

## CONTENTS

|   |    |
|---|----|
| Gheorghe Doru DICU: <i>Mathematical Model of Heat Flows from Shelters for Telecommunications Equipments</i>                       | 1  |
| Sorin DUMITRU, Florin MANTA, Cristina RESCEANU: <i>An Overview of the Hiper-Redundant Robot HIPROB-I</i>                          | 7  |
| Bogdan POPA, Dan POPESCU: <i>Lossless Compression in Image Processing Technologies and Applications</i>                           | 13 |
| Ion Marian POPESCU: <i>System for data aquisition with real-time complex processing of a bearing vibration</i>                    | 19 |
| Răzvan PREJBEANU: <i>Traction Asynchronous Motor Fed by Power Converter Controlled by Direct Torque Control Method</i>            | 25 |
| Virginia Maria RADULESCU: <i>Image Processing Using Frequency Separation Technique</i>  | 31 |
| Ionuț Cristian REȘCEANU, Cristina Floriana REȘCEANU: <i>Improved Smith Predictor Structures Applied in Electric Plant Control</i> | 36 |
| Monica ROMAN: <i>Nonlinear dynamics in biotechnological processes: Analysis and case studies</i>                                  | 42 |
| Author Index  | 48 |