

International Competition of Student Scientific Works “Black Sea Science 2022”

Results for the field of “Information Technologies, Automation and Robotics”

Place	Country	Institution	Work Title	Author(s)	Supervisor(s)	Score
I	Ukraine	V. N. Karazin Kharkiv National University	A compiler of domain-specific language for "smart-home" applications: design principles and implementation issues	Nelipa Oleksandr	Tkachuk Mykola	96,00
I	Ukraine	Kiev National University of Technologies and Design	Use of web-technologies in the problem of digitalization of the dormitory	Liakhovska Daria, Kochuk Diana	Astistova Tetyana	94,00
I	Ukraine	National Technical University “Kharkiv Polytechnic Institute”	Research application of the spam filtering and spammer detection algorithms on social media	Oliinyk Vasyl	Podorozhniak Andrii, Liubchenko Nataliia	91,33
II	Ukraine	National Technical University “Dnipro Polytechnic”	Modelling and investigation of the influence of bicycle frame design parameters on its ergonomic properties	Mankovska Kateryna	Moskalyova Tetiana	90,33
II	Ukraine	Donbass State Engineering Academy	Decision support system for supplying logistics when supplying residents of small cities with drinking water in extreme cases	Zakabula Oleksij	Melnykov Oleksandr	90,00
II	Ukraine	Vinnytsia National Technical University	Improving the level of detailing in the formation of realistic three-dimensional scenes	Zaharchyk Max	Romanyuk Oksana	90,00
II	Ukraine	Petro Mohyla Black Sea National University	Development of software for automation of knowledge testing	Kiyashko Maksym	Kirei Kateryna	88,00
III	Ukraine	Odessa National Technological University	Synthesis of the control system with neurocontroller	Sholopko Dmitry	Gurskiy Alexander	87,67
III	Ukraine	Ukrainian State University of Science and Technologies	Development of software module for analysis of it specialists’ labor market	Dub Anhelina	Zhurba Anna	87,00
III	Ukraine	Odessa National Technological University	Control system of condensing drying process with energy recovery Using heat pump	Caplygin Denis	Kovalchuk Dmytro	86,50

III	Ukraine	Khmelnyskyi National University	Cyber-physical system for smart parking based on computer vision technology	Avsiyevych Volodymyr, Kovalenko Volodymyr	Pavlova Olga, Radiuk Pavlo	86,00
III	Lithuania	Vytautas Magnus University	A real-world case study of a vehicle routing problem	Matusevicius Arnas, Karolis Lašas	Krilavičius Tomas	85,50
III	Ukraine	Donbass State Engineering Academy	Decision support system for forecasting the numbers of the troop in the middle ages	Kapeleshchuk Andrey	Melnykov Oleksandr	85,50
	Ukraine	Ukrainian State University of Science and Technologies	Detection of network attacks of the u2r category by means of the kohonen self-organizing map	Mehelbei Yehor	Pakhomova Victoria	84,50
	Ukraine	National Technical University «Kharkiv Polytech-nic Institute»	Automation of collection and processing of information about publications of the department teachers	Kostiuk Yevhenii	Dvukhhlavov Dmytro	84,33
	Ukraine	Vinnytsia National Technical University Vinnytsia Mykhailo Kotsiubynskyi State Pedagogical University	Open api application for human health: smart gadget, meteorological gis	Mazur Maksym, Liulko Yurii	Klochko Oksana, Fedorets Vasyl	84,33
	Ukraine	Khmelnyskyi National University	Augmented reality based technology and scenarios for route planning and visualization	Bashta Andriy	Pavlova Olga	83,50
	Ukraine	National University of Food Technology	Practical aspects of pneumatic transportation of bulk food products	Bahdasarian Davyd	Krivoplyas-Volodina Liudmyla	83,00
	Ukraine	National University LVIV POLYTECHNIC	System for forecasting of student evaluations	Sheredko Mykola, Cherniha Markiiian	Fedorchuk Yevdokym	83,00
	Ukraine	Professional College of Industrial Automation and Information Technology of Odessa National Academy of Food Technologies	Using ultrasonic sensors and arduino microcontroller for development of contactless projects	Isaiko Svitlana, Pohorieltsev Pavlo	Muntian Iryna	82,00
	Ukraine	Yuriy Fedkovytch Chernivtsi National University	Crossbase - database management environment	Zakharov Mykyta	Dvorzhak Valentyna	81,00
	Ukraine	Kyiv National University of Trade and Economics	Software for data protection against unauthorized access	Horiuk Vasyl	Samoilenko Yuliia	80,25

	Ukraine	Donbass State Engineering Academy	Application for tracking vaccinated students in educational institution	Kozub Dmytro	Melnykov Oleksandr	80,00
	Ukraine	Petro Mohyla Black Sea National University	Automate scanning of installed software	Stoiev Yevhenii	Kirei Kateryna	80,00
	Ukraine	Ukrainian State University of Science and Technologies	Development of a parametric model of a building in the OpenSCAD system	Uzlova Maria	Zhurba Anna	79,00
	Ukraine	Professional College of Industrial Automation and Information Technology of Odessa National Academy of Food Technologies	Application of artificial neural networks in teaching scheduling problem	Bahrii Andrii, Ivanov Yurii	Muntian Iryna, Molodit Olena	79,00
	Ukraine	Kherson Educational-Scientific Institute of Admiral Makarov National University of Shipbuilding	Power supply of the propulsion and steering complex of the submarine cargo type	Kozanchyn Ivan	Blintsov Vladimir	78,00
	Ukraine	Vasyl' Stus Donetsk National University	Navigation algorithm for optimal choice of the vehicle city route	Priamukhina Olena-Mariia	Nikolyuk Peter	77,50
	Bulgaria	University of Food Technologies	Mobile application for interactive training in physics and astronomy	Ivanov Ivaylo	Danev Angel	76,33
	Ukraine	Mariupol State University	Integration potential of slack application for cultivating soft skills of it majors	Marakhovskiy Denys	Rotanova Nataliia	76,00
	Ukraine	Professional College of Industrial Automation and Information Technology of Odessa National Academy of Food Technologies	Cloud servers and their advantages over vps and vds	Tkach Danylo, Tanasiichuk Kyrylo	Muntian Iryna, Kostyrenko Tetiana	76,00
	Ukraine	Donbass State Engineering Academy	Application for detection of illegal logging	Denysenko Viktoriia	Melnykov Oleksandr	75,00
	Ukraine	Sumy state university	Protection of information in messages and chats	Shirokov Dmytro	Liubchak Volodymyr	75,00
	Ukraine	Vinnitsia State Pedagogical University named after Mykhailo Kotsyubynsky	NFT – DIGITAL ART	Hrinberh Oleksandra, Tsarenko Dmytro	Shevchenko Liudmyla, Umanets Volodymyr	74,50
	Ukraine	Kharkiv National Road university	Method of multiscale coincidence of pulses for measuring temporary loads from moving vehicles in bridges and overpasses	Sherbinina Julia	Levterov Andrii	74,50

	Kazakhstan	K.Zhubanov Aktobe Regional University	Guide robot for the blind	Seiilkhanova Ademi	Ramankulov Askhat	74,50
	Kazakhstan	Almaty Technological University	Development of a mobile application in Dart using the Flutter framework as an example of an application for easy access to an online conference	Kuandykkyzy Aiymgul	Talpakova Balzhan	72,50
	Ukraine	Odessa National Technological University	Use of cluster analysis methods in automation of sales management of bakery products	Marochko Olga	Zhygailo Oleksii	72,00
	Ukraine	Kryvyi Rih Pedagogical University	A Wireless Indoor Tracking System for Academic Cheating Detection	Onyshchenko Yana, Boychenko Maksym, Lytvynenko Vitaliy	Merzlykin Pavlo, Ivanova Halyna	71,00
	Ukraine	National aerospace university named after M.Y. Zhukovsky «Kharkiv Aviation Institute»	Control of vertical takeoff and landing vehicles	Vystoropska Valentyna, Kravtsova Oleksandra	Bykov Andrii, Popov Oleksii	70,67
	Ukraine	Lutsk National Technical University	Digital backpack	Babij Sergij	Lukianchuk Iurii	69,00
	Ukraine	Vinnytsia Institute of Trade and Economics of Kyiv National University of Trade and Economics	Using of modern information technologies for the forecasting economic processes on the basis of multifactorial regressional models	Severenchuk Ann, Panchuk Julia	Radzikhovska Larisa	68,75
	Ukraine	Lutsk National Technical University	Optimization of function type choice process for experimental data approximation	Diachenko Roman	Pekh Petro	68,50
	Ukraine	Professional College of Industrial Automation and Information Technology of Odessa National Academy of Food Technologies	Architecture transformer	Savchenko Sofia, Verbinskiy Danyla	Muntian Iryna	66,67
	Ukraine	National aerospace university named after M.Y. Zhukovsky «Kharkiv Aviation Institute»	Development of a milling machine with computer numerical control	Shuvalov Danylo	Kochuk Serhii	66,67
	Ukraine	Donbass State Engineering Academy	Application for detection of color anomalies	Kanishev Vladislav	Melnykov Oleksandr	65,00
	Ukraine	Pavlo Tychyna Uman State Pedagogical University	Gas-detect	Osipenko Volodymyr, Popesku Andrii, Khytruk Yevhenii	Makhometa Tetiana, Tiahai Ivan	62,00

	Ukraine	Professional College of Oil and Gas Technologies of Infrastructure Engineering Service of the Odessa National Academy of Food Technologies	Automated access system on the microcontroller system arduino-uno	Kirik Dmitry	Volchkov Igor	60,67
	Ukraine	OTPC Odessa National Technological University	AI or how communication with a robot has become the norm	Popov Denys, Chornyi Volodymyr, Borovetsky Yuriy	Kunup Tetiana	59,67
	Ukraine	Chernihiv Polytechnic National University	Current trends in web design development	Herasimchuk Mariya	Riabova Tetiana	58,00
	Ukraine	Kyiv National university of trade and economics	Usefully	Pylypenko Yaroslav	Djurova Tatiana	56,00
	Ukraine	University of customs and finance	Creating gif-animation of a philosophical vision of the abstract concept of "life"	Alisova Kseniya	Rudyanova Tatyana	47,75