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Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	CONTENTS; FOREWORD ; PREFACE ; LIST OF CONTRIBUTORS ; Facial Expression Classification Based on Convolutional Neural Networks ; INTRODUCTION; Convolutional Neural Networks; Facial Expression Analysis; GRADIENT-BASED LEARNING FOR CNNs; FEATURE GENERALIZATION; EXPERIMENTS; Datasets; CK-Regianini Dataset; CK-Zheng Dataset; CMU-Pittsburgh dataset ; Experiments on CNN-based Facial Expression Classification; Design; Results and Analysis; Experiments on Feature Generalization; Design; Results and Analysis; DISCUSSION; CONFLICT OF INTEREST; ACKNOWLEDGEMENTS; REFERENCES Sparsity Preserving Projection Based Constrained Graph Embedding and Its Application to Face Recognition INTRODUCTION; RELATED WORK; Locality Preserving Projection; Neighborhood Preserving Embedding; Sparsity Preserving Projection; Constrained Graph Embedding; SPP BASED CONSTRAINED GRAPH EMBEDDING; SPP-CGE; Out-of-Sample Extension; EXPERIMENTAL RESULTS; CONCLUSION; NOTES; CONFLICT OF INTEREST; ACKNOWLEDGEMENTS; REFERENCES; Face Recognition Using Exponential Local Discriminant Embedding ; INTRODUCTION; Contribution and Related Work; REVIEW OF LOCAL DISCRIMINANT EMBEDDING (LDE) Intrinsic Graph and Penalty Graph Optimal Mapping; The Small Sample

Size Problem; EXPONENTIAL LDE; Matrix Exponential; Exponential LDE;
THEORETICAL ANALYSIS OF ELDE; Solving the SSS Problem; Distance
Diffusion Mapping; PERFORMANCE EVALUATION; Face Databases;
Recognition Accuracy; Comparison between Regularized LDE and ELDE;
CONCLUSION; NOTES; CONFLICT OF INTEREST; ACKNOWLEDGMENTS;
REFERENCES; Adaptive Locality Preserving Projections for Face
Recognition ; INTRODUCTION; LOCALITY PRESERVING PROJECTIONS;
ENHANCED AND PARAMETERLESS LPP; PERFORMANCE EVALUATION;
Face Databases; Experimental Results
Performance Comparison for OLPP and SLPPCONCLUSION; NOTES;
CONFLICT OF INTEREST; ACKNOWLEDGMENTS; REFERENCES; Face
Recognition Using 3D Face Rectification ; INTRODUCTION; PROPOSED
METHOD ; FACE DATABASE ; PREPROCESSING ; FACIAL FEATURE
DETECTION ; POSE ESTIMATION; IRAD Contours; Ellipse Fitting And Roll
Correction; Yaw Correction; Pitch Correction; Accuracy Of The Pose
Estimation Method; ROTATION AND POST PROCESSING; EXPERIMENTS;
CONCLUSION; NOTES; CONFLICT OF INTEREST; ACKNOWLEDGMENTS;
REFERENCES; 3D Face Recognition ; INTRODUCTION; 3D FACE
ACQUISITION; 3D FACE REPRESENTATION; PREPROCESSING
3D FACE ALIGNMENTFACE RECOGNITION; CONCLUDING REMARKS;
CONFLICT OF INTEREST; ACKNOWLEDGEMENTS; REFERENCES; Model-
Less 3D Face Pose Estimation ; INTRODUCTION; STATE OF THE ART;
THE MACHINE LEARNING METHODOLOGY; Locality Preserving
Projections; LPP Algorithm; Supervised Locality Preserving Projections;
LABEL-SENSITIVE LOCALITY PRESERVING PROJECTION; Presetting;;
Algorithm;; PROPOSED APPROACH: SPARSE GRAPH BASED LSLPP;
EXPERIMENTAL RESULTS; CONCLUSION; NOTES; CONFLICT OF INTEREST;
ACKNOWLEDGEMENTS; REFERENCES; Efficient Deformable 3D Face
Model Fitting to Monocular Images ; INTRODUCTION
LIGHTWEIGHT FACIAL FEATURE DETECTION
