

## СЕКЦІЯ 3

### БЕЗПЕКА ФУНКЦІОНУВАННЯ ТЕЛЕКОМУНІКАЦІЙНИХ СИСТЕМ ТА МЕРЕЖ

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#### SPAM RECOGNITION AND SPAMMERS DETECTION

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Even 3 years ago, messengers and social networks occupied a big part of our lives, today due to the situation with Coronavirus and quarantine, the social and virtual world plays almost as important a role as the real one [1]. Along with the extreme growth in the popularity of messengers and social networks and the growth of the text stream on the Internet, there is the problem of recognizing, filtering spam and detecting and blocking spammers [2].

The **work is devoted** to solving the problem of spam detection and filtering, as well as the problem of detecting spammers and blocking them on social networks or messengers. For recognition we use a complex algorithm which includes 4 most popular methods of spam recognition: Naive Bayesian classifier, Method of reference vectors, Neural network based on Perceptron, Convolutional neural network [3, 4]. We place detected spammers in the cloud storage, so spammers' data is available to all working spam bots. In this paper we present the main stages of project development and test results of the obtained algorithms. Telegram messenger was chosen as a test platform, the developed spam bot can be implemented in several chats at once, users are recognized as spammers will be blocked in all chats in which the algorithm works (spam bot).

#### References

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