2021

Internship program of Skoltech **MSc Students** «Industrial Immersion»

Skolkovo Institute of Science and Technology

Skoltech

project book



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Essentials



Industrial immersion partner company - industrial enterprise or organization of the industrial sector, a small innovative company, a subject of the Skolkovo ecosystem, an industry institute or an organization that realizes a project on governmental support of business development, accepting students for Industrial Immersion.

Industrial Immersion project focuses on a shortterm development of assigned tasks of research, manufacturing or operational problems specified by the host company.

Students solve the project task under supervision of a Skoltech professor or employee appointed to monitor the project.

Results obtained within the project belong to the host Company.

Terms: 8 weeks during summer term Assessment is carried out based on the report and poster





Host company: how to participate in the program

1	Prop
2	Prov offic envi corp
3	Ass proj
4	Dev proj
5	Drav
6	Mor
17	Acc post

pose technically attractive project

vide equipped working places in the company's ce. Project implementation in the company's ironment is important for students exposure to a porate culture

ign an employee of the company to supervise the ject/students

velop a detailed technical task of the proposed ject

w up a work plan with the students

nitor the project progress

ept results, assess report and approve project ter for Industry Day Conference.

Statistics

atistics			Students	dents Companies	Projects	Team Projects	Format		
						Trojecto	online	offline	hybrid
		Data Science	110	37	90	15	73	12	5
		Information Science & Technology							
		Advanced Manufacturing Technologies	16	13	14	1	6	5	3
		Petroleum Engineering	21	11	18	2	9	9	0
		Energy Systems	13	7	8	4	7	0	1
		Materials Science	20	14	18	2	6	7	5
8	Companies — Skolkovo residents	Photonics and Quantum Materials	21	13	17	4	3	13	1
	Companies —	Space and Engineering Systems	26	12	17	7	6	7	4
20	Skoltech startups inclusively	Life Sciences	39	19	36	3	12	4	20
		Всего	266	116	218	38	122	57	39

Skoltech

27%

LARGE COMPANIES



22% STATE 78% PRIVATE



59% RUSSIAN 41% INTERNATIONAL* 8%

MEDIUM-SIZED COMPANIES



00% STATE 100% PRIVATE



60% RUSSIAN 40% INTERNATIONAL* 64%

SMALL COMPANIES & MICRO-ENTITIES

1% STATE 99% PRIVATE



91% RUSSIAN 9% INTERNATIONAL*

* including Russian companies with foreign capital

Companies - program participants in 2021

1.	Academy of Management. Russian Ministry of	29.	Generuim
	the Interior	30.	Genetico
2.	Adoptomedia	31.	Geonom
3.	Arrival Robotics	32.	Geonaft
4.	Art.Lebedev	33.	GeoAlert
5.	Biomimetix	34.	Haut.ai
6.	BostonGene	35.	Head Krake
7.	Boeing	36.	Hevel
8.	Big Three	37.	Huawei
9.	Center for Testing, Certification,	38.	IBM
	Standardization of Functional Materials and Technologies	39.	IN3D
10.	CityAir	40.	Intel
11.	CML	41.	Insilico
	Collins aerospace	42.	InEnergy
	Core Technologies	43.	IPG
	Cryptochemistry	44.	Ira Labs
15.		45.	IT universe
-	Deco Geophysical	46.	К+
17.	Dentistry center Vysshaya Shkola	47.	KAMAZ Inr
18.	Digital Petroleum	48.	Key to Ene
19.	D-Orbit	49.	Kintech
20.	DokaGene. Phytoengineering Research center	50.	LabAdvand
21.	EVRAZ	51.	Lenta
22.	EvoCargo	52.	LyghtJet
23.	Farmadoc	53.	M&S decis
24.	FitPlay	54.	Market Cou
25.	Gazpromneft - Digital Solutions	55.	Milaborato
26.	Gazprom VNIIGAZ	56.	MMK - Info
2 7.	Gazpromneft NTC	57.	Motorica
28.	-	58.	MolTech

Geonali
GeoAlert
Haut.ai
Head Kraken
Hevel
Huawei
IBM
IN3D
Intel
Insilico
InEnergy
IPG
Ira Labs
IT universe
К+
KAMAZ Innovation Center
Key to Energy
Kintech
LabAdvance

- sions
- uncil
- ory
- ormservice

- 59. MRM Proteomics R
- Mehrafarid Sazeh Parsian Co. **60**.
- 61. Nanosemantics Lab
- 62. Native Robotics
- 63. Neurotrend
- Nissan 64.
- 65. Novaprint 3D
- 66. New Spintronic Technologies
- 67. Numerical Engineering platform
- 68. O3-Coatings
- 69. Oz Forensics
- OZNA 70.
- Pertamina Hulu 71.
- 72. Piklema Predictive
- 73. PNPPK
- 74. PrimeBioMed
- 75. Ptt
- RamMics 76.
- 77. Rosneft Bashneft Research Institute
- Rosseti Belgorod 78.
- Russian Quantum Center 79.
- 80. **RT-Climate**
- 81. Rustor
- 82. Samsung
- 83. SberBank
- 84. SberHealth
- 85. SberMarket
- Scontel 86.
- 87. Semantic Hub
- 88. SIMETRA

- 89. Siberian Generating Company
- 90. Sibur PolyLab
- 91. Skolkovo Gymnasium
- 92. SMA
- 93. Smart solutions
- SOKO 94.
- 95. Spark Beyond
- 96. Spektr M
- 97. Stochastic Analysis Lab. HSE
- 98. Syntelly
- 99. TekhnoScan
- 100. Tensor Fields
- 101. Tesart
- 102. TetraQuant
- 103. Tevian
- 104. Tion
- 105. Tirphotonics
- 106. Topaz
- 107. Tsuru Robotics
- 108. Twin3D
- 109. Vector
- 110. VisionLabs
- 111. VNIIneft
- 112. VNIIA Dukhova. Rosatom
- 113. Vyksa metallurgical plant. OMK
- 114. WareVision
- 115. Watts battery
- 116. Yandex

Skoltech

Projects areas

Data Science

machine Learning, Data Analytics, Artificial Intelligence, IoT

Information Science & Technology

Advanced Manufacturing Technologies

Space and Engineering Systems

Photonics and
Quantum Materialslaser technologies, hybrid ph
spectroscopy, nanomaterials

Energy Systems

Petroleum Engineering

Materials Science

bioinformatics,	drug	discovery,	agr
software			

mechanical testing

Projects archives:





2019

2017

2018



cyber-physical systems, additive technologies, composite materials, Industrial robotics, thermal spray and functional coatings,

systems Engineering (+MBSE), the Earth remote sensing image processing, small space devices, robotics, machine learning

laser technologies, hybrid photonic/optoelectronic quantum devices,

smart grids, energy markets, power electronics; power systems modeling and optimization; energy storage and renewable energy; monitoring and control of power systems; microgrids

EOR, drilling geomechanics, mathematical modelling, unconventional and hard to recover hydrocarbons, geophysics, basin modelling, seismic modeling and interpretation, data-driven reservoir characterization, machine learning based resource allocation

materials for electrochemical energy storage

ro biotech, neurotechnologies, medical

Data Science

Information Science & Technology

Students	110
Companies	37
Projects total	90
Team projects	15
Online projects	73
Offline projects	12
Hybrid projects	5

- 1. Academy of Management. Russian **Ministry of the Interior**
- 2. Adoptomedia
- 3. Art.Lebedev
- **Dance School online** 4.
- 5. EVRAZ
- 6. EvoCargo
- 7. FitPlay
- 8. Haut.ai
- 9. Head Kraken
- 10. Huawei
- 11. IN3D
- 12. Intel
- 13. Ira Labs

- 15. Lenta
- **16. MMK-Informservice**
- 17. Motorika
- **18. MRM Proteomics R**
- **19. Nanosemantics Lab**
- **20. Oz Forensics**
- 21. Piklema Predictive
- 22. Samsung
- 23. SberBank
- 24. SberHealth
- 25. SberMarket
- 26. Siberian Generating
 - Company
- **27. SIMETRA**

Industrial Immersion Coordinator Maria Pukalchik

14. KAMAZ Innovation Center 28. SOKO 29. Spark Beyond **30. Stochastic Analysis Lab. HSE 31. Syntelly** 32. Tensor Fields 33. Tesart 34. Tevian 35. Twin3D 36. VisionLabs 37. Yandex



Academy of Management. Russian Ministry of the Interior	3옷	MAdopto Media	Sk resident	28	ART. LEBEDEV	1오
Automatic analysis of publi determination of the sentim and their visualization		Development of an eco evaluating the effective investments			Generating images from a text description	
Skoltech supervisor		Skoltech supervisor			Skoltech supervisor	
Maria Pukalchik	Hybrid	Pavel Osinenko	00	nline	Ivan Oseledets	offline
	Hybrid	Faver Osmenko		lille	Ivall Oseleuels	omme
Dance Skolt School Online	<mark>ech startup</mark> 1 옷	EBPA3		1오	EVOCARCO	1ዶ
Development of algorithms dance training system base		Development of an exp Battery No1.	oert system for Coke Ov	en	Development of a neural network model for determining the lane	
Skoltech supervisor		Skoltech supervisor			Skoltech supervisor	
Andrey Somov	online	Ivan Oseledets	On	line	Maxim Panov	online

nology	
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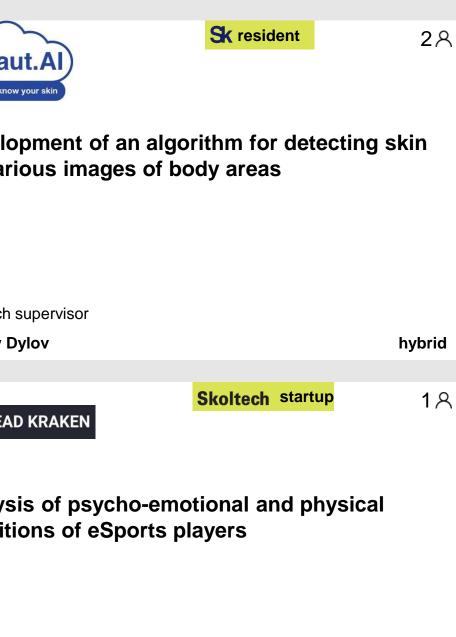




EVOCARGO	1ዶ	FitPlay	18	Нац
Development of a prototype of a system of following cars in a column		Development of AI methods for human pose estimation and physical activity identification conditions of fitness centres		Develo on vari
Skoltech supervisor		Skoltech supervisor		Skoltech s
Maria Pukalchik	online	Maria Pukalchik	online	Dmitry D
Haut.Al We know your skin	2옷	Skoltech startup	2옷	
Development of an algorithm for decomposition of skin images into interpretable component		Al-assistance for Epilepsy detection and segmentation		Analys conditi
Skoltech supervisor		Skoltech supervisor		Skoltech s
Maria Pukalchik	online	Maxim Panov	online	Andrey S







supervisor

Somov

online



HUAWEI	18	HUAWEI	3온	HUAW
Development of a model for estimating the uncertainty of the position and orientation of pedestrians based on signals from inertial sensors	of	Errors in wireless communication systems at their impact on spatial multiplexing in massiv MIMO		Τοροία
Skoltech supervisor		Skoltech supervisor		Skoltech
Gonzalo Ferrer	online	Maria Pukalchik h	nybrid	Alexand
HUAWEI	18	HUAWEI	28	HUAW
High-fidelity portrait segmentation		Development of high throughput parallel decoding algorithms for polar codes		Develo improv Zernik
Skoltech supervisor		Skoltech supervisor		Skoltech
Vladimir Spokoiny	online		online	Andrzej

18



logical Data Analysis for NL

ch supervisor

nder Bernstein

online

18



lopment of algorithms for simulation and ovement of the optical system based on ike polynomials

h supervisor

ej Cichocki

offline

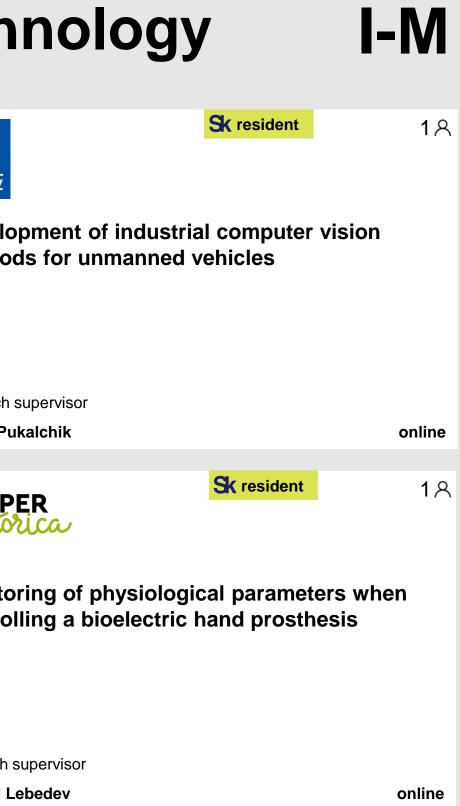


WARKEN Analysis and construction of the 3D mesh segmentation network algorithm	18	IDAWEI Shelf estimation in soft decoding of spatial related codes like Staircase and oFEC	1 A	Adver proble
Skoltech supervisor Evgeny Burnaev	online	Skoltech supervisor Alexey Frolov	online	Skoltech Alexey
N	18	intel	18	O IR
Development of tissue simulation algorithm using neural networks	S	Development of new tools and hybridization GPU application in HPC	n of	Auton medic
Skoltech supervisor		Skoltech supervisor		Skoltech
Ivan Oseledets	online	Sergey Rykovanov	online	Mikhail



		1옷
VEI		
rsarial attacks fo ems	or machine translation	
h supervisor		
Zaytsev		offline
	Skoltech startup	2 8
RA LABS	Skolleen startap	20
natic body comp cal image segme	osition analysis using ntation	I
h supervisor		
Belyaev		online
	Skol	tock
	JKUI	LEUI

Skoltech startup	18	IRA LABS	<mark>ikoltech</mark> startup	28	KAMAZ
Active learning in the problem of analyzing I samples of medical images	arge	Development of a meth pathologies of great ve analysis of medical ima	ssels based on autom	atic	Devel metho
Skoltech supervisor		Skoltech supervisor			Skoltech
Maxim Panov	online	Mikhail Belyaev	C	online	Maria P
Selenta	1옷	ММК- ИНФОРМСЕРВИС ММК- INFORMSERVICE		18	SUR
Development of an analytical predictive mod for predicting incoming traffic to retail stores and organizing the work of the checkout line without queues	s	Forecasting the prices of basis of FOB Black Sea		he	Monito contro
Skoltech supervisor		Skoltech supervisor			Skoltech





Skoltech startup MRM Proteomics R	2옷	Nanosemantics	18	
Blood biomarkers assessment by highly multiplexed proteomics mass spectrometry based quantitative tests for precision medie		Multilingual speech synthesis with preserva of natural language accent	ition	Devel incom speed opera deep
Skoltech supervisor		Skoltech supervisor		Skoltech
Ivan Oseledets, Christoph Borchers	offline	Ivan Oseledets	online	Maxim
Nanosemantics	3A	Nanosemantics	18	R Na
Development of algorithms for identity verification by voice		Development of algorithms for determining gender, age and emotions by voice		Devel chatb
Skoltech supervisor		Skoltech supervisor		Skoltech
Nikolay Brilliantov, Ivan Oseledets, Sergey Rykovanov	online	Alexey Vishnyakov	online	Mikhail





18

Sk resident

lopment of a module for filtering an ning audio stream containing human ch from background noises affecting the ation of keyword spotting models using learning

h supervisor Fedorov online Sk resident 38 anosemantics

opment of algorithms for generating ot responses using neural networks





Oz Forensics	18	Piklema Predictive	ج البرار Pi Pr
Development of an algorithm that makes it possible to increase the efficiency of biome identification by using a variety of face ima in the video sequence	etric	Digital driver advisor to optimize your driving style	Developi optimize
Skoltech supervisor		Skoltech supervisor	Skoltech sup
Maria Pukalchik	online	Pavel Osinenko onlin	e Dmitry Yard
SAMSUNG	28	1/ SAMSUNG	SVWSI
Improving sound quality with reduced bandwidth using deep generative models		Neural image-based rendering without test-time optimization	High reserved reenactm
Skoltech supervisor		Skoltech supervisor	Skoltech sup
Evgeny Burnaev, Maria Pukalchik	online	Maria Pukalchik onlin	e Victor Lemp



O-S

Piklema Predictive	Sk resident	2유
elopment of decision nize driving style	support sy	stem to
ch supervisor		
y Yarotsky, Andrey Somov		online
NSUNG		1ዶ
resolution video svr	nthesis for	sinale image

resolution video synthesis for single image actment

ch supervisor

Lempitsky

online



1ዶ Samsung	1A Samsung	1ዶ Samsung
Improving quality and efficiency of diffusion denoising probabilistic models	Integration of a full-body avatar generating model into an Android AR application	Personalized portrait editing
Skoltech supervisor Vladimir Spokoiny online	Skoltech supervisor Victor Lempitsky online	Skoltech supervisor Victor Lempitsky online
1A Samsung	1A Samsung	1A Samsung
Development of a training method for the depth of completion of models on mixtures of datasets	Camera pose confidence estimation for visual localization task	Training Discrete Hidden Variable Models
Skoltech supervisor	Skoltech supervisor	Skoltech supervisor
Victor Lempitsky online	Dmitry Dylov online	Vladimir Spokoiny online



SAMSUNG	18	SAMSUNG	18	SAM
Creation of photorealistic avatars using 3D neural network methods		Development of interactive segmentation models		StyleG synthe
Skoltech supervisor Dmitry Dylov	online	Skoltech supervisor Victor Lempitsky	online	Skoltech Pavel Os
SBER BANK	18	SBER BANK	18	⊖ SBE
Uncertainty estimation for reliable and accountable medical diagnostics via Transformer-based text classification mode	ls	Aggregation of heterogeneous data in deep learning models		Methoo networ
Skoltech supervisor		Skoltech supervisor		Skoltech
Alexander Panchenko	online	Alexey Zaytsev	online	Alexey Z

S

ASUNG	1오
GAN distillation for feed-forward vide	€O
h supervisor Osinenko	online
ERBANK	18
ods for extraction of communities in orks based on clustering and link pre	
h supervisor	

Zaytsev

online



1 옷 SBER BANK	18	⊘ SBE
Vehicle motion prediction, data-driven approach Visual SLAM algorithm using semantic information in wheeled robots	с	Data e compu
Skoltech supervisor Skoltech supervisor		Skoltech
Gonzalo Ferrer online Gonzalo Ferrer	online	Maria Pu
1.0	4.0	
1 옷 ⓒ SBER BANK ⓒ SBER BANK	1오	🕝 SBE
Medern enpression to eccessing the consitivity Dedectrion motion prediction date dri	Von	Embod
Modern approaches to assessing the sensitivity Pedestrian motion prediction, data-drive of demand based on uplift models and neural approach networks approaches	ven	Embed
Skoltech supervisor Skoltech supervisor		Skoltech
Alexey Zaytsev online Gonzalo Ferrer	online	Alexey Z

S

SER BANK	1ዶ
engineering for signals for legacy l outer interface	human
ch supervisor	
Pukalchik	offline
ER BANK	1옷
eddings of categorical features for I	RNNs
h supervisor	

Zaytsev

online



1 옷 Sber bank	СБЕР ЗДОРОВЬЕ SBER HEALTH	<mark>СБЕР</mark> SBER
Analysis of credit risk leading indicators based on transaction embeddings	Recognition of the voice command of the recording to the doctor in the audio files of the call center	Develo custor
Skoltech supervisor	Skoltech supervisor	Skoltech
Alexey Zaytsev online	Andrey Somov online	Andrey S
СБЕР МАРКЕТ SBER MARKET	1 А Sber Market	SIM BADABATE KPA
Development of ML classification of customers by demographic features and purchase history	Forecasting the number of service orders	Enrich based (geore
Skoltech supervisor	Skoltech supervisor	Skoltech
Dmitry Yudin offline	Vladimir Spokoiny online	Vladimir

R MARKET	1ዶ
lopment of methods for predicting omer churn	
ch supervisor	
y Somov	online
I = TRA КРАСОТУ ДВИЖЕНИЯ	1ዶ
hment of transport network graph data d on satellite images and / or DVR data referenced video)	
h supervisor	
ir Palyulin	online



Сибирская генерирующая компания Сотрану	18	Skoltech Skolkovo Institute of Science and Technology	18	Skolkovo Institute of
Development of a service for standardization FIAS address records	on of	Data-driven parameters estimation for decentralized finance		Using investi materia simula
Skoltech supervisor		Skoltech supervisor		Skoltech
Maria Pukalchik	online	Maria Pukalchik	online	Maria Pu
	18		18	01
Skoltech Skolkavo Institute of Science and Technology		Skoltech Skolkovo Institute of Science and Technology		Skolkovo Institute of
Development of methods for assessing inhomogeneities		Artistic molecular structure visualization		Artistic
Skoltech supervisor		Skoltech supervisor		Skoltech
Ivan Oseledets	online	Petr Popov	online	Maria Pu

oltech of Science and Techno

g machine learning for design and tigation of a multi-layered absorbing rial with tunable parameters for FDTD

ch supervisor

Pukalchik

online

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ic molecular structure visualization

h supervisor

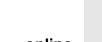
Pukalchik

online









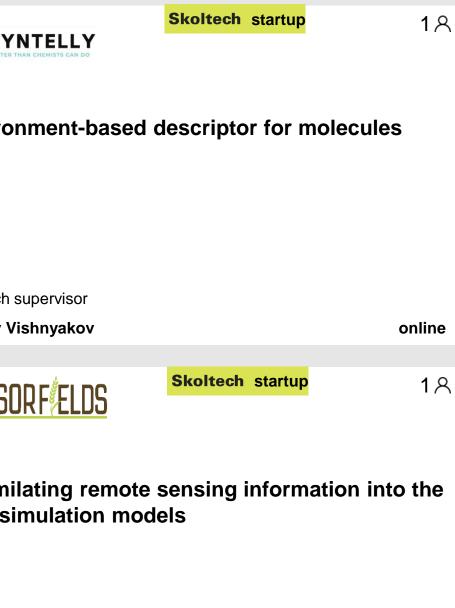
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18

SÖKO	3옷	SPARK E BEYOND	18	S S
Development of AI system for detecting phenotypic stages of plant		Time Series and Sequence Pattern Analysi Insights	s and	Envir
Skoltech supervisor Maria Pukalchik	hybrid	Skoltech supervisor Maria Pukalchik	online	Skoltech Alexey
			••••••	,,
TENSORF ELDS Skoltech startup	1오	TENSORF ELDS Skoltech startup	18	<u>tens</u>
Applying Mask-R-CNN and RetinaNet Deep Learning Models to Recognize and Predict Decay		Application of deep learning models to recognize individual signs of growth and development of apple trees		Assim crop s
Skoltech supervisor		Skoltech supervisor		Skoltech
Alexey Frolov	online	Andrey Somov	online	Ivan Os



S-T



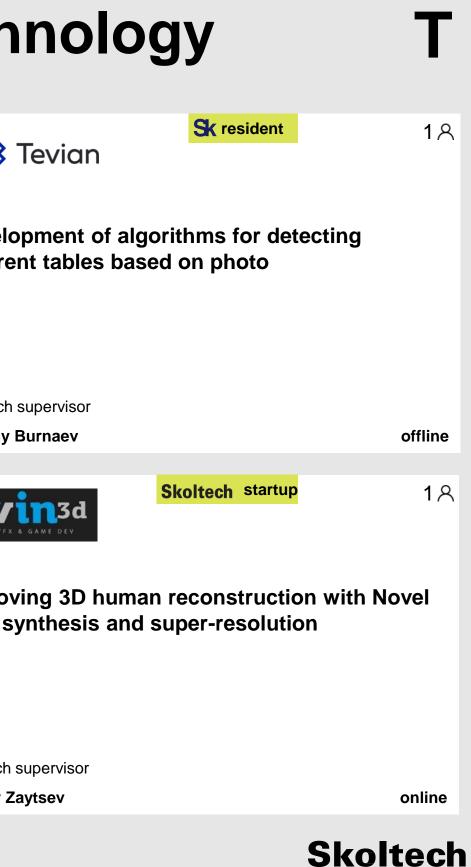
h supervisor

seledets

online



TECAPT TESART	18	Tevian	Sk resident	18	
Signal generation and processing narrowband IoT systems	for	Development of alg documents by pho	gorithms for detecti to and video	ing fake	Develo differe
Skoltech supervisor		Skoltech supervisor			Skoltech
Dmitry Lakontsev	offline	Alexey Zaytsev		offline	Evgeny I
					0,
FOR VFX & GAME DEV	<mark>ゆ</mark> 1 名	FOR VEX & GAME DEV	Skoltech startup	1 A	FOR VEX
Few-shot photorealistic 3D face re	construction	Development of IoT DSLR cameras	Γ PCB for shooting	triggers of	Improv view sy
Skoltech supervisor		Skoltech supervisor			Skoltech
Maria Pukalchik	online	Dmitry Yudin		online	Alexey Z
		-			-



STORATOR SALESA	1오	VisionLabs	1A	Yar
Variance reduction in Monte Carlo and Marke Chain Monte Carlo algorithms with application		One shot liveness detection alg improvement on replay testset	orithm	Depth Regist
				Chalteeb
Skoltech supervisor		Skoltech supervisor		Skoltech
Vladimir Spokoiny	online	Ivan Oseledets	online	Maxim F
Yandex	1오	Yandex	1A	Yar
Development of methods and approaches to segmentation of the lidar cloud and lidar point of the lidar cloud and lidar point.		Computer vision to automate th HD maps for a drone	e production of	Develo metho
Skoltech supervisor		Skoltech supervisor		Skoltech
	offline	Dmitry Dylov	hybrid	Maria Pu

U-Z

18

Index

h Inpainting: Dynamic Objects' Point Cloud stration

ch supervisor

Panov

offline

ndex

18

elopment of conversion and semantic search nods

ch supervisor

Pukalchik

offline



Advanced Manufacturing **Technologies**

Students	16
Companies	13
Projects total	14
Team projects	1
Online projects	6
Offline projects	5
Hybrid projects	3

- 2. Boeing
- 3. BIG Three
- 4. Center for Testing, Certification, Standardization of **Functional Materials and Technologies**
- 5. CML
- 6. Collins Aerospace
- 7. Gazpromneft Digital Solutions
- 8. IPG
- 9. Numerical Engineering platform
- 10. O3-Coatings

Industrial Immersion Coordinator **Dmitry Krasovsky**

11. Rosneft - Bashneft **Research Institute** 12. Sibur PolyLab 13. Vyksa metallurgical plant. OMK



Advanced Manufacturing Technologies

λγγινλι	1오	DEING	1오	В БОЛЫ
Development of an automated system for selecting the manipulator grip applicable particular part		Machine Learning for Flat Plate Buckling Prediction		Analysis for the cr of solid v
Skoltech supervisor		Skoltech supervisor		Skoltech sup
Ighor Uzhinsky	online	Sergey Abaimov	offline	Ighor Uzhin
	3온		18	
Center for Testing, Certification, Standardization of Functional Materials and Technologies	3	Engineering		Colline Collin
Analysis of thermoplastic pultrusion con	nposites	FE analysis of dynamic processes (NVH, strength) in an electric truck chassis parts		Optimizat obtained
Skoltech supervisor		Skoltech supervisor		Skoltech sup
Alexander Safonov	offline	Ighor Uzhinsky	online	Sergey Abai





18

БОЛЬШАЯ		UN lesident	18
БОЛБШАЯ ТРОЙКА	BIG Three		
ysis of	garbage co	ntainer occ	upancy data
ne creat	tion of elect	tronic servi	ces in the field
olid was	te managei	ment	
	to managoi		
ch supervis	sor		
Uzhinsky			offline

Sc resident

Collins Aerospace 18

nization of the machining process for the ned geometric features

h supervisor

Abaimov

hybrid



Advanced Manufacturing Technologies

Image: Construction ЦИФРОВЫЕ Gazpromneft 1 A PEШЕНИЯ Digital Solutions 1 A	1A IRE-Polus	Numer Engine Platfor
Evaluation of the prospects for the practical application of 3D printing of ceramic products in the framework of the programs for the development of new materials of Gazpromneft	Laser treatment of coatings obtained by Cold Gas-Dynamic Sputtering	Nume with o
Skoltech supervisor	Skoltech supervisor	Skoltech
Igor Shishkovsky hybrid	Dmitriy Dzhurinskiy offline	Aslan K
Numerical Sk resident 1 오 Engineering Platform	Sk resident 1名	
Analysis of one model of hyperbolic systems on the basis of dynamic mode decomposition	Study of electrochemical properties of protective coating materials, including analysis of industry standards API-571, NACE MR0175	Machi detern studie modes
Skoltech supervisor	Skoltech supervisor	Skoltech
Aslan Kasimov online	Dmitriy Dzhurinskiy online	Sergey /



G-R

18

rical ering rm

rical calculation of detonation in a channel obstacles

Sk resident

supervisor

lasimov

offline

Инефть ROSNEFT **Bashneft Research** Institute

18

ine learning algorithm for automatic mination of the number of modes for es at steady-state production / injection S

supervisor

Abaimov

online



Advanced Manufacturing Technologies

SIBUR PolyLAB	1오	омк выксунский металлургический завод OMK - metallurgical plant Vyksa	1오
Designing injection molds for recycled materi	als	Development of an algorithm for detecting microstructure boundaries	
Skoltech supervisor Igor Shishkovsky hy	ybrid	Skoltech supervisor Ighor Uzhinsky	online





Skoltech

Petroleum Engineering

Students	21
Companies	11
Projects total	18
Team projects	2
Online projects	9
Offline projects	9

- 1. Deco Geophysical
- 2. Digital Petroleum
- 3. Gazprom VNIIGAZ
- 4. Gazpromneft NTC
- 5. Gazpromneft **Technological Partnerships**
- 6. Geonaft
- 7. LabAdvance

Industrial Immersion Coordinator Natalia Kiani

- 8. **OZNA**
- 9. Pertamina Hulu Indonesia
- 10. SMA
- 11. VNIIneft



Petroleum Engineering

DEGO	18	Digital Petroleum	I A	Digit Petr
Development of geological models building techniques based on seismoacoustic surve data	-	Hydrocarbon reserves mapping based on material balance models of reservoir		Petrop with he wells.
Skoltech supervisor		Skoltech supervisor		Skoltech s
Dmitry Pissarenko	online	Dmitry Koroteev onl	ine	Dmitry K
GAZPROM	18	GAZPROM SCIENCE & TECHNOLOGY CENTER	3A	GAZPROM
Development of a numerical model of hydra deposition in wells producing gas from low temperature fields		Analysis of the applicability of the VOI methodology for assessing the conduct of well logging and laboratory studies of the core		Mathen proces bringin
Skoltech supervisor		Skoltech supervisor		Skoltech s
Vladimir Istomin	online	Dmitry Koroteev, Mikhail Spasennykh, Yuri Popov onli	ine	Andrey O

A-G

28

Skoltech startup

gital troleum

physical property estimation in target well help of Kriging and data from neighboring

h supervisor

Koroteev, Alexey Tchistiakov

online

18

SCIENCE & TECHNOLOGY CENTER

ematical modeling of multiphase flow in the ess of cleaning of a hydraulic fracture and ing the well into operation

n supervisor

Osiptsov

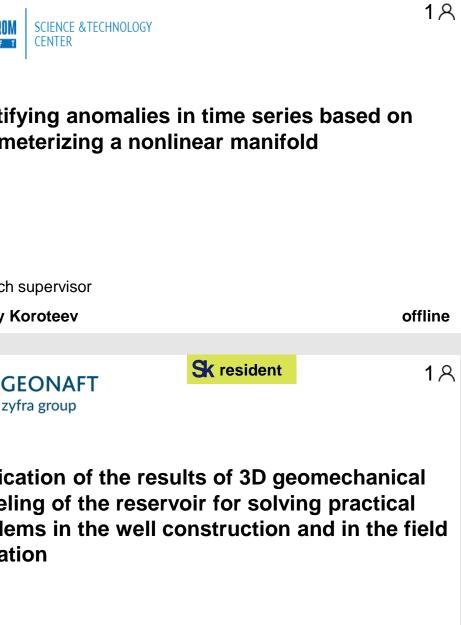
offline



Petroleum Engineering

GAZPROM SCIENCE & TECHNOLOGY CENTER	1ዶ	GAZPROM SCIENCE & TECHNOLOGY CENTER	1 ዶ	GAZPRO
EOR agent selection based on 3D digital core model	e	Spectral decomposition of the wave field		Identi paran
Skoltech supervisor		Skoltech supervisor		Skoltec
	online	Sergey Stanchits	offline	Dmitry
GAZPROM SCIENCE & TECHNOLOGY CENTER	1오	CAZPROM TECHNOLOGICAL PARTNERSHIPS	1 옷	
Interpretability of geological relationships wi fluid flow simulation of semi-synthetic field o		Rheological properties of alternative fractu fluids	ring	Applie mode proble opera
Skoltech supervisor		Skoltech supervisor		Skoltech
Alexey Cheremisin	offline	Andrey Osiptsov	online	Alexey

G-K



ch supervisor

Tchistiakov

offline



Petroleum Engineering

LABADVANCE Petroleum Service Provider	1오	1. ⁹ OZNO	
Experimental studies using microfluidic technology		Production testing of the wells with Mobile test separator "Massomer" located on truck	Carbor Bekapa Indone
Skoltech supervisor		Skoltech supervisor	Skoltech s
Alexey Cheremisin	offline	Andrey Osiptsov offline	e Alexey To
			,
.::SMA	1오		
Sample preparation of geological samples microtomography and electron microscop		Study of the relationship between leaching zones and sequence-stratigraphic surfaces in carbonate reservoirs	Influen on the cement
Skoltech supervisor		Skoltech supervisor	Skoltech s
Alexey Cheremisin	offline	Alexey Tchistiakov online	Alexey To

L-Z

18

ERTAMINA ULU INDONESIA

onate Reservoir Characterization in the pai Field, Mahakam Delta, Kutai Basin, nesia

h supervisor

Tchistiakov

offline

WINHEOTH VNIIneft

ence of sequence-stratigraphic boundaries e distribution of zones of diagenetic ntation in carbonate reservoirs

n supervisor

Tchistiakov

online



18

Energy Systems

Students	13
Companies	7
Projects total	8
Team projects	4
Online projects	7
Hybrid projects	1

1.	Key to Energy	4.	Rosseti Belg
2.	Market Council	5.	Tion
3.	Mehrafarid Sazeh Parsian	6.	Topaz

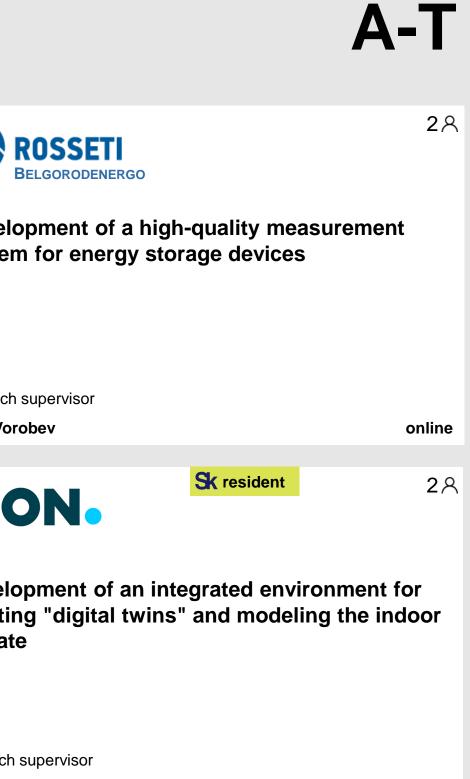
Industrial Immersion Coordinator Ekaterina Guseva gorod

7. Watts battery



Energy Systems

Long-Term Scenario for the Russian / Italian Energy Marketthe national power grid through PowerFactory softwaresystemSkoltech supervisor David PozoSkoltech supervisor Petr VorobevSkoltech supervisor Petr VorobevSkoltech Petr VorobevSkoltech Petr VorobevImage: Station NP MARKET COUNCIL2A NP MARKET COUNCILImage: Station needed NP MARKET COUNCILImage: Station needed Station needed Station needed Skoltech supervisorImage: Station needed Station needed NP MARKET COUNCILImage: Station needed NP MARKET COUNCILImage: Station needed NP MARKET COUNCILImage: Station needed Station needed Station needed Station needed Station needed Skoltech supervisorImage: Station needed Station needed Skoltech supervisorImage: Station needed Skoltech supervisorImage: Station needed Skoltech supervisorImage: Station needed Skoltech supervisorImage: Station needed Skoltech supervisorImage: Skoltech supervisorImage:	KE KEY TO ENERGY	18	Mehrafarid Sazeh Parsian Co.	18	
David PozoonlinePetr VorobevonlinePetr VorobevImage: Construction on NP MARKET COUNCILImage: Construction	Long-Term Scenario for the Russian / Italia		the national power grid through PowerFact		Deve syste
David PozoonlinePetr VorobevonlinePetr VorobevImage: Development of the principle (algorithm) for the formation of a multi-zone maintenance rate as part of the tariff for services for the transmission of electricity through the networks of territorial grid organizationsDevelopment of an algorithm (methodology) for generating a price signal for a power transmission service (rate for maintenance and technological consumption - power losses) for a consumer or a group of consumers, depending on the flow of electricity in the supply network infrastructureDevelopment of a consumer or a service (rate for maintenance and technological consumption - power losses) for a consumer or a service (rate for maintenance and technological 	Skoltech supervisor		Skoltech supervisor		Skoltec
Image: A sociation NP MARKET COUNCILImage: A sociation NP MARKET COUNCILImage: A sociation NP MARKET COUNCILImage: A sociation NP MARKET COUNCILImage: A sociation NP MARKET COUNCILDevelopment of the principle (algorithm) for the formation of a multi-zone maintenance rate as part of the tariff for services for the transmission of electricity through the networks of territorial grid organizationsDevelopment of an algorithm (methodology) for generating a price signal for a power transmission service (rate for maintenance and technological consumption - power losses) for a consumer or a group of consumers, depending on the flow of electricity in the supply network infrastructureDevelopment of a social transmission service (rate for maintenance and technological consumption - power losses) for a consumer or a group of consumers, depending on the flow of electricity in the supply network infrastructureDevelopment skoltechSkoltech supervisorSkoltech	David Pozo	online		online	Petr Vo
Image: A sociation NP MARKET COUNCILImage: A sociation NP MARKET COUNCILImage: A sociation NP MARKET COUNCILImage: A sociation NP MARKET COUNCILImage: A sociation NP MARKET COUNCILDevelopment of the principle (algorithm) for the formation of a multi-zone maintenance rate as part of the tariff for services for the transmission of electricity through the networks of territorial grid organizationsDevelopment of an algorithm (methodology) for generating a price signal for a power transmission service (rate for maintenance and technological consumption - power losses) for a consumer or a group of consumers, depending on the flow of electricity in the supply network infrastructureDevelopment of a social transmission service (rate for maintenance and technological consumption - power losses) for a consumer or a group of consumers, depending on the flow of electricity in the supply network infrastructureDevelopment skoltechSkoltech supervisorSkoltech					
formation of a multi-zone maintenance rate as part of the tariff for services for the transmission of electricity through the networks of territorial grid organizationsgenerating a price signal for a power transmission service (rate for maintenance and technological consumption - power losses) for a consumer or a group of consumers, depending on the flow of electricity in the supply network infrastructurecreati climationSkoltech supervisorSkoltech supervisorSkoltech supervisorSkoltech supervisorSkoltech supervisor	association NPMARKET COUNCIL	28	association NPMARKET COUNCIL	1오	TI
	formation of a multi-zone maintenance rate part of the tariff for services for the transm of electricity through the networks of territ	e as hission	generating a price signal for a power transmiss service (rate for maintenance and technologica consumption - power losses) for a consumer of group of consumers, depending on the flow of	sion al or a	creat
David Pozo online David Pozo online Henni C	Skoltech supervisor		Skoltech supervisor		Skoltec
	David Pozo	online	David Pozo	online	Henni (



Ouerdane

online



Energy Systems

Sk resident TOPAZ	1오	WATT -	3오
Optimizing New Methods for Efficient Electrochemical Energy Storage		Design and implementation of a m for MPPT solar panel controllers	odular system
Skoltech supervisor		Skoltech supervisor	
Henni Ouerdane	online	Federico Ibanez	hybrid

T-Z

Skoltech

Materials Science

20
14
18
2
6
7
5

1. Biomimetix6. InEnergy2. CityAir7. K+3. Core Technologies8. Kintech4. Cryptochemistry9. Nissan5. Hevel10. Novaprint 3D

Industrial Immersion Coordinator Ekaterina Guseva 11. Ptt

12. Rustor

13. TetraQuant

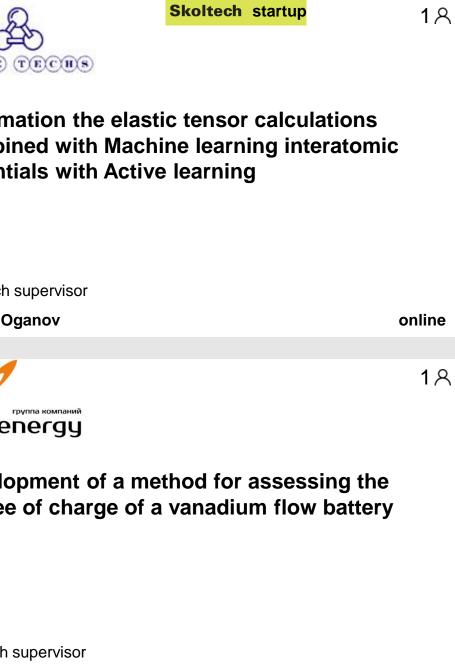
14. Vector



Materials Science

BIOMIMETIX Materials. Naturally	1ጸ	Sk resident	18	CORE
Study of the features of self-healing proce in hydrogels based on polyvinyl alcohol	esses	Development of sensor systems for select monitoring of gas environments	ive	Autom combin potent
Skoltech supervisor		Skoltech supervisor		Skoltech
Alexey Salimon	hybrid	Fedor Fedorov	offline	Artem Og
CORE TECHS	18		18	ine
Replication of Crystal GAN for supercond hydrides	lucting	Fabrication and characterization of perovskite/silicon tandem solar cells		Develo degree
Skoltech supervisor		Skoltech supervisor		Skoltech
Artem Oganov	online	Aleksandra Boldyreva	offline	Victoria N







offline



Materials Science



Skoltech supervisor

NISSAN

MOTOR CORPORATION

Skoltech supervisor

Stanislav Fedotov

Sergey Ryazantsev, Stanislav Fedotov

Skoltech startup

28



Fabrication of electrodes based on hard carbon and their characterization by Raman spectroscopy. Synthesis of high-voltage cathode material KVPO4F and characterization of its electrochemical properties

rbon thode	Calculation of defect	t properties in metal oxides	Fine-tuni the codin
hybrid	Skoltech supervisor Sergey Levchenko	hybrid	Skoltech sup Dmitry Kras
18	NISSAN MOTOR CORPORATION	1 A	NovaPrint
	Analysis of promisin	g thermoelectric materials	Critical a

for efficient conversion of thermal energy using

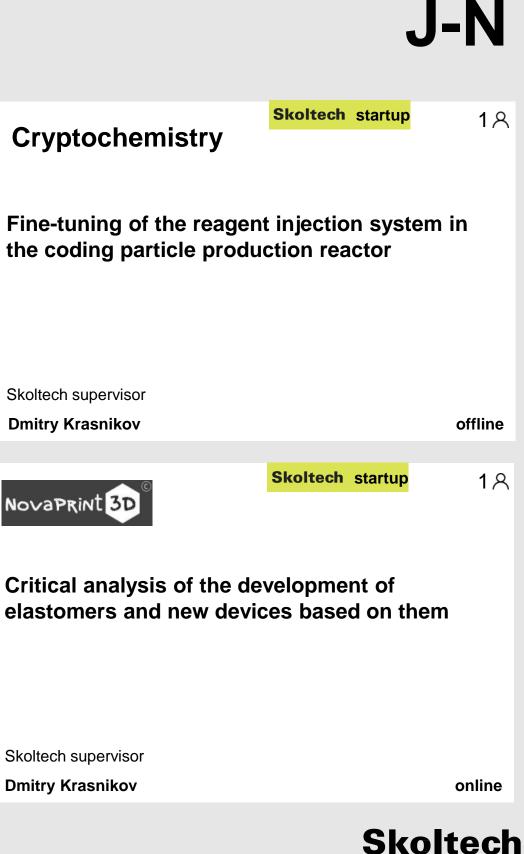
18

Finding ways to improve low-temperature lithium-ion batteries for use in electric cars

 Skoltech supervisor
 Sl

 Online
 Andriy Zhugayevych
 Online

the magnetocaloric effect



Materials Science

Petroleum Authority of Thailand	RUSTOR Skoltech startup 2유	
Multiwall carbon nanotubes – a novel material for applications	Development of a method for obtaining gas-tight membranes based on LLZO as an electrolyte in solid-state lithium-ion batteries. Computer simulation of charge transfer via the Li / LI interface	Development of synthesis of cat transition metal
Skoltech supervisor	Skoltech supervisor	Skoltech supervisor
Dmitry Krasnikov offline	Alexandra Savina, Dmitry Aksenov hybrid	Alexandra Savina
Skoltech startup 1名	TetraQuant Skoltech startup 1유	BEKTOP State Research Center of Virolo and Biotechnology VECTOR
Review of Lithium Conducting Solid State Electrolytes: Approaches for Thin, Hybrid and Safe Materials	Development of the methods for Au nanoparticle production in the reactor CR-1B	Cortisol biosens carbon nanotub
Skoltech supervisor	Skoltech supervisor	Skoltech supervisor
Mariam Pogosova online	Dmitry Gorin offline	Fedor Fedorov

Skoltech startup

lopment of a hydrothermal method for the nesis of cathode materials based on layered ition metal oxides

supervisor		
lra Savina		

earch Center of Virology chnology VECTOR

sol biosensor based on semiconductor on nanotubes

offline





18

18

hybrid

Photonics and Quantum Materials

Students	21
Companies	13
Projects total	17
Team projects	4
Online projects	3
Offline projects	13
Hybrid projects	1

- 1. Cryptochemistry
- 2. Dentistry center Vysshaya Shkola
- 3. IBM
- 4. Novaprint 3D
- 5. New Spintronic Technologies

- 6. PNPPK
- 7. RamMics
- 8. RQC
- 9. Scontel
- 10. Spektr-M
- 11. TekhnoScan

Industrial Immersion Coordinator Dmitry Krasnikov 12. Tirfotonics
 13. VNIIA Dukhova. Rosatom



Photonics and Quantum Materials

центр стоматологии ВЫСШАЯ ШКОЛА Vysshaya Shkola	18	IBN	1 /	Cryp
Development of methods for mathematical processing of medical images with the calculation of physical and mechanical characteristics of biological tissues		Switching time and band polariton gates	lwidth of organic	Segme device
Skoltech supervisor		Skoltech supervisor		Skoltech
Sergey Rykovanov	online	Pavlos Lagoudakis	onlin	
		5		
NovaPrint 30 [©]	1오	New Spintronic Technologies	Sk resident 1 /	
Verification of the protocol for assessing th smell of food polymers	e	Computer simulation of a element at the position o		Optimi structi
Skoltech supervisor		Skoltech supervisor		Skoltech
Fedor Fedorov	offline	Dmitry Krasnikov	offline	e Dmitry K



18

ptochemistry

ch supervisor

Krasnikov

online



18

nization of the radiating semiconductor sture of the near-infrared range

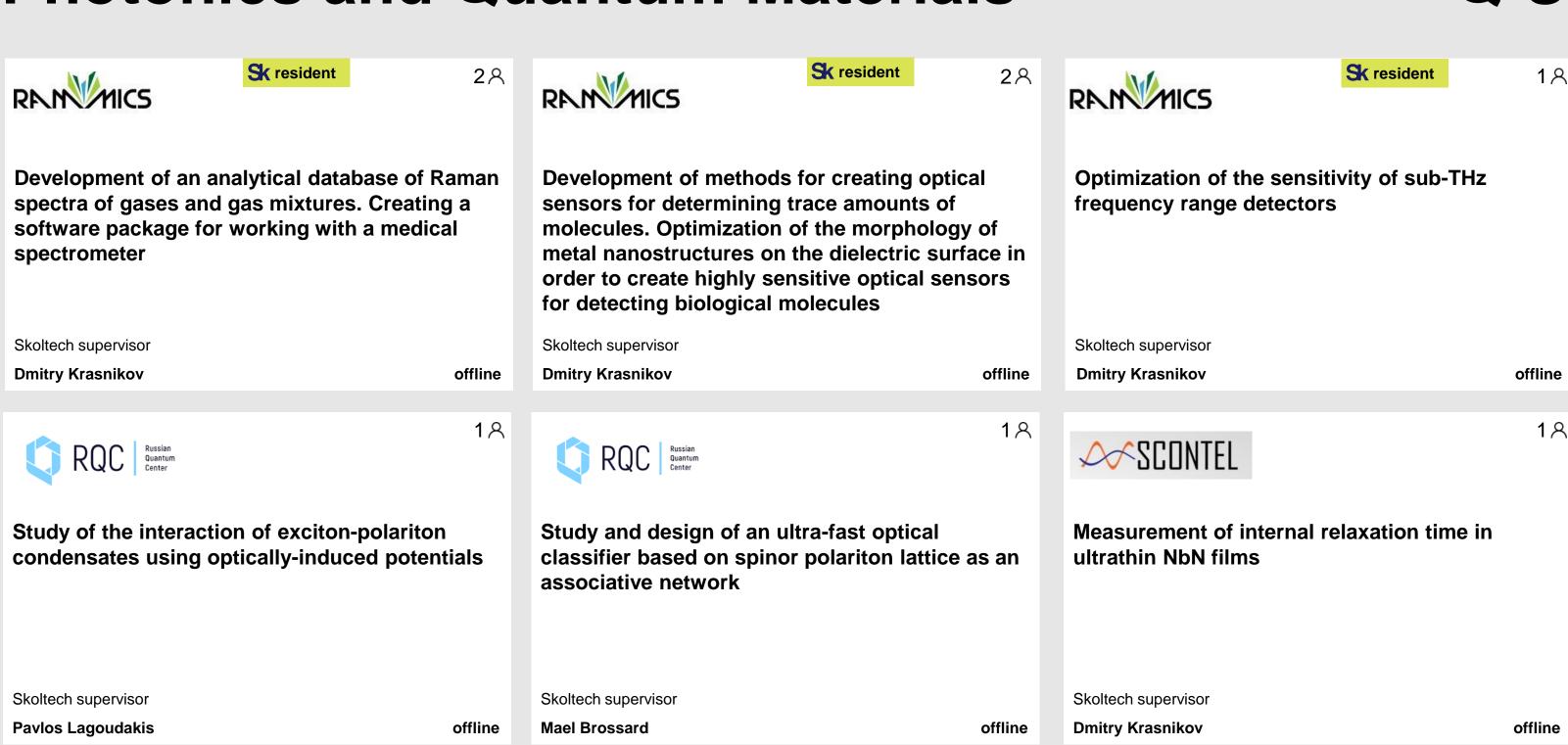
ch supervisor

Krasnikov

hybrid



Photonics and Quantum Materials





Photonics and Quantum Materials

CREKTPAM EnSpectr	18	TekhnoScan	18	тинфо TIRPHC
Development of an analytical database of R spectra of gases and gas mixtures	aman	Development of elements of femtosecond to lasers elements	fiber	Deve photo
Skoltech supervisor		Skoltech supervisor		Skoltec
Dmitry Krasnikov	offline	Yuriy Gladush	offline	Dmitry
К resident	18		28	
TIRPHOTONICS		ROSATOM		
Investigation of thermooptic properties of photonic integrated devices made of silicon nitride		Development of a measuring complex for quantum electronics elements in ultra-low temperatures		
Skoltech supervisor		Skoltech supervisor		
Dmitry Krasnikov	offline	Dmitry Krasnikov	offline	

S-Z





28

elopment of ultrafast graphene-based odetectors

ch supervisor

Krasnikov

offline



Space and Engineering Systems

Students	26
Companies	12
Projects total	17
Team projects	7
Online projects	6
Offline projects	7
Hybrid projects	4

- 1. Art.Lebedev2. Boing3. D-Orbit4. EvoCargo
 - 5. GeoAlert

- 6. LyghtJet
- 7. Native Robotics
- 8. Smart Solutions
- 9. RT-Climate
- 10. SOKO

Industrial Immersion Coordinator Anastasia Ilina 11. Tsuru Robotics12. WareVision

tics ions



Space and Engineering Systems

ART. LEBEDEV	1ዶ	BOEING		18	
Creation of algorithms for generating image from a text description	es	3D Variation Analysis	auto-report project		Syste (OOS) intern obser
Skoltech supervisor		Skoltech supervisor			Skoltech
Evgeny Burnaev	offline	Tatiana Podladchikova		offline	Alessa
	1오	GeoÂlert	Skoltech startup	18	Lyg
Development of algorithms for controlling to angular position of the platform of an unmany vehicle with air suspension		Conducting numerica new deep machine le	al experiments to deve arning models	elop	Desig Iandin
Skoltech supervisor		Skoltech supervisor			Skoltech
Dzmitry Tsetserukou	offline	Vladimir Ignatiev		offline	Anton Iv

A-L

28



em architecture study of on-orbit servicing b) Infrastructure. Satellite constellations for net of things connectivity for Earth rvation

ſ	sup	ervisor	
n	dro	Golkar	

online

18

ght Jet

ning Vtol aircraft (vertical take-off and ng) powered by fuel cell

n supervisor

vanov

hybrid



Space and Engineering Systems

Native Robotics	28	Smart Solutions Multi-Agent Technology for Resource Management	18	
opment of a computer vision system mining the pose of parts	n for	CubeSat Attitude and Orbit Control Flight Software Verification and Validation		Desigr techno spaced
h supervisor		Skoltech supervisor		Skoltech
/ Tsetserukou	offline	Anton Ivanov	hybrid	Anton Iv
RT-CLIMATE	1오	Skoltech Skolkovo Institute of Science and Technology	1오	sc
se of a 3D-printed heat exchanger fo purposes in thermal installations fo al economic purposes		Development of an algorithm for predictin speed solar wind fluxes and geomagnetic activity based on coronal holes in the Sun		Develo Machir Purpos
n supervisor		Skoltech supervisor		Skoltech
Mullin	online	Tatiana Podladchikova	online	Anton Iva

M-S

38



gn of intelligent control systems and nologies for constellations of small ecraft (SSC)

ch supervisor

Ivanov

online



28

Iopment of Integrated Robotic Systems and nine Learning Approaches for Agricultural oses

h supervisor

lvanov

hybrid



Space and Engineering Systems

Skoltech startup Tsuru Robotics Development of a system for generating and conducting light shows of drones	2A	Skoltech startup 1 A Development and testing of a control system for a group of UAVs aimed at exploration purposes	Creati
Skoltech supervisor Dzmitry Tsetserukou	online	Skoltech supervisor Dzmitry Tsetserukou hybrid	Skoltech Dzmitry
Skoltech startup	28	Skoltech startup 18	
Development of a prototype of a robot for the delivery of small-sized cargo	ie	Development of the two-wheeled mobile platform for plant disease detection. Specific tasks: development of localization and navigation algorithms for autonomous work indoor and outdoor	
Skoltech supervisor		Skoltech supervisor	
Dzmitry Tsetserukou	offline	Dzmitry Tsetserukou online	

Q-Z

Skoltech startup

38



ation of the SLAM algorithm for a delivery of for work in street and city conditions

ch supervisor

try Tsetserukou

offline



Students	39
Companies	19
Projects total	36
Team projects	3
Online projects	12
Offline projects	4
Hybrid projects	20

- 1. BostonGene
- 2. DokaGene. **Phytoengineering Research center**
- 3. Farmadoc
- 4. Generuim
- 5. Genetico

- 6. Geonome
- 7. Insilico
- 8. IRA labs
- 9. IT universe
- 10. M&S decisions
- **11. Milaboratory**
- 12. MolTech

Industrial Immersion Coordinator Vera Rybko

13. MRM Proteomics R

- 14. Neurotrend
- 15. PrimeBioMed
- 16. Skolkovo Gymnasium
- **17. Semantic Hub**
- 18. SOKO
- **19. Syntelly**



BostonGene	18	1 Boston <mark>Gene</mark>	I A	Bostor
Annotation of T and B cell biomarker data. Creating a database of annotated biomarke	rs	Clinical and molecule analytics of imaging projects		Identifi signatu microe
Skoltech supervisor Vera Rybko	hybrid	Skoltech supervisor Vera Rybko hyb	orid	Skoltech s Vera Ryb
BostonGene	1오	1 Boston <mark>Gene</mark>	I٨	Bostor
Ranking of anticancer therapies based on predictive biomarkers		Development of methods for analysis of B cell repertoire		Compo microe
Skoltech supervisor		Skoltech supervisor		Skoltech s
Vera Rybko	hybrid	Vera Rybko hyb	orid	Vera Rybl

A-B

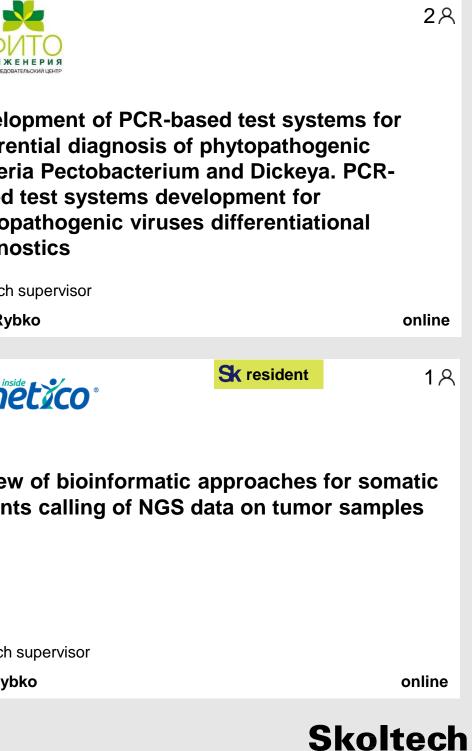
18

on <mark>Gene</mark>	.,.
ification and validation of expression atures associated with the tumor penvironment	
ch supervisor ybko	hybrid
onGene	18
positional analysis of tumor penvironment	
h supervisor ybko	hybrid



Farmadoc	1ዶ	1유 Farmadoc	И Н Ж И
Allergen immunotherapy competitive landsc analysis	ape	Heterologous expression of recombinant protein slpA in I.rhamnosus	Develo differe bacter based phytop diagno
Skoltech supervisor		Skoltech supervisor	Skoltech
Vera Rybko	online	Vera Rybko hybrid	Vera Ryt
Generium Science	1오	Cenerium Science 28	Gene
Optimization of the technology of pseudo- suspension cultivation of human mesenchyr stromal cells using microcarriers	nal	Expression and purification of adeno-associated viral particles from HEK293 cell line	Reviev variant
Skoltech supervisor		Skoltech supervisor	Skoltech
Vera Rybko	offline	Vera Rybko offline	Vera Ryb

C-G

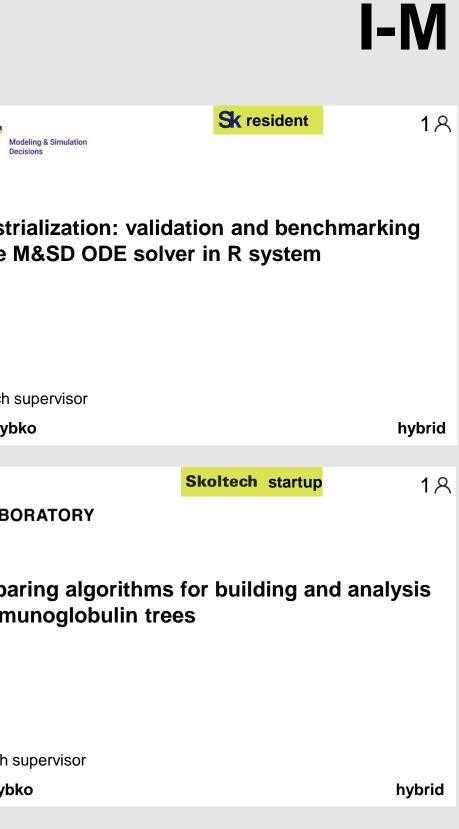


Review of bioinformatic tools for analysis and interpretation of mitochondrial DNA variants using WGS data Estimating the parameters of oil well from its incode using WGS data Develop documents of the probabilistic models for hybrid Skoltech supervisor Skoltech supervisor Yera Rybko Nor of the probabilistic models for differential gene expression Developing bioinformatic pipeline in oil metagenome analysis Skoltech supervisor Vera Rybko Development of the probabilistic models for differential gene expression Skoltech supervisor Vera Rybko Skoltech supervisor Vera Rybko	Sk resident	28	Skoltech startup Geonome	18	Ge
Vera Rybko online Vera Rybko hybrid Vera Rybko Skoltech startup 1 Skoltech startup 1 Image: Skoltech startup 1 1 1 1 1 1 1 1 1 1 <td< td=""><td>interpretation of mitochondrial DNA variants</td><td></td><td>U .</td><td>m its</td><td>docum</td></td<>	interpretation of mitochondrial DNA variants		U .	m its	docum
Vera Rybko online Vera Rybko hybrid Vera Rybko Skoltech startup 1% Skresident 1% Image: Skoltech startup 1% Image: Skresident 1%	Skoltech supervisor		Skoltech supervisor		Skoltech
Skoltech startup 1 A Geonome 1 A Developing bioinformatic pipeline in oil metagenome analysis Development of the probabilistic models for differential gene expression Skoltech supervisor Skoltech supervisor		online		hvbrid	
Geonome Insilico Insi Insi Insilico					
metagenome analysis differential gene expression improv Skoltech supervisor Skoltech supervisor Skoltech supervisor Skoltech supervisor		1오	Insilico	1오	
				s for	
	Skoltech supervisor		Skoltech supervisor		Skoltech s
		online		hybrid	Vera Ryb



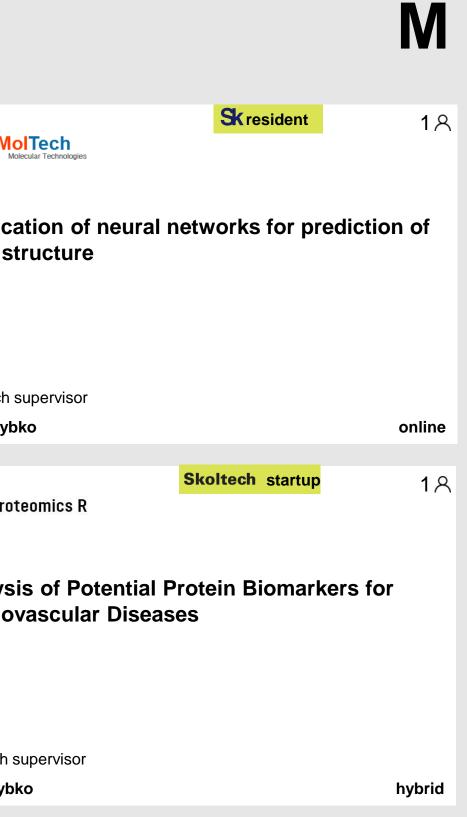


IT UNIVERSE	18	Modeling & Simulation Decisions	Sk resident	1A	M&S
Development of a clinical system for olfactory neurorehabilitation	y	Investigation of difference of the event models for PFS cancer	-		Indust of the
Skoltech supervisor		Skoltech supervisor			Skoltech
Vera Rybko o	offline	Vera Rybko		hybrid	Vera Ry
Sk resident Вк resident	28		Skoltech startup	18	
Development of an additional education program biology and bioinformatics for secondary education students of natural sciences track	ram	Comparative analysis technologies against and tumor neoantige	tumor-associa		Comp of imn
Skoltech supervisor		Skoltech supervisor			Skoltech
Vera Rybko h	ybrid	Vera Rybko		hybrid	Vera Ryl





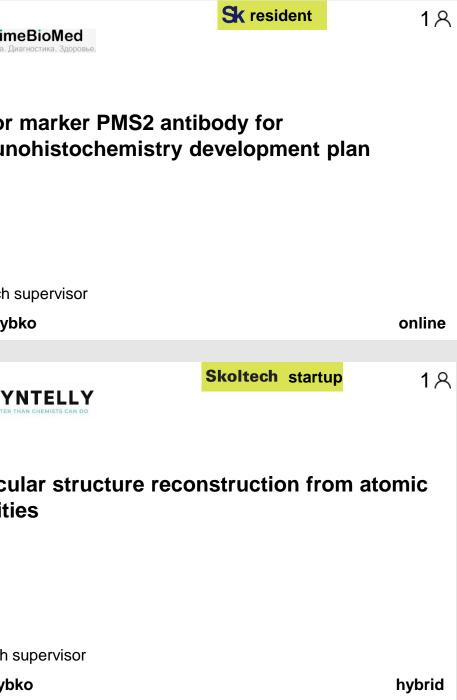
Investigation of vaccine X properties Development of efficient algorithms for working with data in the BAM format for the analysis of TCR and BCR repertoire sequencing data Application of vaccine X properties Skoltech supervisor Skoltech supervisor Skoltech supervisor Vera Rybko Npbrid Skoltech supervisor Skoltech startup NPBrid Vera Rybko Skoltech startup 1A MRM Proteomics R MRM Proteomics R MRM Proteomics R Implementing a graph convolutional neural protein-ligand interaction Compilation and visualization of the protein-disease associative graph Analysi Cardion Skoltech supervisor Skoltech supervisor Skoltech supervisor Skoltech supervisor Skoltech supervisor Vera Rybko online Skoltech supervisor Skoltech supervisor Skoltech supervisor	Skoltech startup	1오	Skoltech startup	18	
Vera Rybko hybrid Vera Rybko hybrid Vera Rybko hybrid left a Rybko Skresident 1.0	Investigation of vaccine X properties		with data in the BAM format for the analys	sis of	
Vera Rybko hybrid Vera Rybko hybrid Vera Rybko hybrid lea Rybko Skotech startup 1% 1% MRM Proteomics R MRM Proteomics R	Skoltech supervisor		Skoltech supervisor		Skoltech s
Skoltech startup 1 & MRM Proteomics R MRM Proteomics R Implementing a graph convolutional neural network (GCNN) for predicting affinity of a protein-ligand interaction Compilation and visualization of the protein-disease associative graph Analysis Skoltech supervisor Skoltech supervisor Skoltech supervisor Skoltech supervisor Skoltech supervisor		hybrid		hybrid	Vera Ryb
Implementing a graph convolutional neural network (GCNN) for predicting affinity of a protein-ligand interaction Compilation and visualization of the protein-disease associative graph Analysi Cardiov Skoltech supervisor Skoltech supervisor Skoltech supervisor Skoltech supervisor Skoltech supervisor					
network (GCNN) for predicting affinity of a protein-ligand interaction disease associative graph Cardiove associative graph Skoltech supervisor Skoltech supervisor Skoltech supervisor Skoltech supervisor		1오		18	MRM Prot
	network (GCNN) for predicting affinity of a			ein-	-
	Skoltech supervisor		Skoltech supervisor		Skoltech s
	Vera Rybko	online	Vera Rybko	hybrid	Vera Rybl





<mark>Skoltech startup</mark> MRM Proteomics R	1ጸ	Sk resident 1, NEUROTREND HEUPOTPEHO	ዲ Hayka. Ди
Synthesis of proteotypic peptide standards quantitative next-generation MS-based proteomics assays	for	Applying of electroencephalography in neuromarketing research	Tumor immun
Skoltech supervisor		Skoltech supervisor	Skoltechs
Vera Rybko	offline	Vera Rybko hybri	id Vera Ryb
Semantic Hub နို	18	SOKO 1,	
Analysis of oncology patients' needs in the countries of Latin America as a basis for tra Al-platform		Search for SNPs linked with valuable features of soy bean (Glycine max)	f Molecu densitie
Skoltech supervisor		Skoltech supervisor	Skoltech s
Vera Rybko	online	Vera Rybko onlin	e Vera Rybl

M-Z





Contacts



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Nadezhda Rylkova Specialist

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