Таблиця 5. Наукові, науково-педагогічні працівники, які мають не менше п’яти наукових публікацій у періодичних виданнях, які на час публікації було включено до науко метричних баз Scopus або Web of Science.

Факультет (інститут)	Кафедра, відділ тощо	Прізвище, ім’я, по батькові наукового, науково-педагогічного працівник	Кількість публікацій Scopus	Назва та реквізити публікацій Scopus (прирівняні відзнаки)	Кількість публікацій Web of Science	Назва та реквізити публікацій Web of Science (прирівняні відзнаки)
!ФАЕМ	Кафедра менеджменту біоресурсів і природокористування	Гевко Роман Богданович	12	Hevko, R., Brukhanskyi, R., Flonts, I., Synii, S., Klendii, O. 56158052200;57203579103;57193626853;57193630094;56156635200; Advances in methods of cleaning root crops (2018) 11 (60), pp. 127-138. https://www.scopus.com/inward/record.uri?eid=2-s2.0-85052315719&partnerID=40&md5=93443b7cea55411df3fe7ab860e5d8f4 Hevko, R.B., Liubin, M.V., Tokarchuk, O.A., Lyashuk, O.L., Pohrishchuk, B.V., Klendii, O.M. 56158052200;57194158544;57194163502;56624505400;57204110569;56156635200; Determination of the parameters of transporting and mixing feed mixtures along the curvilinear paths of tubular conveyors [ВизначенняПараметрівПроцесуТранспортуванняТаЗмішуванняКормовихСумішейНаКриволінійнихТрасахТрубчатихКонвеєрів] (2018) 55 (2), pp. 97-104. https://www.scopus.com/inward/record.uri?eid=2-s2.0-85054525623&partnerID=40&md5=e576a54ec7e75f6f16a52e123a4be571 Hevko, R.B., Strishenets, O.M., Lyashuk, O.L., Tkachenko, I.G., Klendii, O.M., Dzyura, V.O. 56158052200;57189354763;56624505400;56830242600;56156635200;56401042000; Development of a pneumatic screw conveyor design and substantiation of its parameters (2018) 54 (1), pp. 153-160. https://www.scopus.com/inward/record.uri?eid=2-s2.0-85053484099&partnerID=40&md5=5bdd8ec973095080f9afe89de7494f9c Baranovsky, V.M., Hevko, R.B., Dzyura, V.O., Klendii, O.M., Klendii, M.B., Romanovsky, R.M. 57194162377;56158052200;56401042000;56156635200;57189696414;56472755800; Justification of rational parameters of a pneumoconveyor screw feeder (2018) 54 (1), pp. 15-24. https://www.scopus.com/inward/record.uri?eid=2-s2.0-85053484007&partnerID=40&md5=ee96ecf2c3d40dfa7dd66ba650a967cc Hevko, B.M., Hevko, R.B., Klendii, O.M., Buriak, M.V., Dzyadykevych, Y.V., Rozum, R.I. 56342013000;56158052200;56156635200;57201023849;6506014979;57192678146; Improvement of machine safety devices (2018) 58 (1), pp. 17-25. https://www.scopus.com/inward/record.uri?eid=2-s2.0-85042932592&doi=10.14311%2fAP.2018.58.0017&partnerID=40&md5=1d821de1e2d7a9203fe85cac945bae6d Hevko, R.B., Baranovsky, V.M., Lyashuk, O.L., Pohrishchuk, B.V., Gumeniuk, Y.P., Klendii, O.M., Dobizha, N.V. 56158052200;57194162377;56624505400;57204110569;57205224457;56156635200;57205220529; The influence of bulk material flow on technical and economical performance of a screw conveyor (2018) 56 (3), pp. 175-184.		

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!ФКІТ	Кафедра економічної кібернетики та інформатики	Хома Надія Григорівна	6	Mitropol'skii, Yu.A., Khoma, N.G., Khoma, S.G. 16413497700;25030348500;10042524200; Smooth solution of the dirichlet problem for a quasilinear hyperbolic equation of the second order (2000) 52 (7), pp. 1068-1074. https://www.scopus.com/inward/record.uri?eid=2-s2.0-52849131856&doi=10.1023%2fA%3a1005277616733&partnerID=40&md5=12602ffbab4e58fadd1459b022da0c82		

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!ФКІТ	Кафедра інформаційно-обчислювальних систем і управління	Биковий Павло Євгенович	21	Xu, H., Cao, Q., Fang, C., Fu, Y., Su, J., Wei, S., Bykovyy, P. 57204938464;57204941599;57204941738;57202743338;57207295033;57204945339;7801584826; Application of elephant herd optimization algorithm based on levy flight strategy in intrusion detection (2018) art. no. 8525848, pp. 16-20. https://www.scopus.com/inward/record.uri?eid=2-s2.0-85058031659&doi=10.1109%2fIDAACS-SWS.2018.8525848&partnerID=40&md5=2ba3e130545ba574eba0ac6c1f146365 Zahorodnia, D., Pigovsky, Y., Bykovyy, P., Krylov, V., Sachenko, A., Molga, A. 54421527700;24833293100;7801584826;16202975800;35518445600;50661585600; Automated video surveillance system based on hierarchical object identification (2018) pp. 194-199. https://www.scopus.com/inward/record.uri?eid=2-s2.0-85050303224&doi=10.1109%2fDAAS.2018.8396095&partnerID=40&md5=c5901d2042ae5b97e94d5d66448f9379 Zahorodnia, D., Pigovsky, Y., Bykovyy, P., Krylov, V., Sachenko, A. 54421527700;24833293100;7801584826;16202975800;35518445600; Information technology for structural and statistical identification of hierarchical objects		

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!ФКІТ	Кафедра інформаційно-обчислювальних систем і управління	Дорош Віталій Іванович	5	Komar, M., Dorosh, V., Hladiy, G., Sachenko, A. 35366491300;35366175300;57103800900;35518445600; Deep neural network for detection of cyber attacks (2018) art. no. 8516753, . https://www.scopus.com/inward/record.uri?eid=2-s2.0-85057420933&doi=10.1109%2fSAIC.2018.8516753&partnerID=40&md5=b6f905d96fb4752865e71f0ebf9dccac Komar, M., Yakobchuk, P., Golovko, V., Dorosh, V., Sachenko, A. 35366491300;57204562086;36856657900;35366175300;35518445600; Deep Neural Network for Image Recognition Based on the Caffe Framework (2018) art. no. 8478621, pp. 102-106. https://www.scopus.com/inward/record.uri?eid=2-s2.0-85056187497&doi=10.1109%2fDSMP.2018.8478621&partnerID=40&md5=83ff063ab4d8636187997f35020cc2ba Dorosh, V., Komar, M., Sachenko, A., Golovko, V. 35366175300;35366491300;35518445600;36856657900; Parallel Deep Neural Network for Detecting Computer Attacks in Information Telecommunication Systems (2018) art. no. 8477530, pp. 675-679. https://www.scopus.com/inward/record.uri?eid=2-s2.0-85050688710&doi=10.1109%2fELNANO.2018.8477530&partnerID=40&md5=bc2b88c16f5afcd81b3ece6cd1608806 Komar, M., Sachenko, A., Golovko, V., Dorosh, V. 35366491300;35518445600;36856657900;35366175300; Compression of network traffic parameters for detecting cyber attacks based on deep learning (2018) pp. 43-47. https://www.scopus.com/inward/record.uri?eid=2-s2.0-85050660782&doi=10.1109%2fDESSERT.2018.8409096&partnerID=40&md5=9ad3f994a9390d7dd4b2a5a6c9794f0c Stetsenko, I.V., Dorosh, V.I., Dyfuchyn, A. 55368781500;35366175300;57103550100; Petri-object simulation: Software package and complexity (2015) 1, art. no. 7340762, pp. 381-385. https://www.scopus.com/inward/record.uri?eid=2-s2.0-84957546752&doi=10.1109%2fIDAACS.2015.7340762&partnerID=40&md5=823a8a3480cb5076e1c73107cfd1bc55 Adamiv, O., Koval, V., Kapura, V., Dorosh, V., Sapozhnyk, G. 24179445600;16552460800;24722497600;35366175300;35318660700; Mobile robot navigation method for environment with dynamical obstacles (2009) art. no. 5342926, pp. 515-518. https://www.scopus.com/inward/record.uri?eid=2-s2.0-74549163687&doi=10.1109%2fIDAACS.2009.5342926&partnerID=40&md5=e2495800113e5a5f93dc646450fc3fad		

!ФКІТ	Кафедра інформаційно-обчислювальних систем і управління	Загородня Діана Іванівна	7	Kovalchuk, M., Sachcnko, A., Koval, V., Zahorodnia, D. 57204568741;57204566443;16552460800;54421527700; Development of Real-time Face Recognition System Using Local Binary Patterns (2018) art. no. 8478472, pp. 609-614. https://www.scopus.com/inward/record.uri?eid=2-s2.0-85056202278&doi=10.1109%2fDSMP.2018.8478472&partnerID=40&md5=4768279a498f2d2bd8c62c3c16f86325 Zahorodnia, D., Pigovsky, Y., Bykovyy, P., Krylov, V., Sachenko, A., Molga, A. 54421527700;24833293100;7801584826;16202975800;35518445600;50661585600; Automated video surveillance system based on hierarchical object identification (2018) pp. 194-199. https://www.scopus.com/inward/record.uri?eid=2-s2.0-85050303224&doi=10.1109%2fDAAS.2018.8396095&partnerID=40&md5=c5901d2042ae5b97e94d5d66448f9379 Zahorodnia, D., Pigovsky, Y., Bykovyy, P., Krylov, V., Sachenko, A. 54421527700;24833293100;7801584826;16202975800;35518445600; Information technology for structural and statistical identification of hierarchical objects (2018) 2018-April, pp. 272-275. https://www.scopus.com/inward/record.uri?eid=2-s2.0-85047400951&doi=10.1109%2fTCSET.2018.8336201&partnerID=40&md5=77b60ac1b57712937bb5050837fa2227 Zahorodnia, D., Pigovsky, Y., Bykovyy, P., Krylov, V., Rusyn, B., Koval, V. 54421527700;24833293100;7801584826;16202975800;24479899900;16552460800; Criteria to estimate quality of methods selecting contour inflection points (2017) 2, art. no. 8095231, pp. 969-973. https://www.scopus.com/inward/record.uri?eid=2-s2.0-85040092595&doi=10.1109%2fIDAACS.2017.8095231&partnerID=40&md5=8c64bbe4bcdf379ef3c4d08bc7c535f2 Zahorodnia, D., Pigovsky, Y., Bykovyy, P. 54421527700;24833293100;7801584826; Canny-based method of image contour segmentation (2016) 15 (3), pp. 200-205. https://www.scopus.com/inward/record.uri?eid=2-s2.0-85020954415&partnerID=40&md5=2e66b779957dbc014b0c3a3531b39114 Zahorodnia, D., Pigovsky, Y., Bykovyy, P., Krylov, V., Paliy, I., Dobrotvor, I. 54421527700;24833293100;7801584826;16202975800;24178023300;55400506500; Structural statistic method identifying facial images by contour characteristic points (2015) 1, art. no. 7340746, pp. 293-297. https://www.scopus.com/inward/record.uri?eid=2-s2.0-84957573183&doi=10.1109%2fIDAACS.2015.7340746&partnerID=40&md5=bbe3b99a4b3e4194a250a43cc72ae267 Paliy, I., Dovgan, V., Boumbarov, O., Panev, S., Sachenko, A., Kurylyak, Y., Zagorodnya, D. 24178023300;54789546000;23134683500;35318425400;35518445600;24722588600;54421527700; Fast and robust face detection and tracking framework (2011) 1, art. no. 6072790, pp. 430-434. https://www.scopus.com/inward/record.uri?eid=2-s2.0-82955186229&doi=10.1109%2fIDAACS.2011.6072790&partnerID=40&md5=25c9e8f8ffc47056ef889216c9d24b35		
!ФКІТ	Кафедра інформаційно-обчислювальних систем і управління	Карачка Андрій Федорович	7	Golovko, V., Bezobrazov, S., Kroshchanka, A., Sachenko, A., Komar, M., Karachka, A. 36856657900;6602403139;56239642600;35518445600;35366491300;7801322433; Convolutional neural network based solar photovoltaic panel detection in satellite photos (2017) 1, art. no. 8094501, pp. 14-19.		

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!ФКІТ	Кафедра інформаційно-обчислювальних систем і управління	Коваль Василь Сергійович	18	Kovalchuk, M., Sachcnko, A., Koval, V., Zahorodnia, D. 57204568741;57204566443;16552460800;54421527700; Development of Real-time Face Recognition System Using Local Binary Patterns (2018) art. no. 8478472, pp. 609-614. https://www.scopus.com/inward/record.uri?eid=2-s2.0-85056202278&doi=10.1109%2fDSMP.2018.8478472&partnerID=40&md5=4768279a498f2d2bd8c62c3c16f86325		

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!ФКІТ	Кафедра інформаційно-обчислювальних систем і управління	Осолінський Олександр Романович	7	Osolinskiy, O., Kochan, O., Winiecki, W., Yatskiv, N., Kochan, V., Grzeszczyk, K. 24479928900;24477221900;6507184092;24179417600;6701835869;57200181682; Researching robustness of information system for measuring of microcontrollers average power consumption (2017) 2, art. no. 8095165, pp. 612-616. https://www.scopus.com/inward/record.uri?eid=2-s2.0-85040067063&doi=10.1109%2fIDAACS.2017.8095165&partnerID=40&md5=9a29c83478bf36946d4338210f246e64 Kochan, V., Kochan, O., Osolinskiy, O. 6701835869;24477221900;24479928900; Method of microprocessors average energy consumption measurements (2013) 1, art. no. 6662647, pp. 94-98. https://www.scopus.com/inward/record.uri?eid=2-s2.0-84892652811&doi=10.1109%2fIDAACS.2013.6662647&partnerID=40&md5=d762df8db3e71fb3fd60b2d8c28dbbcf Yatskiv, V., Jun, S., Yatskiv, N., Sachenko, A., Osolinskiy, O. 27468042400;24722752200;24179417600;35518445600;24479928900; Multilevel method of data coding in WSN (2011) 2, art. no. 6072894, pp. 863-866. https://www.scopus.com/inward/record.uri?eid=2-s2.0-82955176947&doi=10.1109%2fIDAACS.2011.6072894&partnerID=40&md5=c0628bb41ae3935416423865d029a654 Cherkaskyy, M., Sachenko, A., Osolinskiy, O. 24177999600;35518445600;24479928900; Algorithm conception clarification based on the SH-model (2007) art. no. 4488426, pp. 300-303. https://www.scopus.com/inward/record.uri?eid=2-s2.0-50149105289&doi=10.1109%2fIDAACS.2007.4488426&partnerID=40&md5=de1aacffeabf868ae8ce765b810f2942 Hrusha, V., Kochan, R., Kurylyak, Y., Osolinskiy, O. 24179404800;6701381337;24722588600;24479928900;		

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!ФКІТ	Кафедра інформаційно-обчислювальних систем і управління	Саченко Анатолій Олексійович	160	Golovko, V., Kroshchanka, A., Bezobrazov, S., Sachenko, A., Komar, M., Novosad, O. 36856657900;56239642600;6602403139;35518445600;35366491300;57207771078; Development of Solar Panels Detector (2019) art. no. 8632132, pp. 761-764. https://www.scopus.com/inward/record.uri?eid=2-s2.0-85062822443&doi=10.1109%2fINFOCOMMST.2018.8632132&partnerID=40&md5=3fbe1ee8e76e84b2075c395704fcf7a5 Su, J., Sachenko, A., Lytvyn, V., Vysotska, V., Dosyn, D. 56872206300;35518445600;56446930100;24484045400;56983080500; Model of Touristic Information Resources Integration According to User Needs (2018) 2, art. no. 8526748, pp. 113-116. https://www.scopus.com/inward/record.uri?eid=2-s2.0-85058113788&doi=10.1109%2fSTC-CSIT.2018.8526748&partnerID=40&md5=05983316cb0f98b2bf3c22628d1d9aa9 Yatskiv, V., Sachenko, A., Kochan, V., Osolinsky, O. 27468042400;35518445600;6701835869;35366968100; Technique of green wave regulation for special purpose vehicles (2018) art. no. 8525811, pp. 238-240. https://www.scopus.com/inward/record.uri?eid=2-s2.0-85058060499&doi=10.1109%2fIDAACS-SWS.2018.8525811&partnerID=40&md5=58e8be9e44521f0df1df6a31b6a1872b Komar, M., Dorosh, V., Hladiy, G., Sachenko, A. 35366491300;35366175300;57103800900;35518445600; Deep neural network for detection of cyber attacks (2018) art. no. 8516753, . https://www.scopus.com/inward/record.uri?eid=2-s2.0-85057420933&doi=10.1109%2fSAIC.2018.8516753&partnerID=40&md5=b6f905d96fb4752865e71f0ebf9dccac Komar, M., Yakobchuk, P., Golovko, V., Dorosh, V., Sachenko, A. 35366491300;57204562086;36856657900;35366175300;35518445600; Deep Neural Network for Image Recognition Based on the Caffe Framework (2018) art. no. 8478621, pp. 102-106. https://www.scopus.com/inward/record.uri?eid=2-s2.0-		

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!ФКІТ	Кафедра спеціалізованих комп'ютерних систем	Якименко Ігор Зіновійович	18	Yakymenko, I.Z., Kasianchuk, M.M., Ivasiev, S.V., Melnyk, A.M., Nykolaichuk, Y.M. 24178191500;56403369100;57103553400;35216311600;24179012300; Realization of Rsa cryptographic algorithm based on vector-module method of modular exponention (2018) 2018-April, pp. 550-554. https://www.scopus.com/inward/record.uri?eid=2-s2.0-85047459597&doi=10.1109%2fTCSET.2018.8336262&partnerID=40&md5=4fc7772c0e242f1b5106fe592130ed08 Kasianchuk, M., Yakymenko, I., Ivasiev, S., Shevchuk, R., Tymoshenko, L. 56403369100;24178191500;57103553400;24178081800;57205432590; The method of factorizing multi-digit numbers based on the operation of adding odd numbers (2018) 2300, pp. 232-235. https://www.scopus.com/inward/record.uri?eid=2-s2.0-85060007212&partnerID=40&md5=593bbf81318885f067681c751840b3f8 Rajba, T., Klos-Witkowska, A., Ivasiev, S., Yakymenko, I., Kasianchuk, M. 11339855000;7006704987;57103553400;24178191500;56403369100; Research of time characteristics of search methods of inverse element by the module (2017) 1, art. no. 8095054, pp. 82-85. https://www.scopus.com/inward/record.uri?eid=2-s2.0-85040042775&doi=10.1109%2fIDAACS.2017.8095054&partnerID=40&md5=027631cc759e41038abaa868917c70d9 Kasianchuk, M., Yakymenko, I., Pazdriy, I., Melnyk, A., Ivasiev, S.		

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!ФОА	Кафедра економічної експертизи та аудиту бізнесу	Саченко Світлана Іванівна	7	Lytvyn, V., Vysotska, V., Pukach, P., Nytrebych, Z., Demkiv, I., Senyk, A., Malanchuk, O., Sachenko, S., Kovalchuk, R., Huzyk, N. 56446930100;24484045400;24344600300;16449132300;8512686500;57207314743;57193440603;24723255800;57194163686;55932332800; Analysis of the developed quantitative method for automatic attribution of scientific and technical text content written in Ukrainian (2018) 6 (2-96), pp. 19-31. https://www.scopus.com/inward/record.uri?eid=2-s2.0-85062425803&doi=10.15587%2f1729-4061.2018.149596&partnerID=40&md5=ad0aa74bbce021024a1ec9438c3a4e9c Chereshnyuk, O., Panasyuk, V., Sachenko, S., Banasik, A., Golyash, I. 57200180939;57200174627;24723255800;24722815100;35317398900; Fuzzy-multiple approach in choosing the optimal term for implementing the innovative project (2017) 1, art. no. 8095138, pp. 533-536. https://www.scopus.com/inward/record.uri?eid=2-s2.0-85040055612&doi=10.1109%2fIDAACS.2017.8095138&partnerID=40&md5=74debe069f6bf9036435d34352a8425d Lendyuk, T., Sachenko, S., Rippa, S., Sapojnyk, G. 24179425800;24723255800;24179122700;24480099800; Fuzzy rules for tests complexity changing for individual learning path construction (2015) 2, art. no. 7341443, pp. 945-948. https://www.scopus.com/inward/record.uri?eid=2-s2.0-84957573625&doi=10.1109%2fIDAACS.2015.7341443&partnerID=40&md5=f7d55ccf9a10974fdd0bb2d80f3d4f17 Lendyuk, T., Rippa, S., Sachenko, S. 24179425800;24179122700;24723255800; Simulation of computer adaptive learning and improved algorithm of pyramidal testing (2013) 2, art. no. 6663028, pp. 764-769. https://www.scopus.com/inward/record.uri?eid=2-s2.0-84892652190&doi=10.1109%2fIDAACS.2013.6663028&partnerID=40&md5=809bc8534e20bd90a76c1aafd61617b6 Golyash, I., Sachenko, S., Rippa, S. 35317398900;24723255800;24179122700; Improving the information security audit of enterprise using XML technologies (2011) 2, art. no. 6072879, pp. 795-798. https://www.scopus.com/inward/record.uri?eid=2-s2.0-82955176961&doi=10.1109%2fIDAACS.2011.6072879&partnerID=40&md5=d45f12f595f31579357e7557e3c13f56 Rippa, S., Sachenko, S., Krupka, Y. 24179122700;24723255800;35366388100; Pre-conditions of ontological approaches application for knowledge management in accounting (2009) art. no. 5342906, pp. 605-608. https://www.scopus.com/inward/record.uri?eid=2-s2.0-74549114889&doi=10.1109%2fIDAACS.2009.5342906&partnerID=40&md5=e37c06977e5d8abf758c57570de62b42 Pushkar, M., Rippa, S., Sachenko, S. 24723186800;24179122700;24723255800; Intellectualization of accounting system (2007) art. no. 4488477, pp. 536-538. https://www.scopus.com/inward/record.uri?eid=2-s2.0-50149117608&doi=10.1109%2fIDAACS.2007.4488477&partnerID=40&md5=43933a316b80a281890e5407ace270fd		

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ННІІОТ	Кафедра прикладної математики	Березька Катерина Миколаївна	5	Berezsky, O., Pitsun, O., Batryn, N., Berezska, K., Savka, N., Dolynyuk, T. 16479742300;57190575875;57200143845;6505525762;37122689500;57204559267; Image Segmentation Metric-Based Adaptive Method (2018) art. no. 8478579, pp. 554-557. https://www.scopus.com/inward/record.uri?eid=2-s2.0-85056197256&doi=10.1109%2fDSMP.2018.8478579&partnerID=40&md5=7bceb50d64162c15a01b5ac610692c31 Berezsky, O., Pitsun, O., Batryn, N., Datsko, T., Berezska, K., Dubchak, L. 16479742300;57190575875;57200143845;57188574014;6505525762;56008186500; Modern automated microscopy systems in oncology (2018) 2255, pp. 311-325. https://www.scopus.com/inward/record.uri?eid=2-s2.0-85057802074&partnerID=40&md5=9f49335e00b707fee5c802f5090f4d0c Dubchak, L., Verbovyy, S., Berezska, K., Datsko, T. 56008186500;57103702600;6505525762;57188574014; Fuzzy knowledge base for diagnosing breast cancer pathological processes (2017) 1, art. no. 8098731, pp. 36-39. https://www.scopus.com/inward/record.uri?eid=2-s2.0-85040771023&doi=10.1109%2fSTC-CSIT.2017.8098731&partnerID=40&md5=8dbc04d4f10218384b7f51a28dd1277b Berezska, K.M., Berezsky, O.M., Masliy, V.V. 6505525762;16479742300;36069237300; Assessment of regional disparities of foreign investments in Ukraine (2013) 150 (12), pp. 106-114. https://www.scopus.com/inward/record.uri?eid=2-s2.0-84922475277&partnerID=40&md5=f84d71fc1430e37d9b06d22e9181445f Berezka, K.M., Masliy, V.V. 6505525762;36069237300; Methodological aspects of applying model of fuzzy time series in forecasting tax revenues (2011) 115 (1), pp. 227-235. https://www.scopus.com/inward/record.uri?eid=2-s2.0-84930491798&partnerID=40&md5=5977ca8884e8412815e0fada37586ce8 Berezsky, O., Berezska, K., Melnyk, G., Batko, Y. 16479742300;6505525762;27867794600;36068957200; Design of computer systems for biomedical image analysis (2009) art. no. 4839801, pp. 186-191. https://www.scopus.com/inward/record.uri?eid=2-s2.0-67650699583&partnerID=40&md5=61ea9d85adc5e7d878cc4ebce1804ab1 Berezsky, O.M., Berezska, K.M., Adamiv, O.P. 16479742300;6505525762;24179445600; Image contour analysis in local coordinates (2007) art. no. 4488446, pp. 393-398. https://www.scopus.com/inward/record.uri?eid=2-s2.0-50149096035&doi=10.1109%2fIDAACS.2007.4488446&partnerID=40&md5=77dc283b2bdf16640b3516eddbeab03b		

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Разом		**51**	**879**			
		П14	**П15**			