

CONTENTS

UNIVERSIDAD NACIONAL DE ENTRE RIOS
FACULTAD DE INGENIERIA
CENTRO DE MEDIOS
BIBLIOTECA
Nº 3 095

Introduction

Page
vii

PART 1 Networks

- | | | | |
|---|--|--|----|
| 1 | Computer Networks at UWIST | H Beedie
D Jennings | 1 |
| 2 | The use of JANET for the Transfer of Medical Images and Other Files Over a Wide Area Network | R E Bentley
S Webb
A P Davies
J Sutcliffe
P Wild | 7 |
| 3 | A Computer Network Using the Cambridge Ring and Other Hardware | D Plummer | 11 |
| 4 | Data Compression Techniques for the Transmission of Images at Various Speeds over Networks | A Todd-Pokropek | 18 |
| 5 | Data Collection and Transfer in a DGH Haematology Laboratory | D McG Clarkson
M Gibson | 29 |
| 6 | A Glimpse at the ACR-NEMA Digital Imaging and Communications Standard | P C Jackson | 35 |
| 7 | Image Distribution Networks for Nuclear Medicine (abstract) | P Vernon | 44 |
| 8 | Kermit, a Universal File Transfer Protocol? | A R Davies | 45 |

Discussion on Networks

50

PART 2 Image Handling

- | | | | |
|----|--|---|----|
| 9 | Methods of Digital Image Processing used by the National Remote Sensing Centre | C Legg | 51 |
| 10 | Holographic Displays of Medical Data | J Drinkwater
S Hart | 54 |
| 11 | Problems in the Preparation of CT Images for use in Radiotherapy Treatment Planning | G S Shentall
J A Brace | 59 |
| 12 | Practical Experience of Image Transfer from Nuclear Medicine, X-ray CT and Video Sources to a VAX Computer | A J Britten
A C Keen
J S Fleming
P J Howlett | 63 |
| 13 | Technical Factors Involved with the Superimposition of Digital Images | E M Pitcher
P C Jackson
H Key
P H Stevens | 70 |

14	An Implementation of a Multi-Format Computerised Image Display System	A N R Law P G B Ross	77
15	Recognition Applied to Medical Images	J A Newell E Sokolowska	81
16	A Microcomputer Based System for Measuring Regional Heart Muscle Contraction	P F Wankling R A Perry J A Newell M F Shiu	85
	Discussion on Image Handling		91
17	An Overview of Image Processing in Medicine	A Todd-Pokropek	92
	Contributors		103
	Index		107