

# Contents

## INFORMATION SECURITY APPLICATION

---

- 9** Belova O. A.  
**EVALUATION OF SIGNAL MASKING  
BY A TWO-COMPONENT STEGANOGRAPHIC SYSTEM  
IN WINDOWED INFORMATION PROCESSING**
- 15** Russu V. Yu., Neaskin S. R., Biryukov D. N.  
**A MODEL OF THE PROCESS OF CONTROLLING  
THE FUNCTIONING OF AN AUTOMATED DATA STORAGE  
AND PROCESSING SYSTEM UNDER CYBER ATTACK CONDITIONS**

## SOFTWARE SECURITY

---

- 31** Bardovsky A. A., Fomicheva S. G.  
**INVESTIGATION OF THE CONFIDENTIAL CONTAINERS  
PERFORMANCE IN FOG COMPUTING FOR OBJECT DETECTION TASKS**
- 58** Zdornikov E. O.  
**FORECASTING MULTI-STAGE ATTACKS IN KUBERNETES  
FROM FALCO ALERTS USING STATE-SPACE MODELS**
- 69** Ivanov M. S., Pavlenko E. Yu.  
**USAGE OF THE SUBJECT-OBJECT MODEL  
IN THE TASK OF DETECTING MALICIOUS SOFTWARE IN THE ANDROID OS**

## NETWORK AND TELECOMMUNICATION SECURITY

---

- 87** Mashkina I. V., Dunyushkina K. S.  
**ANALYSIS OF INFORMATION SECURITY ISSUES IN HYPERCONVERGENT INFRASTRUCTURE**
- 99** Mingazov T. R., Kalinin M. O.  
**ADAPTIVE ARCHITECTURE FOR SECURE REMOTE ACCESS  
TO CORPORATE HOSTING SERVICES**
- 109** Ponachugin A. V., Andreeva A. D.  
**THE IMPACT OF THE SHADOW IT ON DATA PROCESSING SECURITY  
IN INFRASTRUCTURE OF INSTITUTIONS: RISKS AND SOLUTIONS**
- 123** Razinkin E. I.  
**MULTI-LEVEL MODEL OF SECURE INTEROPERABILITY  
IN E-COMMERCE BASED ON A SECURITY PROFILE**

## APPLIED CRYPTOGRAPHY

---

- 134** Kasyanov A. V., Vitchak I. D.  
**ERROR OF APPROXIMATION OF CHI-SQUARE DISTRIBUTION BY  
NORMAL DISTRIBUTION AS A FUNCTION OF SAMPLE SIZE**

## CYBER-PHYSIC SYSTEMS SECURITY

---

- 152** Zegzhda D. P., Gavva G. D., Kalinin M. O., Ovasapyan T. D., Tolstykh M. A.  
**CYBER RESILIENCE OF DIGITAL SUBSTATIONS:  
INTELLIGENT TECHNOLOGY FOR CYBER THREAT DETECTION  
AND ADAPTIVE ENVIRONMENT MANAGEMENT**
- 168** Sikarev I. A., Abramova A. L., Prostakevich K. S., Semidelova A. O., Abramov V. M.  
**AUTOMATION OF WATER TRANSPORT ACTIVITIES  
USING FACTORIAL APPROACH TO RISK MANAGEMENT**

## MACHINE LEARNING AND KNOWLEDGE CONTROL SYSTEMS

---

- 176** Kornienko A. A., Kornienko S. V., Nikitin A. B., Orlov V. A.  
**IDENTIFICATION OF A PERSON IN UNIFORM  
BASED ON VIDEO STREAM DATA USING  
THE YOLO CONVOLUTIONAL NEURAL NETWORK**
- 187** Sadykov A. M., Alekseeva A. A.  
**AUTOMATION OF INFORMATION SECURITY INCIDENT  
DETECTION USING CUSTOM CORRELATION RULES IN A SIEM SYSTEM**
- 201** Tumakov M. D., Ivanova L. A.  
**USE OF LARGE LANGUAGE MODELS FOR SECURITY EVENT ANALYSIS**