1.	Record Nr.	UNINA9910449934703321
	Titolo	Computational, geometric, and process perspectives on facial cognition : contexts and challenges / / edited by Michael J. Wenger, James T. Townsend
	Pubbl/distr/stampa	Mahwah, N.J. : , : L. Erlbaum Associates, , 2001
	ISBN	1-135-66950-3 1-282-37904-6 9786612379048 1-4106-1232-5
	Descrizione fisica	1 online resource (516 p.)
	Collana	Scientific psychology series
	Altri autori (Persone)	TownsendJames T WengerMichael J
	Disciplina	153.7/5
	Soggetti	Face perception Face perception - Computer simulation Face perception - Mathematical models 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 indexes.
	Nota di contenuto	Cover; COMPUTATIONAL, GEOMETRIC, AND PROCESS PERSPECTIVES ON FACIAL COGNITION; Title Page; Copyright Page; Table of Contents; Preface; 1 Quantitative Models of Perceiving and Remembering Faces: Precedents and Possibilities; 2 The Perfect Gestalt: Infinite Dimensional Riemannian FaceSpaces and Other Aspects of Face Perception; 3 Face- Space Models of Face Recognition; 4 Predicting Similarity Ratings to Faces Using PhysicalDescriptions; 5 Formal Models of Familiarity and Memorability in FaceRecognition 6 Characterizing Perceptual Interactions in Face IdentificationUsing Multidimensional Signal Detection Theory7 Faces as Gestalt Stimuli: Process Characteristics; 8 Face Perception: An Information Processing Perspective; 9 Is All Face Processing Holistic? The View From UCSD; 10 Viewpoint Generalization in Face Recognition: The Role of Category- Specific Processes; 11 2D or Not 2D? That Is the Question: What Can We LearnFrom Computational Models Operating on Two-

	DimensionalRepresentations of Faces? 12 Are Reductive (Explanatory) Theories of Face Identification Possible? Some Speculations and Some FindingsAuthor Index; Subject Index
Sommario/riassunto	Within the last three decades, interest in the psychological experience of human faces has drawn together cognitive science researchers from diverse backgrounds. Computer scientists talk to neural scientists who draw on the work of mathematicians who explicitly influence those conducting behavioral experiments. The chapters in this volume illustrate the breadth of the research on facial perception and memory, with the emphasis being on mathematical and computational approaches. In pulling together these chapters, the editors sought to do much more than illustrate breadth. They endeavo