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Altri autori (Persone)	DuaSumeet Acharya URajendra NgE. Y. K
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Nota di contenuto	Contents; Chapter 1. The Biological and Computational Bases of Vision Hilary W. Thompson; 1.1. Introduction to the Eye; 1.2. The Anatomy of the Human Visual System; 1.3. Neurons; 1.4. Synapses; 1.5. Vision - Sensory Transduction; 1.6. Retinal Processing; 1.7. Visual Processing in the Brain; 1.8. Biological Vision and Computer Vision Algorithms; References; Chapter 2. Computational Methods for Feature Detection in Optical Images Michael Dessauer and Sumeet Dua; 2.1. Introduction to Computational Methods for Feature Detection; 2.2. Preprocessing Methods for Retinal Images 2.2.1. Illumination Effect Reduction2.2.1.1. Non-linear brightness transform; 2.2.1.2. Background identification methods; 2.2.2. Image Normalization and Enhancement; 2.2.2.1. Color channel transformations; 2.2.2.2. Image smoothing through spatial filtering; 2.2.2.3. Local adaptive contrast enhancement; 2.2.2.4. Histogram transformations; 2.3. Segmentation Methods for Retinal Anatomy Detection and Localization; 2.3.1. A Boundary Detection Methods; 2.3.1.1. First-order difference operators; 2.3.1.2. Second-order boundary detection; 2.3.1.3. Canny edge detection

2.3.2. Edge Linkage Methods for Boundary Detection2.3.2.1. Local neighborhood gradient thresholding; 2.3.2.2. Morphological operations for edge link enhancement; 2.3.2.3. Hough transform for edge linking; 2.3.3. Thresholding for Image Segmentation; 2.3.3.1. Segmentation with a single threshold; 2.3.3.2. Multi-level thresholding; 2.3.3.3. Windowed thresholding; 2.3.4. Region-Based Methods for Image Segmentation; 2.3.4.1. Region growing; 2.3.4.2. Watershed segmentation; 2.3.4.3. Matched filter segmentation; 2.4. Feature Representation Methods for Classification; 2.4.1. Statistical Features 2.4.1.1. Geometric descriptors2.4.1.2. Texture features; 2.4.1.3. Invariant moments; 2.4.2. Data Transformations; 2.4.2.1. Fourier descriptors; 2.4.2.2. Principal component analysis (PCA); 2.4.3. Multiscale Features; 2.4.3.1. Wavelet transform; 2.4.3.2. Scale-space methods for feature extraction; 2.5. Summary; References; Chapter 3. Computational Decision Support Systems and Diagnostic Tools in Ophthalmology: A Schematic Survey Sumeet Dua and Mohit Jain; 3.1. Evidence- and Value-Based Medicine; 3.1.1. EBM Process; 3.1.2. Evidence-Based Medical Issues; 3.1.3. Value-Based Evidence 3.2. Economic Evaluation of the Prevention and Treatment of Vision-Related Diseases3.2.1. Economic Evaluation; 3.2.2. Decision Analysis Method; 3.2.3. Advantages of Decision Analysis; 3.2.4. Perspective in Decision Analysis; 3.2.5. Decision Tree in Decision Analysis; 3.3. Use of Information Technologies for Diagnosis in Ophthalmology; 3.3.1. Data Mining in Ophthalmology; 3.3.2. Graphical User Interface; 3.4. Role of Computational System in Curing Disease of an Eye; 3.4.1. Computational Decision Support System: Diabetic Retinopathy; 3.4.1.1. Wavelet-based neural network23
3.4.1.2. Content-based image retrieval

Sommario/riassunto

Advances in semi-automated high-throughput image data collection routines, coupled with a decline in storage costs and an increase in high-performance computing solutions have led to an exponential surge in data collected by biomedical scientists and medical practitioners. Interpreting this raw data is a challenging task, and nowhere is this more evident than in the field of opthalmology. The sheer speed at which data on cataracts, diabetic retinopathy, glaucoma and other eye disorders are collected, makes it impossible for the human observer to directly monitor subtle, yet critical details. T

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Autore	Johnston Karlynn
Titolo	Flapper Pie and a Blue Prairie Sky : A Modern Baker's Guide to Old-Fashioned Desserts
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Nota di contenuto	The kitchen magpie -- A note on recipe yields -- A modern day baker's kitchen -- An old fashioned baker's pantry -- Canadian Prairie flapper pie, or, The (almost) lost prairie pie -- Pies -- Cookies -- Cakes and trifles -- Brownies, dainties, and slices -- Doughnuts and yeast breads -- Candy and confections -- Icings, puddings, and sauces.
Sommario/riassunto	Combining long-forgotten classics with deliciously revamped recipes and stunning photography is what Karlynn Johnston is all about. In her anticipated first cookbook, Karlynn covers everything you need to know about being a modern-day old-fashioned baker: from setting up your kitchen and stocking your pantry, to making pie dough and releasing a Bundt cake from its pan. Once you've got the basics covered, you'll be ready to bake time-honored desserts like Saskatoon Berry Pie, Thick and Chewy Chocolate Chip Cookies, and No-Bowl Chocolate Vinegar Cake. Then, jazz things up with these recipes' modern twists: White Chocolate Saskatoon Galette, Chocolate Buttercream-Stuffed Chocolate Chip Cookies, and Root Beer Float Cupcakes. And, of course, there's the recipe that started it all: the almost-lost Prairie favorite, Flapper Pie. When Karlynn first posted this recipe on her blog, it went viral, drawing enthusiastic and sentimental responses from readers everywhere who wanted to reminisce about their childhood and family food memories. An approachable book for every skill level, Flapper Pie and a Blue Prairie Sky covers all the cherished bake goods from Karlynn and

her family. Featuring more than 120 recipes from cakes to candies, doughnuts to dainties, and pies to puddings, with the same gorgeous photography that has made The Kitchen Magpie a go-to blog for passionate home bakers, this book is a delicious demonstration of the comfort and closeness that baking can bring. Flapper Pie and a Blue Prairie Sky is destined to become a classic to be shared through the generations.