who want to get a good understanding of sensors and write sensor-based applications, or who want to enhance their existing applications with additional sensor functionality. A basic knowledge of Android development is required What You Will Learn Learn about sensor fundamentals, different types of sensors, and the sensor co-ordinate system Understand the various classes, callbacks, and APIs of the Android Sensor framework Check all the available sensors on an Android device and know their individual capabilities—for example, their range of values, power consumption, and so on. Implement sensor fusion using two or more sensors together and learn to compensate for the weakness of one sensor by using the strength of another Build a variety of sensor based, real-world applications such as Weather, Pedometer, Compass, Driving Events Detection, Fitness Tracker, and so on. Get to know about wake up and non-wake up sensors, wake locks, and how to use sensor batch processing along with the sensor hardware FIFO queue Develop efficient battery and processor algorithms using raw sensor data to solve real-world problems Connect to a variety of remote sensors such as body weight measurement and body fat percentage measurement using the Google Fit platform from your Android app In Detail Android phones available in today's market have a wide variety of powerful and highly precise sensors. Interesting applications can be built with them such as a local weather app using weather sensors, analyzing risky driving behavior using motion sensors, a fitness tracker using step-counter sensors, and so on. Sensors in external devices such as Android Watch, Body Analyzer & Weight Machine, Running Speed Cell, and so on can also be connected and used from your A...
