# **Contents**

#### **SOFTWARE SECURITY**

- 9 Gavrichkov D. A., Ovasapyan T. D., Ivanov D. V. FUZZING OF CLOSED-SOURCE SOFTWARE USING LARGE LANGUAGE MODELS
- 20 Ognev R. A., Zegzhda D. P.
  GENERALIZED METHOD FOR COMPARATIVE ANALYSIS
  OF FUZZ TESTING TOOLS
- 30 Pavlenko E. Yu., Ivanov M. S.

  ANALYSIS OF METHODS FOR DETECTING

  MALICIOUS SOFTWARE USING LARGE LANGUAGE MODELS

  AND EBPF TECHNOLOGY

#### **NETWORK AND TELECOMMUNICATION SECURITY**

- **40** Gofman M. V., Kornienko A. A.
  - A METHOD FOR PREDICTING THE CORRELATION PROPERTIES
    OF MARKER BIPOLAR SEQUENCES
    USING DIGITAL WATERMARKING BY THE PATCHWORK METHOD
- Zhukov I. Yu., Balashova E. E., Mandrov A. P., Kravchenko N. D. BUILDING A SEMANTIC SPACE OF INTENTIONS USING GENERATIVE PRE-TRAINED MODELS FOR SOLVING THE SPAM FILTERING TASK
- 69 Chizhevsky M. A., Serpeninov O. V., Lapsar A. P.
  OPTIMIZATION OF COMPUTER INCIDENT
  INVESTIGATION ALGORITHM IN SIEM SYSTEMS

### CRITICAL INFORMATION INFRASTRUCTURE SECURITY

- Vasiliev O. S., Krundyshev V. M., Kalinin M. O.
  ENSURING BYZANTINE FAULT TOLERANCE
  OF A DISTRIBUTED LEDGERS IN A SMART CITY
  BASED ON A TRUST MODEL
- **91** Zavadskii E. V.

CYBERSECURITY OF THE FUNCTIONAL NETWORK
OF CRITICAL INFRASTRUCTURE FACILITIES USING THE STRATEGY
OF OPTIMAL PLACEMENT OF HONEYPOT NODES

#### 100 Kurakin A. S.

METHOD OF DYNAMIC DISTRIBUTION OF ACCESS RIGHTS
IN AN AUTONOMOUS GROUP OF ROBOTIC SYSTEMS BASED ON GENETIC ALGORITHMS

#### MACHINE LEARNING AND KNOWLEDGE CONTROL SYSTEMS

110 Velichko I. S., Bezzateev S. V.

FROM EXPLOITATION TO PROTECTION: ANALYSIS OF METHODS FOR DEFENDING AGAINST ATTACKS ON LLMS

121 Spirin A. A., Ikonnikov A. V., Matuhina E. N.

CLUSTER ANALYSIS OF VECTOR REPRESENTATIONS
OF MALICIOUS QUERY LANGUAGE MODELS: COMPARISON OF METHODS
OF OBTAINING EMBEDDINGS BASED ON CHARACTER N-GRAMS,
INDIVIDUAL WORDS AND WHOLE SENTENCES

**147** Yugai P. E.

RESEARCH OF ADVERSARIAL ATTACKS
ON CLASSICAL MACHINE LEARNING MODELS
IN THE CONTEXT OF NETWORK THREAT DETECTION

## APPLIED CRYPTOGRAPHY

**165** Poltavtseva M. A.

OPTIMIZATION OF DATA OBFUSCATION
IN BIG DATA PROCESSING AND STORAGE SYSTEMS

180 Mironkin V. O., Yurasov N. A.

ON THE QUESTION OF THE APPLICABILITY OF THE STATISTICS OF THE MEASURE "CHI-SQUARE" IN THE PROBLEM OF DETERMINING THE PARAMETERS OF BLOCK ENCRYPTION ALGORITHMS

## SPECIALIST TRAINING

**192** Biryukov D. N., Suprun A. F., Biryukova A. D.

GLOBAL PRACTICES IN REGULATING AND IMPLEMENTING GENERATIVE ARTIFICIAL INTELLIGENCE IN HIGHER EDUCATION