

3

Sergey Subbotin - Andrii Oliinyk - Vitaly Levashenko
Elena Zaitseva

**DIAGNOSTIC RULE MINING BASED
ON ARTIFICIAL IMMUNE SYSTEM
FOR A CASE OF UNEVEN DISTRIBUTION
OF CLASSES IN SAMPLE**

12

Jaroslav Janacek - Marek Kvet

**MIN-MAX ROBUST EMERGENCY SERVICE
SYSTEM DESIGN**

19

Zuzana Borcinova - Stefan Pesko

**NEW EXACT ITERATIVE METHOD
FOR THE CAPACITATED VEHICLE
ROUTING PROBLEM**

22

Vojtech Graf - Dusan Teichmann - Michal Dorda

**MATHEMATICAL MODEL FOR CHARTER
FLIGHTS PLANNING AT AIRPORTS WITH
HIGH AIR TRAFFIC VOLUME**

28

Dalibor Gottwald - Libor Svadlenka - Hana Pavlisova

**CUSTOMER CAPITAL AS A KEY
FACTOR OF E-COMMERCE MARKET
DEVELOPMENT**

34

Zoran Cekerevac - Zdenek Dvorak - Ludmila Prigoda
Petar Cekerevac

**BIG VS SMALL DATA IN MICRO
AND SMALL COMPANIES**

41

Slavomir Kavecky - Penka Martincova

**AD HOC GRID RESOURCE MANAGEMENT:
GRID SECURITY**

50

Peter Czimmermann

**LOCATION PROBLEMS
IN TRANSPORTATION NETWORKS**

54

Jiri Cee - Oleksii Dieiev - David Holman - Radim Lenort
David Stas - Pavel Wicher

**SYSTEM ORIENTED SUSTAINABLE
SUPPLY CHAIN MANAGEMENT
INNOVATIONS IN AUTOMOTIVE
INDUSTRY – SKODA AUTO CASE STUDY**

60

Peter Futas - Alena Pribulova - Jozef Petrik
Marcela Malindzakova - Andrea Rosova
Beata Grabowska

**ELIMINATION OF NEGATIVE IMPACTS
OF STEEL SCRAP AS A CHARGE
COMPONENT DURING THE PRODUCTION
OF SYNTHETIC CAST IRON**

65

Jaroslav Smutny - Lubos Pazdera - Vladimir Tomandl
Herbert Seelmann

**ASSESSMENT OF DYNAMIC PARAMETERS
OF RAIL FASTENING**

71

Jan Moravec

**CUTTING METAL SHEET WITH A PUNCH
WITH INTERNAL HEATING**

78

Petr Jonsta - Irena Vlckova - Zdenek Jonsta
Roman Heide

**MATERIAL ANALYSIS OF DEGRADED
STEAM TURBINE ROTOR**

83

Frantisek Noy - Robert Ulewicz - Otakar Bokuvka
Libor Trsko - Jan Lago

**RELIABILITY AND SAFETY
OF STRUCTURAL ELEMENTS
IN THE GIGACYCLE REGION OF LOADING**

88

Michaela Solanska - Miroslav Markovic - Milan Dado
**RESOURCE RESERVATION SCHEMES FOR
OPTICAL BURST SWITCHING NETWORKS**

93

Martina Vackova - Lucia Kovacova - Maria Kancirova
Peter Losonczy

**THE NEED FOR INNOVATION
OF SECURITY EDUCATION FOR
STRENGTHENING THE RESULTS
OF TRADITIONAL TEACHING AT
UNIVERSITIES**

98

Katarina Valcova - Martina Pavlikova - Marie Roubalova

**RELIGIOUS EXISTENTIALISM
AS A COUNTERMEASURE
TO MORALISTIC THERAPEUTIC
DEISM**

105

Peter Hanuliak, Michal Hanuliak

**HYBRID ANALYTICAL PERFORMANCE
MODELS OF PARALLEL COMPUTERS**
