

## CONTENTS

### Part I. Mathematics and its applications

<b>Billich Martin.</b> Mapping preserving some distances .....	9
<b>Jędrzejewski Jacek.</b> On some properties of connected functions ....	15
<b>Jędrzejewski Jacek, Kowalczyk Stanisław.</b> $k$ -connectivity .....	27
<b>Povstenko Jurij.</b> From Euclid's elements to Cosserat continua .....	33
<b>Selyaninov Mikhail.</b> Modular technique of parallel information processing .....	43
<b>Tikhonenko Oleg, Gola Artur, Ziółkowski Marcin.</b> Estimations of loss characteristics of single-server queueing systems with non-homogeneous customers .....	53
<b>Trenkler Marián.</b> On additive and multiplicative magic cubes .....	67
<b>Trocza-Pawełec Katarzyna.</b> Some inequalities connected with a quadratic functional equation .....	73
<b>Tyrala Iwona.</b> The stability of the second generalization of d'Alembert's functional equation .....	81
<b>Tyrala Rafał.</b> Comparison of fuzzy numbers ranking methods .....	93

### Part II. Theory of training teachers of mathematics

<b>Bryll Grzegorz, Rygał Grażyna.</b> Construction of trigonometry using the scalar product .....	115
<b>Jędrzejewski Jacek, Rygał Grażyna.</b> Uwagi o przeszkodach semantycznych i syntaktycznych .....	127

**PART I**  
**MATHEMATICS**  
**AND ITS APPLICATIONS**

**PART II**  
**THEORY OF TRAINING**  
**TEACHERS OF MATHEMATICS**