Record Nr. UNINA9910463232303321 Autore Lelis Baggio Daniel Titolo Mastering OpenCV with practical computer vision projects [[electronic resource] /] / Daniel Lelis Baggio ... [et al.] Birmingham, UK, : Packt Pub., 2012 Pubbl/distr/stampa **ISBN** 1-62198-906-2 1-299-14864-6 1-84951-783-5 Edizione [1st edition] Descrizione fisica 1 online resource (340 p.) Disciplina 006.3 006.37 Soggetti C++ (Computer program language) Computer vision Electronic books. Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Nota di bibliografia Includes bibliographical references and index. Nota di contenuto Cover: Copyright: Credits: About the Authors: About the Reviewers: www.PacktPub.com; Table of Contents; Preface; Chapter 1:Cartoonifier and Skin Changer for Android; Accessing the webcam; Main camera processing loop for a desktop app: Generating a black-and-white sketch; Generating a color painting and a cartoon; Generating an ""evil"" mode using edge filters; Generating an ""alien"" mode using skin detection; Skin-detection algorithm; Showing the user where to put their face: Implementation of the skin-color changer: Porting from desktop to Android Setting up an Android project that uses OpenCVColor formats used for image processing on Android; Input color format from the camera; Output color format for display; Adding the cartoonifier code to the Android NDK app; Reviewing the Android app; Cartoonifying the image when the user taps the screen; Saving the image to a file and to the Android picture gallery; Showing an Android notification message about a saved image; Changing cartoon modes through the Android menu bar: Reducing the random pepper noise from the sketch image:

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Sommario/riassunto

Each chapter in the book is an individual project and each project is constructed with step-by-step instructions, clearly explained code, and includes the necessary screenshots. You should have basic OpenCV and C/C++ programming experience before reading this book, as it is aimed at Computer Science graduates, researchers, and computer vision experts widening their expertise.