

	Rating	84	1	45	87	116
Logistics quality and competence	Ratio	2.55	4.28	3.39	2.67	2.44
	Rating	95	1	31	80	109
International transportation	Ratio	2.59	3.86	3.44	2.73	3.06
	Rating	95	8	33	84	58
Timeliness	Ratio	3.51	4.45	3.80	2.90	3.04
	Rating	54	2	37	109	97

Table 1 shows that Bangladesh and Mozambique belong to the least developed countries, but Ukraine, as we can see, is even behind them.

Consequently, we can conclude that Ukraine has logistic capacities, perspective companies with great goals, highly-skilled professionals who provide a wide range of logistics services and develop logistics in general. But compared to other countries, ours is far from the leading position.

*Scientific supervisor: Kozeletska I.S.,
Senior Lecturer*

UDC 336.722.8 (043.2)

Synyak Y.V.
National Aviation University, Kyiv

BODY LANGUAGE. HOW TO FIND SWINDLERS BY THEIR MOVEMENTS AND PREVENT THE FINANCIAL CRISES

No doubts, there are a lot of problems in the economy. The leading role among them is such a phenomenon as fraud, financial pyramids. It seemed that it was impossible to prevent people from them at 93%, as statistics show. However, nothing is so capable of expressing the intentions of a person as his body movement.

Albert Meyerabian found that the transfer of information occurs by means of verbal means (only words) by 7%, by means of sound (including voice, intonation of sound) by 38%, and by non-verbal means by 55%. Often, due to a detailed analysis of behavior, you can learn about the intentions of a person, and in some cases, the ability to anticipate and in the future to prevent global mistakes and disasters. According to psychological peculiarities of behavior, level of intellectual development, a circle of interests, life experiences of scammers, special peculiar features of fraudsters and behavior patterns are distinguished. Fraudsters have a good self and their emotions, well-oriented in psychology and accordingly use in their own interests of human weaknesses: inattention, desire for profit or desire to profit in any way, even contrary to the existing order, if it does not become known to others, etc. Shagers are characterized by high communicability, determination in actions, ability to reincarnation. This allows them to make an appropriate impression on others, attract attention. It is also promoted by good behavior, fashion clothes, self-portrayal of prestigious professions: entrepreneurs, government officials, lawyers, doctors, etc.

The typical gestures with which you can identify a financial swindler are the following:

1. When an adult man lies, his brain sends him an impulse to cover his mouth, in an attempt to delay the word of deception, as it is done by a five-year-old child or

adolescent, but at the last moment, his hand shrugs from his mouth and another gesture-to-nose is born. This means that the information provided is not reliable and you need to think about verifying it, whether you believe in this person or not. 2. If you tell a blatant lie, and your palms are open at the same time, you can still seem insincere to your interlocutors, because you will lack other gestures that characterize the person who speaks the truth, but negative gestures are typical for those who say lies; and all of it will not be combined with your open palms. Putting out thumbs speaks about the power, superiority and even aggression of a person. 3. Rubbing the Century. This gesture is caused by the desire in the brain to escape from the deceit, suspicion or lies with which he encounters, or the desire to avoid eye contact with the person to whom he is telling untruth. 4. Men usually rub the eyelid in a very energetic way, and if the lie is very serious, then they turn their gaze to the side, usually to the floor. In the study of the gestures of people accompanying their lies, Desmond Morris noticed that the lie causes an itchy sensation in the tender muscular tissues of the face and neck, and scratching is required to soothe these sensations. 5. Fixing Hands for the Head. If a person puts his hands behind his head, this indicates his confidence and persistence. And also that a person skillfully and competently issues false facts for reality, thereby deceiving you, turning his scam.

So, having analyzed the behavior of Sergei Mavrodi, the founder of MMM, which is considered to be the classic and largest financial pyramid in the history of the country, one can observe a certain pattern in his behavior, one of which is the casting of a hand for a head. After all, this testifies to the fact that he manipulates people, throws aggressive views in their direction. Casting his leg on the leg testifies to what he regards above all. He answered quickly on every question specifically relating to his financial pyramid, telling a person the wrong facts while correcting the tie.

These signals could prevent the spread of manipulations over large masses of people. Mastering these techniques requires a lot of time and practice, but thanks to them you can prevent cheating.

*Scientific supervisor: Davydenko T.A.,
PhD, Senior Lecturer*

UDC 004:681.5 (043.2)

Tereshchuk Ya.Ye.

National Aviation University, Kyiv

GAME OF LIFE AS A MATHEMATICAL MODEL

The Game of Life is a cellular automaton, which was created in 1970 by the English mathematician John Horton Conway. This was a manifestation of interest in the problem of John von Neumann, which was invented in the 1940s, and was to develop a hypothetical machine that would have the ability to make copies of itself. For the first time, the description of this game was published in Scientific American magazine in the category of Martin Gardner "Mathematical games".

The action of the game unfolds on a plane, infinite on both sides and divided into cells, which is called the universe. Each cell has eight neighbors: on the sides, top, bottom and on the diagonal. Also, each cell can be in two states: live (inhabited), non-living (not inhabited). The initial distribution of cells that are in a state of living