CONTENTS

Preface: Digital Technologies in Oral and Maxillofacial Surgery  vii
Gary Orentlicher

A Comparison of Maxillofacial CBCT and Medical CT  1
Christos Angelopoulos, William C. Scarfe, and Allan G. Farman

Computer-Aided Manufacturing in Medicine  19
Marcus Abboud and Gary Orentlicher

Virtual Technologies in Dentoalveolar Evaluation and Surgery  37
Bernard Friedland, Bruce Donoff, and Douglas Chenin

Computer-Guided Planning and Placement of Dental Implants  53
Gary Orentlicher, Douglas Goldsmith, and Marcus Abboud

Technological Advances in the Treatment of Facial Trauma  81
Tuan G. Bui, R. Bryan Bell, and Eric J. Dierks

Digital Technologies in Mandibular Pathology and Reconstruction  95
Ashish Patel, Jamie Levine, Lawrence Brecht, Pierre Saadeh, and David L. Hirsch

Computer-Aided Orthognathic Surgery  107
Savannah Gelesko, Michael R. Markiewicz, Katherine Weimer, and R. Bryan Bell

Facial Skeletal Augmentation Using Custom Facial Implants  119
Douglas Goldsmith, Andrew Horowitz, and Gary Orentlicher

Systematic Treatment Planning Protocol for Patients with Maxillofacial Defects: Avoiding Living a Life of Seclusion and Depression  135
Edmond Bedrossian and P.-I. Bränemark