

# JOURNAL OF THE COMMUNICATIONS RESEARCH LABORATORY

---

## CONTENTS

### Message to Readers

- The Principle of a Large Research Laboratory in Research Projects ..... *Takashi Iida* 1

### Papers

- Feature Selection in Flexible Image Retrieval ..... *Syuko Kato* 3
- Design of M-ary QAM Trellis Codes for Land Mobile Radio Communications ..... *Jun Du, Yuki Yoshi Kamio, and Hideichi Sasaoka* 17

### Recent Activities in CRL

- Inauguration of Yokosuka Radio Communications Research Center  
-Towards strategic cooperation between industry, academia, and the government-  
..... *Shingo Ohmori* 31
- Development of Multimedia - Multimode TDMA System for Land Mobile  
Radio Communications ..... *Eimatsu Moriyama* 33
- Key Technology Development for Information Infrastructure ..... *Tadashi Shiomi* 37
- High-Speed Optical Network Technologies  
-Challenge to the ultimate limits- ..... *Ken-ichi Kitayama* 43
- Telecommunication Technologies for the Disabled  
-Towards a dialogue system between sign language and voice- ..... *Seiji Igi, Shan Lu, Tsuyoshi Ebina, Kazuyuki Imagawa, Hiroyuki Sakato, Toshimichi Urata, and Masazumi Nishida* 53
- Advanced Image Information Technology  
-Applications in medical image processing- ..... *Shun-ichi Iisaku* 61

### Departments

- Abstract of Research Papers Published in the Issues of "Review of the Communications  
Research Laboratory" (in Japanese), Vol. 43, No. 4, 1997 ..... 71
- 



COMMUNICATIONS  
RESEARCH  
LABORATORY

MINISTRY OF POSTS AND TELECOMMUNICATIONS

TOKYO, JAPAN