

CONTENTS

PART I TOOLS AND STANDARDS

1. Middleware platforms to Support Multimedia Applications	3
2. DAVIC and Multimedia Standards	37
3. Interactive Multimedia User Interfaces	59
4. Content-Based Video Browsing and Retrieval	83
5. Cross-Modal Retrieval and Applications	109
6. Automatic and Dynamic Video Manipulation	131
7. Detection and Recognition of Television Commercials	159
8. Authoring Techniques for Temporal Scenarios of Multimedia Documents	179
9. Generating Hypermedia Documents from Transcriptions of Television Programs using Parallel Text Alignment	201
10. Quality of Service in Networked Multimedia Systems	217
11. An Experimental Study of Multimedia Applications over International ATM Networks	253
12. A Framework for Building Adaptive Continuous Media Applications Using Service Proxies	261

PART II SYSTEMS 283

13. Multimedia Database Management Systems	285
14. Multimedia Information Systems	311
15. Distributed Multimedia Systems	339
16. Visual Information Systems	361
17. Interactive Systems for Learning and Teaching	375
18. Automatic Digital Video Production Concepts	399
19. Multimedia Messaging Systems	419
20. Multimedia News Systems	437
21. Multimedia Publishing Systems	457
22. Conferencing and Collaborative Computing	483

23. Video-On-Demand Systems	511
24. QoS Guarantees for Multimedia Traffic in Wireless Systems	531
PART III APPLICATIONS	549
25. Multimedia Education	551
26. Interactive Movies	581
27. Multimedia and Virtual Organizations	593
28. Multimedia Applications on the Internet	609
29. Multimedia Document Systems from Authoring Perspective	635
30. Multimedia Document Systems – Asian Perspective	671
31. Delivering Interactive Services to the Home Using Digital Video Broadcast Infrastructure	693
32. Virtual Reality Systems for Browsing Multimedia	709
33. Multimedia in Control and Automation Applications	733
34. Multimedia Archiving, Logging, and Retrieval	763
35. Hypermedia Systems and Applications	787
36. Java and Related Applications	807
37. Multimedia Broadcasting on the Internet	825
38. Mobile Multimedia : Concepts, Services, and Systems	845
INDEX	865