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ИНОВАТИВНАТА ОБРАЗОВАТЕЛНА СРЕДА ПРЕЗ ПРИЗМАТА НА ЕМОЦИОНАЛНАТА ИНТЕЛИГЕНТНОСТ И ИЗКУСТВЕНИЯ ИНТЕЛЕКТ



BioMed-Varna Foundation
Фондация БиоМед-Варна

КОМПЕТЕНТНОСТИ, УМЕНИЯ И ИЗКУСТВЕН ИНТЕЛЕКТ

Галина Момчева

2023



Галина Момчева

- Chair of **BioMed-Varna Foundation**
Member of Scientific Research Group
- **ADVANCED COMPUTATIONAL BIOIMAGING**
Research Institute in Medical University Varna

КОМПЮТЪРНИ НАУКИ

Специализирани интереси: дигитална компетентност, STEAM, алгоритмичен дизайн, изкуствен интелект, невронни мрежи, технологично предприемачество.

Председател на Фондация BioMed-Varna, с дейности: интердисциплинарни научни изследвания; образователни инициативи; промотиране на науката (компютърни науки, науки за живота и изкуства).

Заемани длъжности

ПРОЕКТИ+

2022 -	Председател на Фондация BioMed-Varna
2013-2022	Ръководител на катедра „Компютърни науки“, ВСУ
2016-2021	Председател на ИКТ Клъстер-Варна
2013-2021	Управител на „Иновации и консултиране“ ООД
1993-2005 2022-2023	Учител Информатика и ИТ, МГ
2005-2022	Доцент Компютърни науки, ВСУ

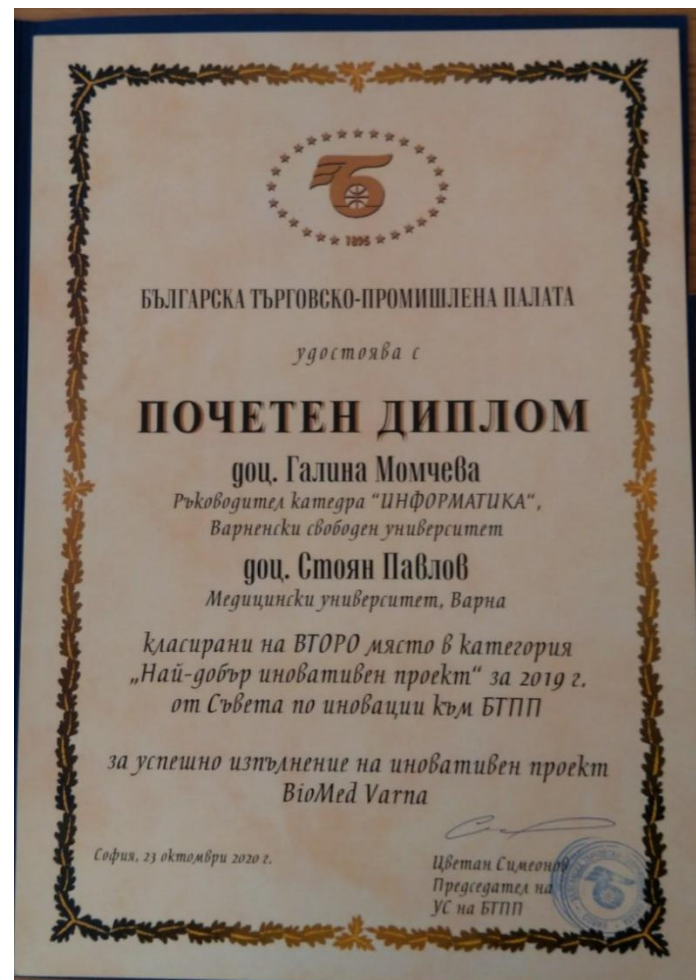


BioMed - Varna AWARDS 2020





BioMed - Varna AWARDS 2020





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Foundation 2022

with leading experts from



www.mu-varna.bg



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“CHERNORIZETS HRABAR”

www.vfu.bg

BIOMED-VARNA FOUNDERS

Fire Together Wire Together



Galina Momcheva



Stoyan Pavlov



Trifon Chervenkov



Anton Tonchev



Mariya Kardjieva

[www.fb.com/BioMedVarna](https://www.facebook.com/BioMedVarna)



Fire Together Wire Together

2023 BioMed-Varna Areas of Interests

➤ **Computer Science**

➤ **Life Sciences**

➤ **Art**

Special focus on INTERDISCIPLINARITY



Mathematics Days in Sofia

Section "Mathematical Foundations of Computer Science and Artificial Intelligence"

GM - DESIGN OF NEW ARCHITECTURES FOR ARTIFICIAL NEURAL NETWORKS INSPIRED BY MODERN BRAIN RESEARCH

TIMELINE OF EFFORTS

NUI

#Neuroscience Course
2018

METRICS M&D



2018

#Neuromarketing, #DataScience
SmartConf 2018

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https://events.vfu.bg/smartconf_2018



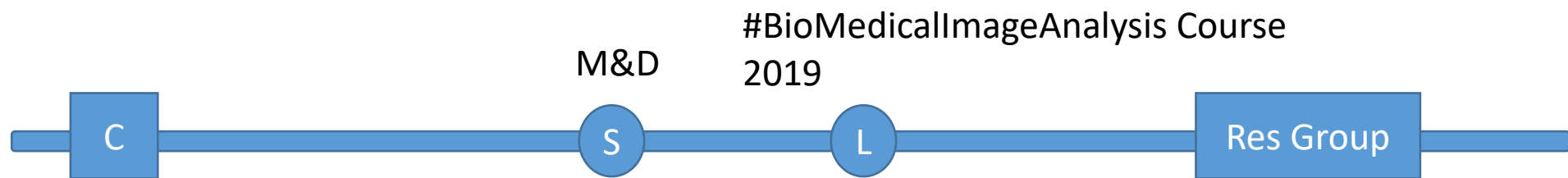


Mathematics Days in Sofia

Section "Mathematical Foundations of Computer Science and Artificial Intelligence"

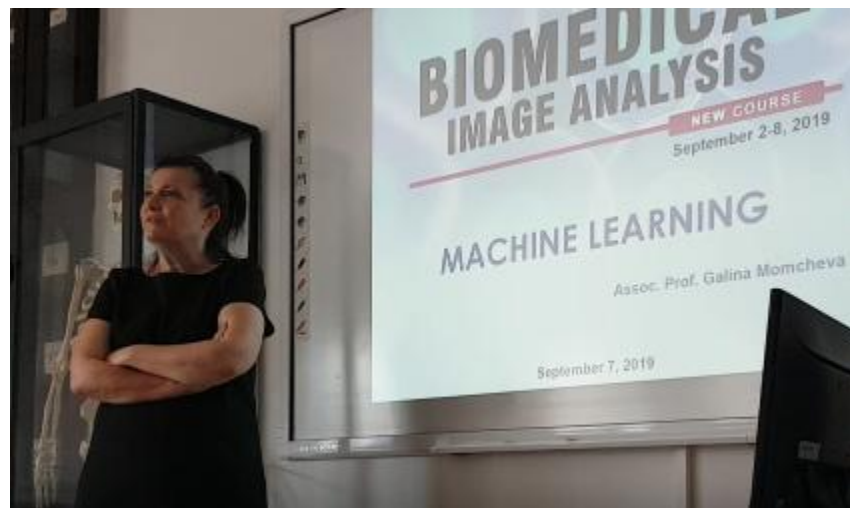
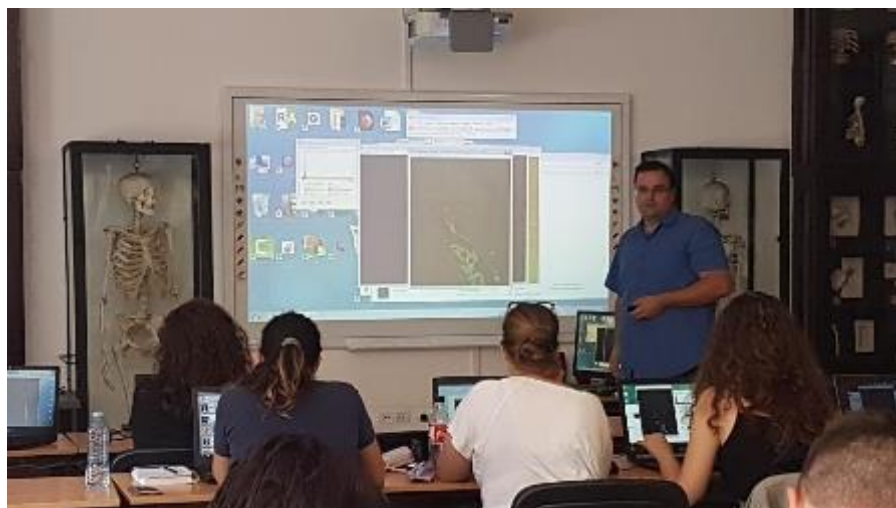
GM - DESIGN OF NEW ARCHITECTURES FOR ARTIFICIAL NEURAL NETWORKS INSPIRED BY MODERN BRAIN RESEARCH

TIMELINE OF EFFORTS



#HealthTech, #FinTech, #DataScience
SmartConf 2019
Poster Sessions

ADVANCED COMPUTATIONAL BIOIMAGING
Research Institute,
MedUni, Varna, 12-2019



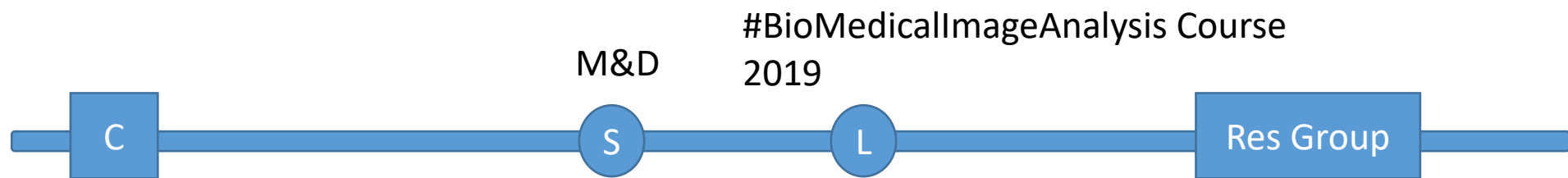


Mathematics Days in Sofia

Section "Mathematical Foundations of Computer Science and Artificial Intelligence"

GM - DESIGN OF NEW ARCHITECTURES FOR ARTIFICIAL NEURAL NETWORKS INSPIRED BY MODERN BRAIN RESEARCH

TIMELINE OF EFFORTS



#HealthTech, #FinTech, #DataScience
SmartConf 2019
Poster Sessions

JBIOMEDVARNA

12-2019

**ADVANCED COMPUTATIONAL
BIOIMAGING**

12-2019
Research Institute,
MedUni, Varna





Mathematics Days in Sofia

Section "Mathematical Foundations of Computer Science and Artificial Intelligence"

GM - DESIGN OF NEW ARCHITECTURES FOR ARTIFICIAL NEURAL NETWORKS INSPIRED BY MODERN BRAIN RESEARCH

TIMELINE OF EFFORTS



#Neuroscience, #DataScience
SmartConf 2020



M.Sc. AI in NEUROSCIENCE

[NeuAI Project Info](#)

2020

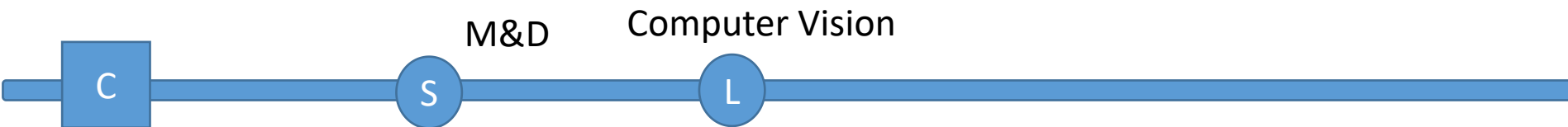
**MD Research Institute
Neuroscience**



#Neuroscience, #DataScience
SmartConf 2021

M.Sc. AI in BioMedicine

M.Sc. AI in Healthcare



#Neuroscience, #DataScience
SmartConf 2022



#AlinBioM
edicine

#BrAiNN

#CompLife





Galina Momcheva

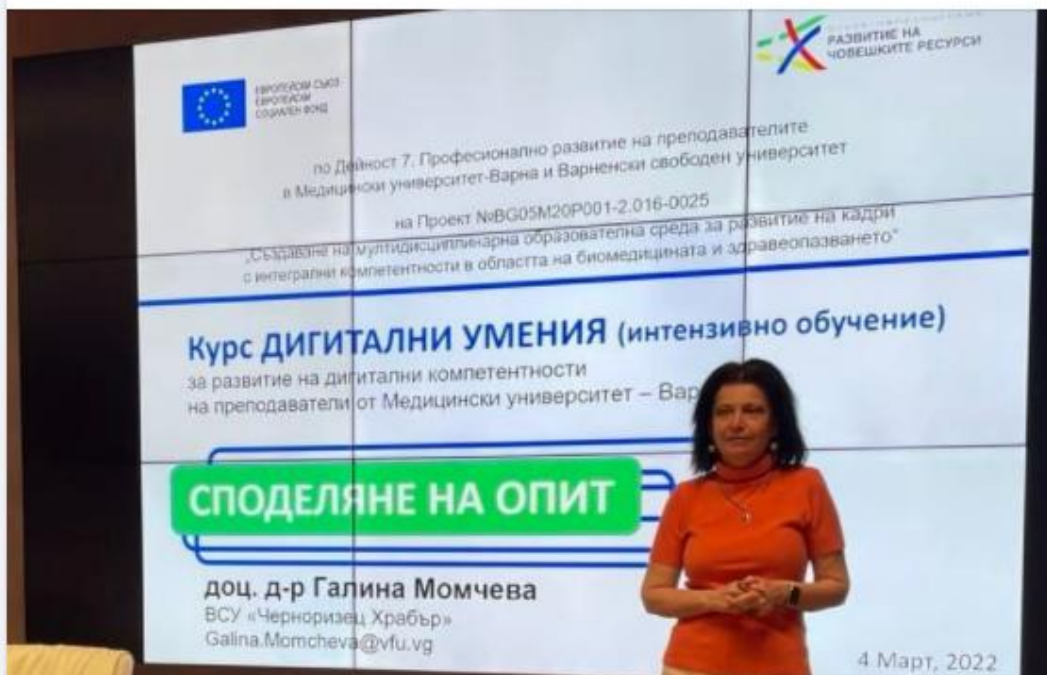
5d · 🌐



4 март, 2022

момента снимка от споделяне на опит по време на обучението в курса ДИГИТАЛНИ УМЕНИЯ по проекта за модернизация МедУни-ВСУ. В ход са дейности по обучение на преподавателите от двата университета. Вече се обсъжда идеята за създаване на иновативна методика за обучение на студентите в интердисциплинарните магистърски програми в дистанционна форма (M.Sc. AI in BioMedicine и M.Sc. AI in HealthCare).

Магистърските програми се подготвят за акредитация от двата универси... [See more](#)



90

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35 – 17 – 18 – 6 – 2 – 35 – 3 – 21

31 АВГУСТ - 1 СЕПТЕМВРИ 2023

ИНОВАТИВНАТА ОБРАЗОВАТЕЛНА СРЕДА ПРЕЗ ПРИЗМАТА НА ЕМОЦИОНАЛНАТА ИНТЕЛИГЕНТНОСТ И ИЗКУСТВЕНИЯ ИНТЕЛЕКТ

ПОСОКИ И ПРЕДИЗВИКАТЕЛСТВА

Организатор - Община Варна

СЕСИЯ УЧАЩИТЕ ВЪВ ВАРНА ПРЕДСТАВЯТ

студентски и ученически проекти

място Икономически университет-Варна, зала Студентски съвет

31.08.2023 г.

Модератор: Галина Момчева

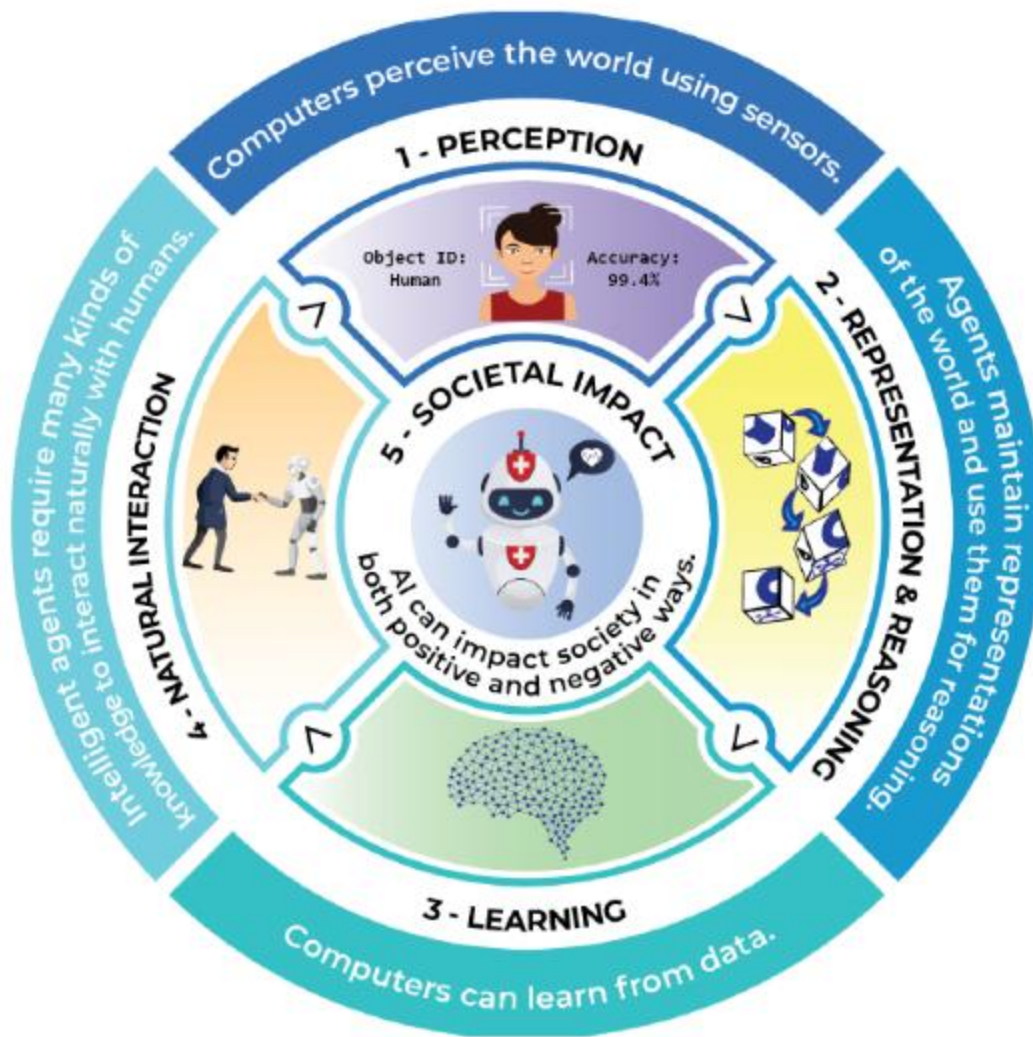
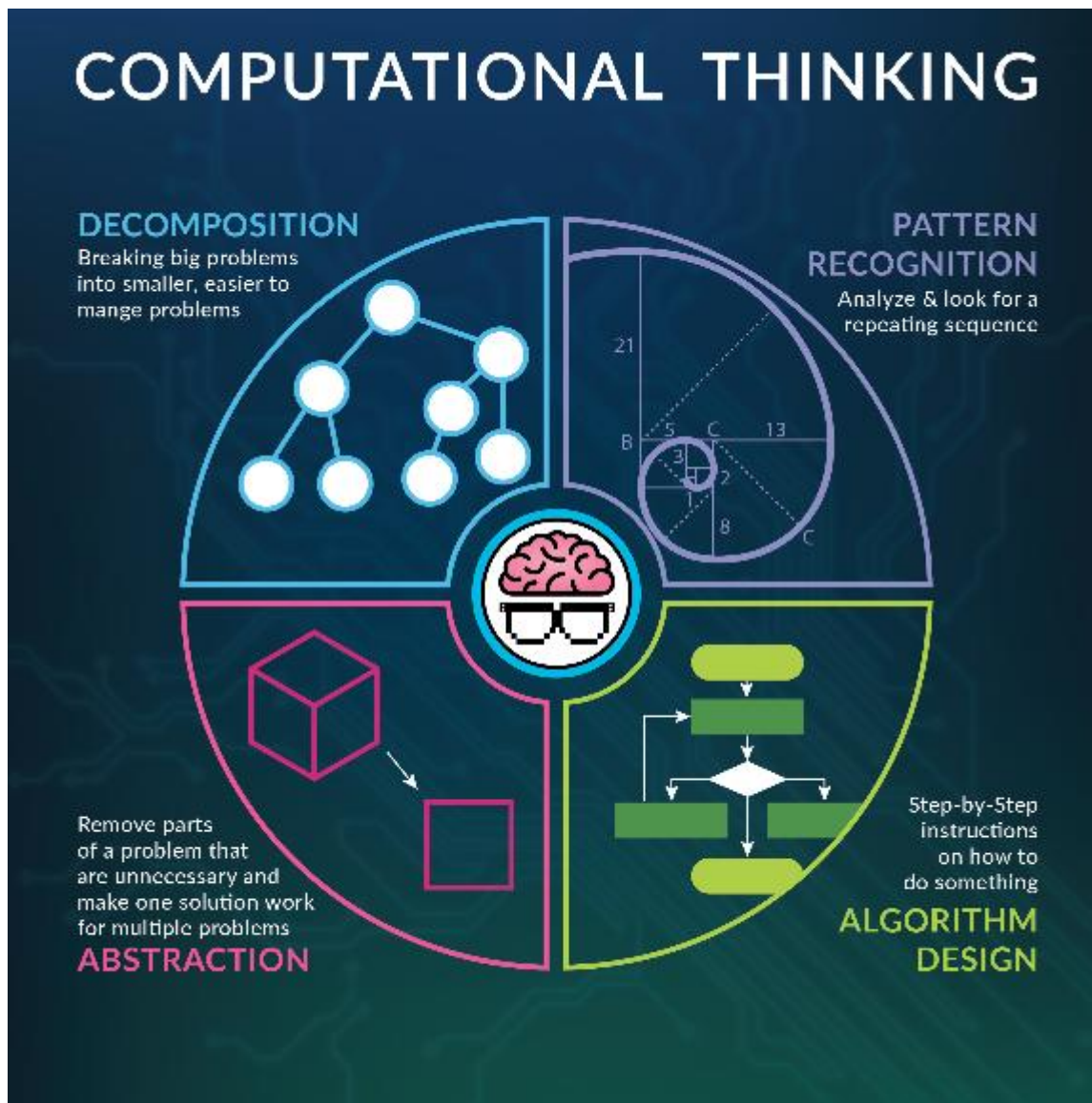


Figure 8.2. The Five Big Ideas in AI graphic from AI4K12.org.





<https://www.indeed.com/career-advice/finding-a-job/learning-skills>

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[Finding a job](#) > Learning Skills: Definition and Examples

Learning Skills: Definition and Examples

[Indeed Editorial Team](#)

Updated July 22, 2022



Critical-thinking skills

1. Critical-thinking
2. Attention to detail
3. Evaluation
4. Analytical-thinking
5. Inferencing
6. Self-regulation
7. Annotative reading
8. Text interpretation
9. Decision-making



Концепция за развитието на изкуствения интелект в България до 2030 г.

Дата на публикуване: 07.11.2022

Последна актуализация: 07.11.2022

С Протокол 72 от редовното заседание на Министерския съвет от 16.12.2020 г. е приета Концепция за развитието на изкуствения интелект в България до 2030 г.

Документът предлага цялостна визия за развитието и използването на изкуствения интелект в България. Основава се върху стратегическите и програмни документи на Европейската комисия, които разглеждат изкуствения интелект като един от основните двигатели на цифровата трансформация в Европа.

Основната цел на концепцията е да обедини усилията по разработка и внедряване на системи с изкуствен интелект чрез създаване на научен, експертен, бизнес и управленски капацитет. Предвижда се осигуряване на модерна комуникационна и научна инфраструктура за развитие на цифрови технологии от ново поколение. Ще бъде усъвършенствана системата за образование и учене през целия живот. Ще бъде подкрепено развитието на научните изследвания и внедряването на иновации в ключови сектори, както и ще се работи за въвеждане на етична правна и регулаторна рамка, която се ползва с обществено доверие.

- [Концепция за развитието на изкуствения интелект в България до 2030 г. \(официална\)](#)





Bulgaria - Digital National Alliance

Posted on 12 July 2022



Digital National Alliance is a non-governmental organisation and is part of the initiative of the European Commission, the Digital Skills and Jobs Coalition. It aims to promote and implement the objectives of the initiative in Bulgaria.

The Bulgarian Coalition was launched in June 2014 as the National Coalition for Digital Jobs in Bulgaria by Gergana Passy – Digital Champion for Bulgaria.

DNA brings together public authorities, business, education, training and labour market stakeholders. It supports the activities of more than 30 members of the Alliance to respond to the shortage of information and communication technology (ICT) skills and meet the demand of ICT professionals and experts in Bulgaria.

National coalition details

Website link

Digital National Alliance

Target audience

Digital skills for the labour force.
Digital skills in education.
Digital skills for all

Digital skill level

Basic
Intermediate

КАРТОГРАФИРАНЕ НА БЪЛГАРСКАТА ИКОНОМИКА ПО РЕГИОНИ, ПО СЕКТОРИ И ПО ФИРМИ



ИЗПЪЛНИТЕЛНА АГЕНЦИЯ ЗА НАСЪРЧАВАНЕ
НА МАЛКИТЕ И СРЕДНИТЕ ПРЕДПРИЯТИЯ

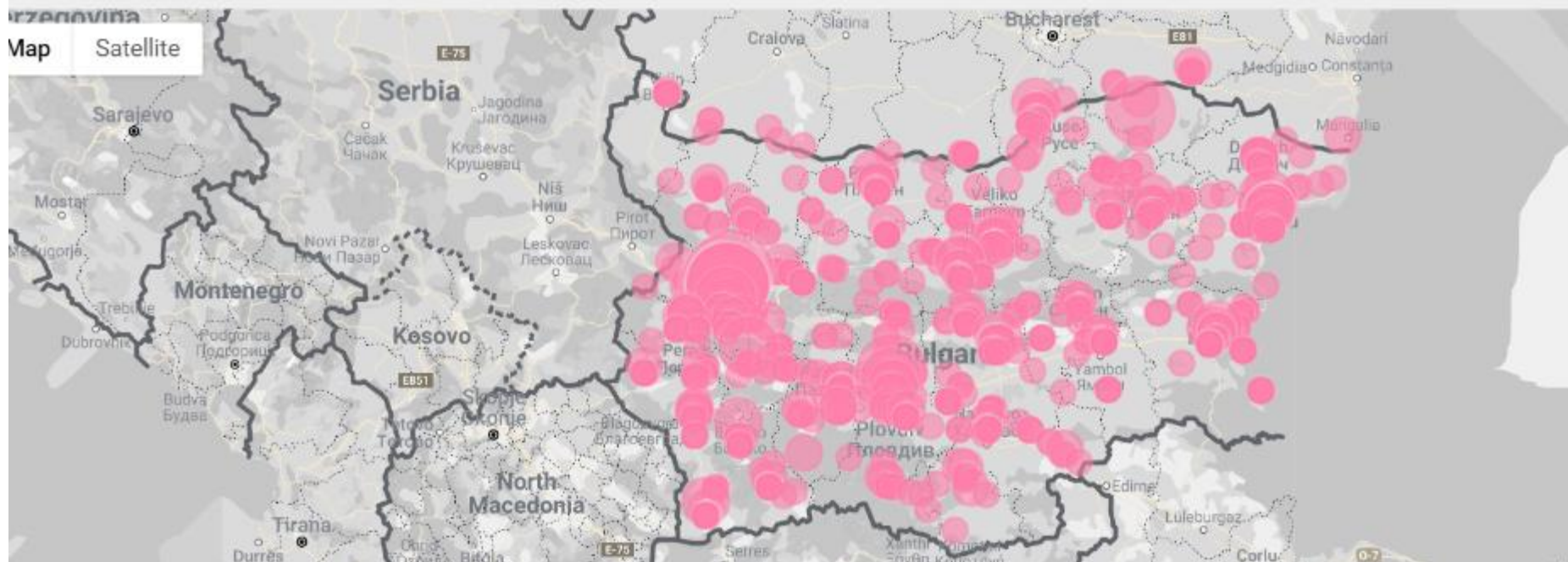
Карта

За проекта

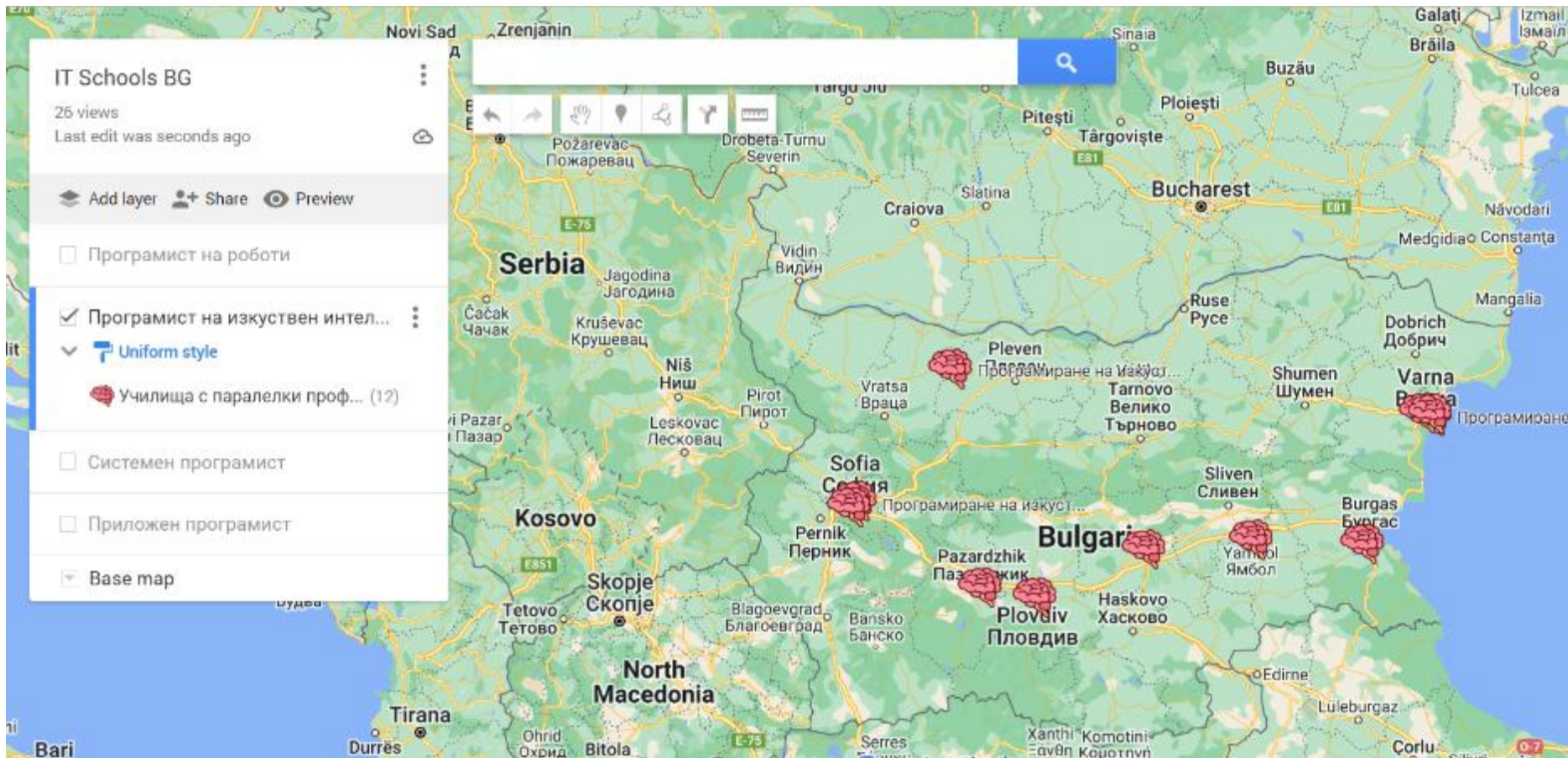
Списък с фирми

С

- Аутомотив
 - Машинстроене
 - Текстилна
 - ВЕИ
 - ИТ - ИКТ
 - Мехатроника
 - Морска
 - Образование и наука
 - Аутсорсинг
 - Хранително вкусова
 - Мебелна
 - Енергетика
 - Козметична
 - Биотехнологии
- Служители



IT Schools BG 2023



https://www.google.com/maps/d/edit?mid=1fe6R-e4YIEZ_7SyM8t6mJfb36Qigbg8&ll=42.72184875030452%2C24.759525249515292&z=7



European
Commission

<https://esco.ec.europa.eu/en>



OCCUPATIONS



SKILLS



QUALIFICATIONS

ESCO is the multilingual classification of European Skills, Competences, and Occupations.



O*NET Resource Center

<https://www.onetcenter.org/>

*O*NET Resource Center is sponsored by the U.S. Department of Labor*

РАЗВИТИЕ НА УМЕНИЯ ЗА УЧЕНЕ, Галина Момчева



critical thinking



creativity



collaboration



communication

21st Century Skills

How today's students can stay competitive in a changing job market

Learning Skills



critical thinking



creativity



collaboration



communication

Literacy Skills



information



media



technology

Life Skills



flexibility



leadership



initiative



productivity



social skills

Галина Момчева

ДИГИТАЛНА КОМПЕТЕНТНОСТ и ИЗКУСТВЕН ИНТЕЛЕКТ

учебно пособие



AI 01. ● Knows how to identify areas where AI can bring benefits to various aspects of everyday life. For example, in healthcare, AI might contribute to early diagnosis, while in agriculture, it might be used to detect pest infestations. (2.3)

AI може да помогне във всекидневния ни живот – здравеопазване (ранна диагностика), борба с вредителите в селското стопанство и др.

Примери за приложения с AI за здравеопазването и ранна диагностика:

KELVIN Health, Buoy Health, Viz.ai, Freenome

<https://kelvin.health/>

The screenshot shows a Zoom meeting interface. The main window displays a presentation slide titled "Natural therapeutic areas" with the Kelvin Health logo. The slide features three heatmaps:

- Vascular Disease:** Two heatmaps showing heatmaps of human legs and arms, with a label "Blockage" below them.
- Breast Cancer:** A heatmap of a breast with a white box labeled "Spotted pre-cancer condition (fibrosis)". Below it are the labels "Metabolism", "Inflammation", and "Blockage".
- Rheumatoid Arthritis:** A heatmap of a hand showing joint inflammation, with the label "Inflammation" below it.

The Zoom interface includes a top bar with "REC" and "Georgi Kostadinov is presenting". The right sidebar shows a grid of participants: Georgi Kostadinov (presenting), Mornchil Psychev, Rositsa Marinova, Stoyan Pavlov, Aleksandar Yanev, Rozalina Gramatikov, and "You". The bottom bar contains standard Zoom controls like mute, video, chat, and end call.



ПЪТНА КАРТА ЗА РАЗВИТИЕ НА УСТОЙЧИВА STEAM СРЕДА В МГ – ВАРНА

Елеонора Павлова, Галина Момчева, МГ „Д-р Петър Берон“, Варна

РАЗВИТИЕ ИНФРАСТРУКТУРА



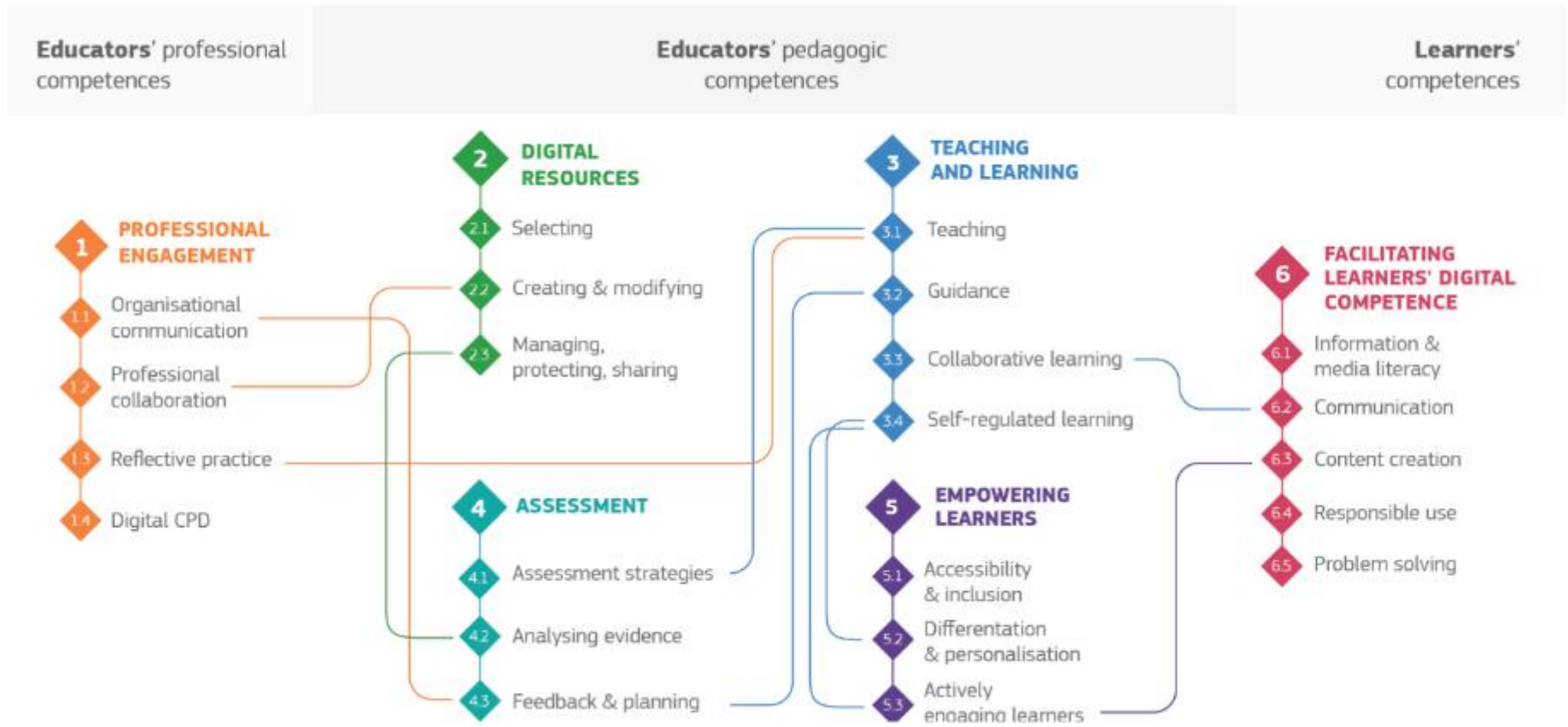
НАСОКИ ОТНОСНО ЕТИЧНИТЕ АСПЕКТИ ЗА НАДЕЖДЕН ИИ

разработен от [Trustworthy AI](https://www.trustworthyai.eu/)



РАЗВИТИЕ НА УМЕНИЯ ЗА УЧЕНЕ И ПРЕПОДАВАНЕ

DigcompEDU





What "prompt engineering"

remote

51 jobs ?

Founder-In-Residence-Book and I

AI Fund
Remote

Estimated \$63.8K - \$80.7K a year ?

Contract

LEAD AI ENGINEER (Generative AI)

CHAPTR GmbH
Remote

Estimated \$150K - \$190K a year ?

AI Engineer

Talent Group 4.1
Remote

From \$65 an hour

Contract

Monday to Friday

AI Scripting and Automation Engineer

AAPC 3.3
Remote

Estimated \$95.3K - \$121K a year ?

Full-time

Software Engineer - Trust and Safety

Anthropic

Hybrid remote in San Francisco, CA 94111

\$300,000 - \$450,000 a year

Full-time

- Experience with **prompt engineering**, jailbreak attacks, and other adversarial inputs.
- Full stack **engineering** to build internal tooling.

Posted 12 days ago · More...



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Computer Vision	Content Creator	Customer Service	Data Analyst
Data Engineer	Data Science	Deep Learning	DevOps
Engineering Manager	Finance	Frontend Engineer	Full Stack Developer
Graphic Designer	Machine Learning (ML)	Management	Marketing
NLP	Operations	Product	Prompt Engineer
QA Engineer	Robotics Engineer	Sales	Security Engineer
Software Architect	Software Engineer	UI/UX Design	User Research



Machine Learning Engineer, Moderation at OpenAI

San Francisco \$ \$200,000 - \$370,000

Software Engineer

Machine Learning (ML)

AI Researcher

Deep Learning



Software Engineer, iOS at OpenAI

San Francisco \$ \$200,000 - \$370,000

Software Engineer

AI Engineer



Stable **Diffusion**

Playground

Features

FAQ

Search Prompts

Prompt Generator

ControlNet

Visual ChatGPT

Stable Diffusion **Online**

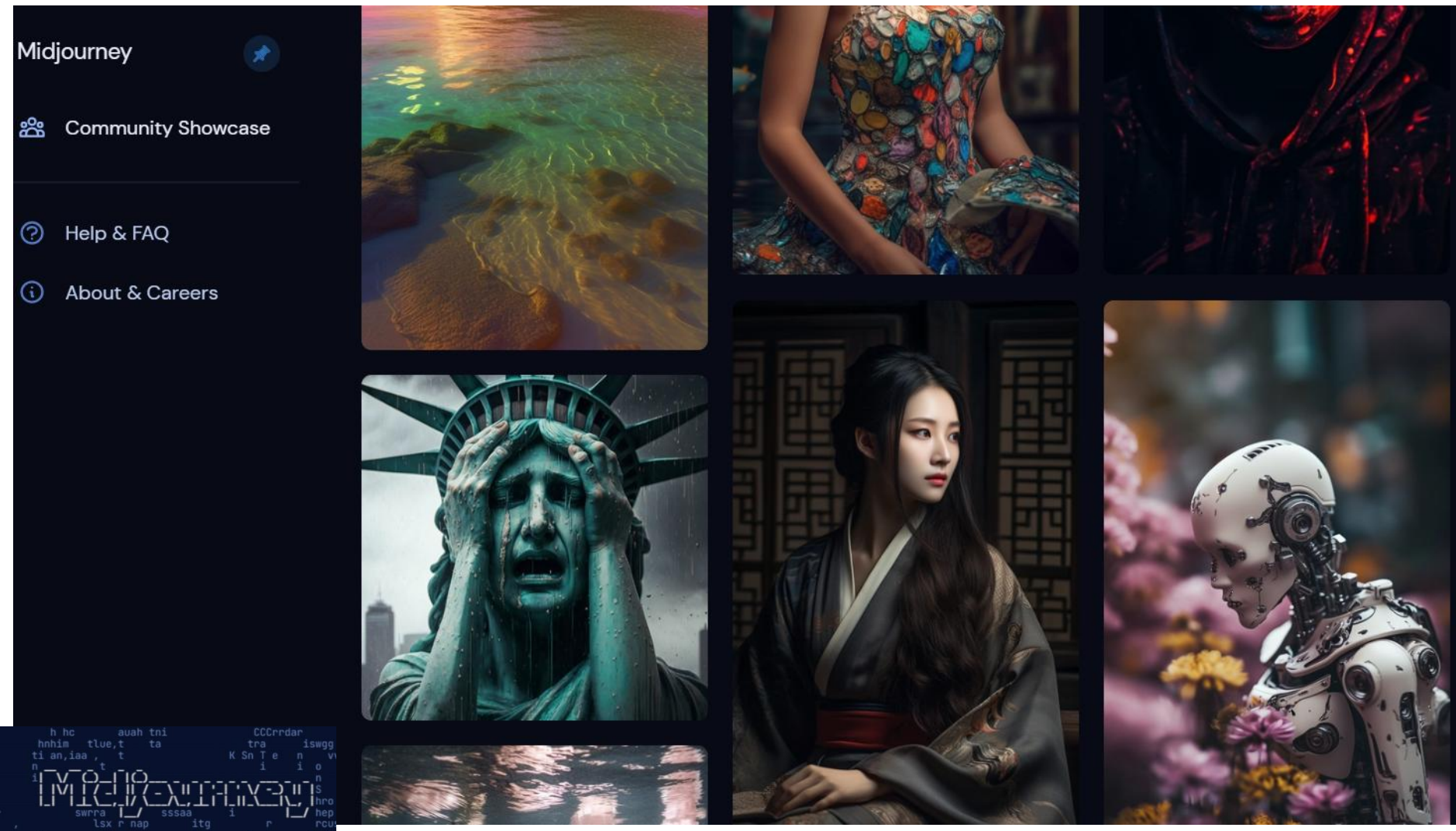
Stable Diffusion is a latent text-to-image diffusion model capable of generating photo-realistic images given any text input, cultivates autonomous freedom to produce incredible imagery, empowers billions of people to create stunning art within seconds.

Create beautiful art using stable diffusion ONLINE for [free](#).

[Get Started for Free](#)

[▶ Prompt Database](#)

<https://stablediffusionweb.com/>





NLP (Natural Language Processing/Understanding)

- Part of speech (POS)
- Tokenizing
- Stemming
- Lemmatizing

Natural Language Processing With Python's NLTK Package

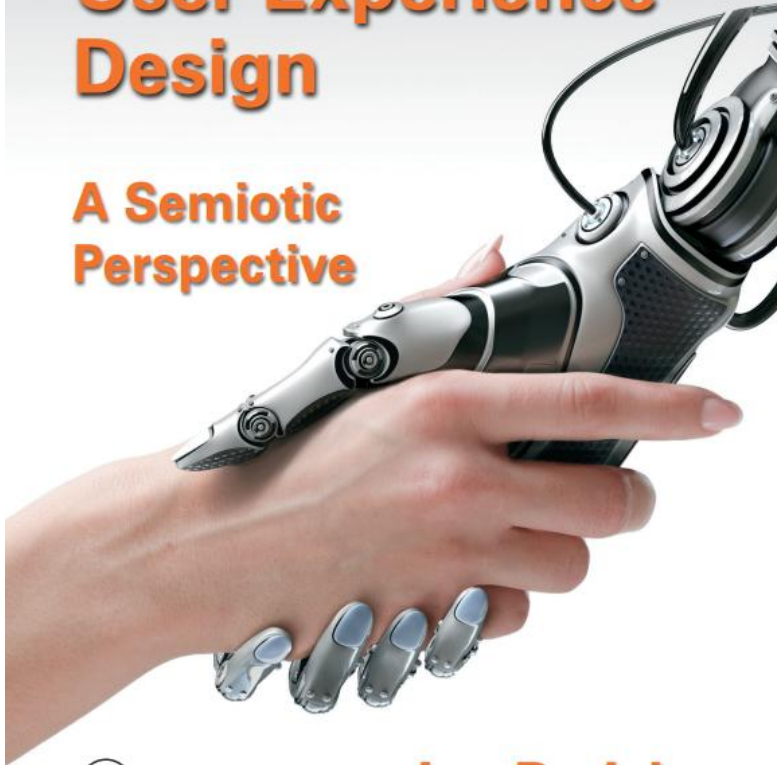
Table of Contents

- Getting Started With Python's NLTK
- Tokenizing
- Filtering Stop Words
- Stemming
- Tagging Parts of Speech
- Lemmatizing
- Chunking
- Chinking
- Using Named Entity Recognition (NER)
- Getting Text to Analyze
- Using a Concordance
- Making a Dispersion Plot
- Making a Frequency Distribution
- Finding Collocations
- Conclusion



Human-Computer Interaction and User Experience Design

A Semiotic Perspective

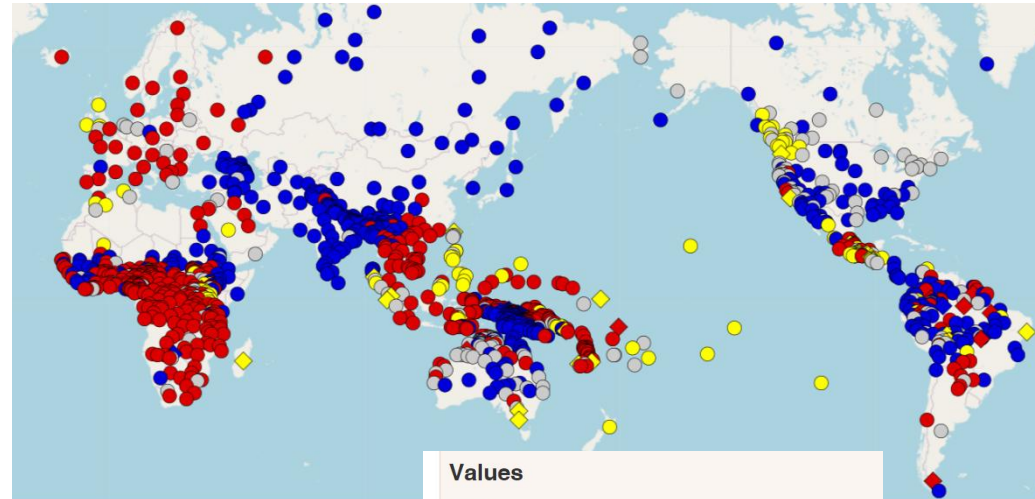









THE WORLD ATLAS
OF LANGUAGE STRUCTURES
ONLINE



<https://wals.info>

Order of Subject, Object and Verb by Matthew S. Dryer



Values		
	SOV	564
	SVO	488
	VSO	95
	VOS	25
	OVS	11
	OSV	4
	No dominant order	189



Galina Momcheva, English for Computer Science, 2023



EN English

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eTranslation

The European Commission's Machine Translation system

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Galina Momcheva, English for Computer Science, 2023

Prompt Engineering

Introduction

LLM Settings

Basics of Prompting

Prompt Elements

General Tips for Designing Prompts

Examples of Prompts

Techniques

Zero-shot Prompting

Few-shot Prompting

Chain-of-Thought Prompting

Self-Consistency

Generate Knowledge Prompting

Introduction > Basics of Prompting

Basics of Prompting

Basic Prompts

You can achieve a lot with simple prompts, but the quality of results depends on how much information you provide it and how well-crafted it is. A prompt can contain information like the *instruction* or *question* you are passing to the model and including other details such as *context*, *inputs*, or *examples*. You can use these elements to instruct the model better and as a result get better results.

Let's get started by going over a basic example of a simple prompt:

Prompt

The sky is

Output:



Galina Momcheva, English for Computer Science, 2023



Overview Documentation API reference Examples **Playground**

Upgrade Help Personal

Get started

Enter an instruction or select a preset, and watch the API respond with a **completion** that attempts to match the context or pattern you provided.

You can control which **model** completes your request by changing the model.

KEEP IN MIND

- Use good judgment when sharing outputs, and attribute them to your name or company. [Learn more.](#)
- Requests submitted to our API will not be used to train or improve future models. [Learn more.](#)
- Our default models' training data cuts off in 2021, so they may not have knowledge of current events.

Playground

Load a preset...

Save

View code

Share

...

Write a tagline for an ice cream shop.

Model

text-davinci-003

text-davinci-002

Second generation model in the **GPT-3** series. Can perform any task the earlier GPT-3 models can, often with less context. It can process up to 4,000 tokens per request.

STRENGTHS

Complex intent, cause and effect, creative generation, search, summarization for audience

GPT-3

text-davinci-003

text-curie-001

text-babbage-001

text-ada-001

text-davinci-002

text-davinci-001

davinci-instruct-beta

Mode

Complete

Model

text-davinci-003

Temperature

0.7

Maximum length

256

Stop sequences

Enter sequence and press Tab

Top P

1

Frequency penalty

0

Presence penalty

0

Submit





Galina Momcheva, English for Computer Science, 2023



Summarizer

Upgrade to Premium

- Paraphraser
- Grammar Checker
- Plagiarism Checker
- Co-Writer
- Summarizer
- Citation Generator
- Translator

QuillBot Premium

Chrome Extension

Word Extension

Help Center

Contact Us

QuillBot for Chrome | Write like a pro, everywhere you write.

Add to Chrome. It's

Summarizer

Key Sentences

Paragraph

Summary Length: Short Long

Enter or paste your text and press "Summarize."

Paste text

Upload Doc

Summarize

0 Sentences • 0 Words



Galina Momcheva, English for Computer Science, 2023



Why Grammarly ▾

For Work ▾

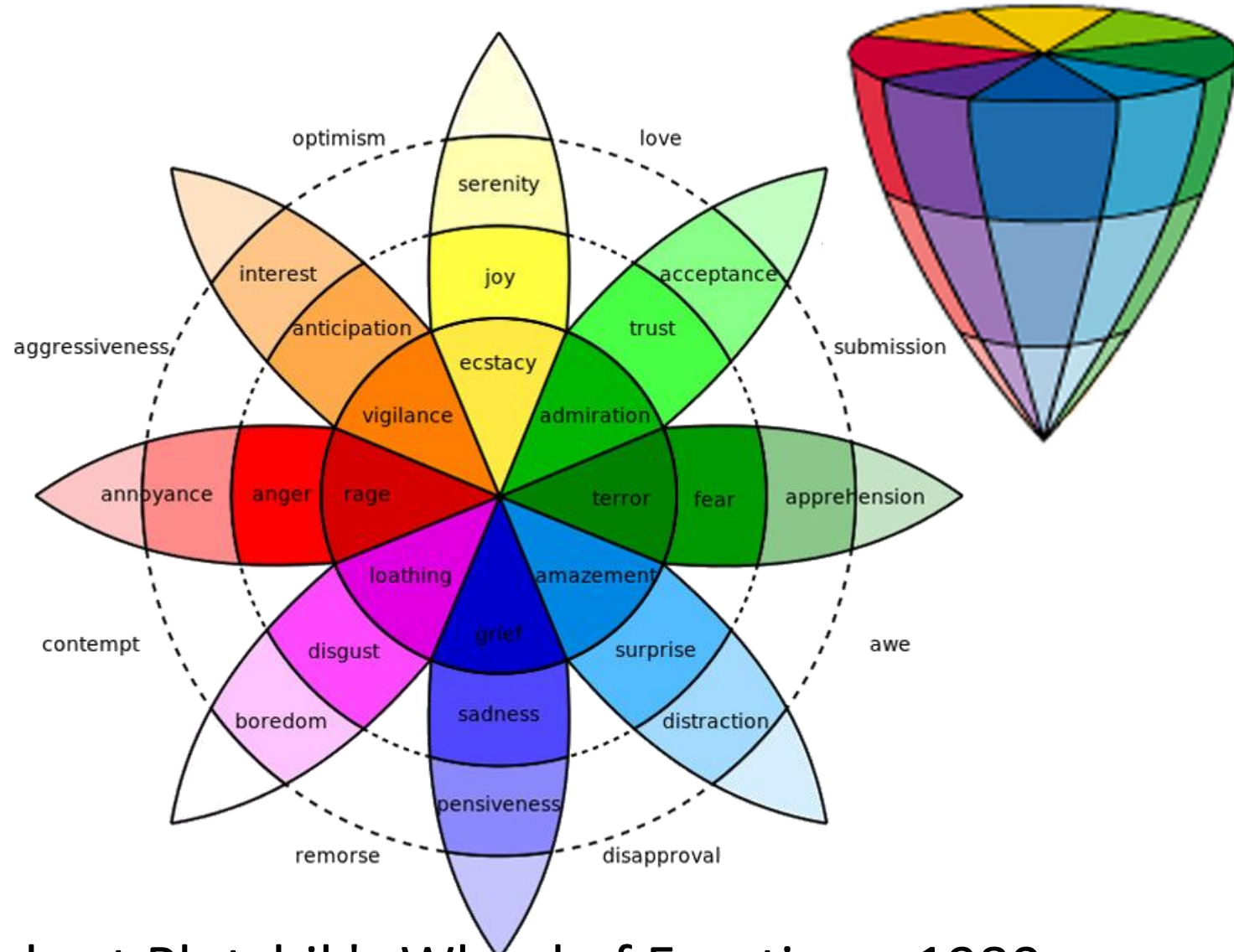
For Education ▾

Compare Plans

Great Writing, Simplified

Compose bold, clear, mistake-free writing with Grammarly's new AI-powered desktop Windows app.

<https://www.grammarly.com/>



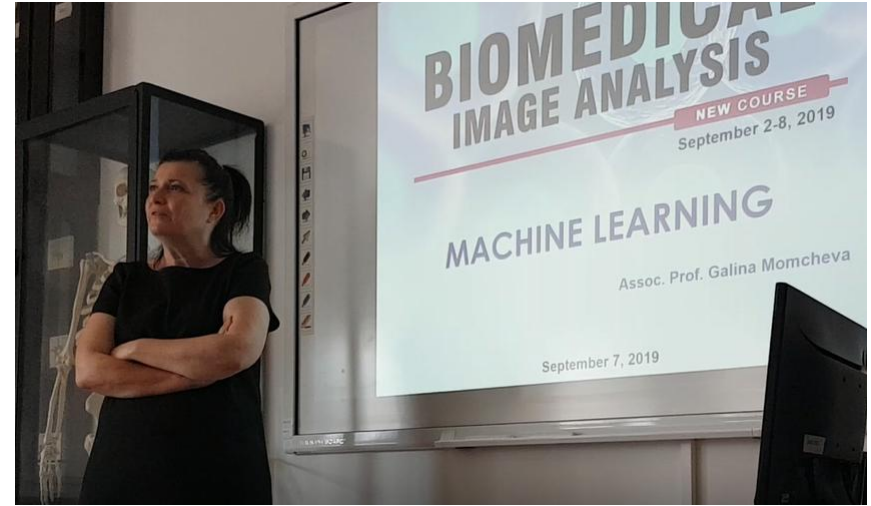
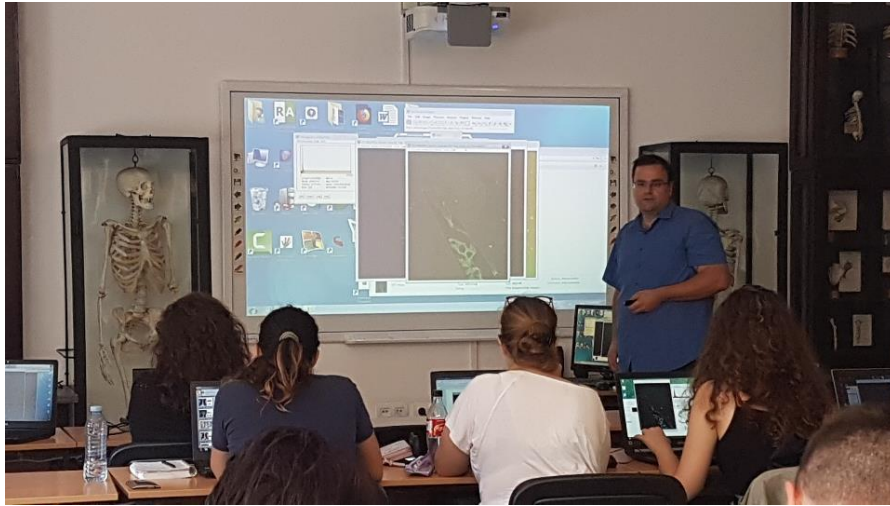
Robert Plutchik's Wheel of Emotions, 1980



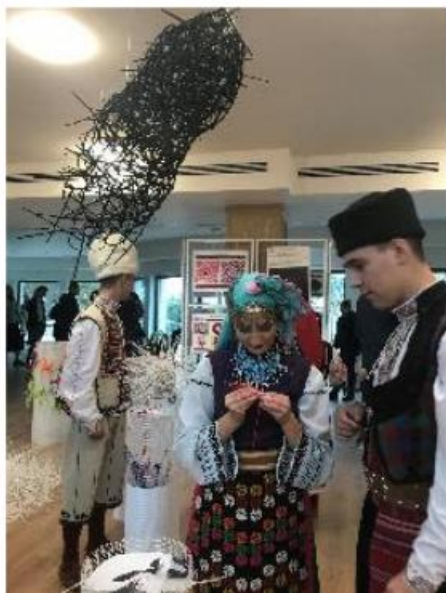
10 ПОЛОЖИТЕЛНИ ЕМОЦИИ ЗА ХОРАТА

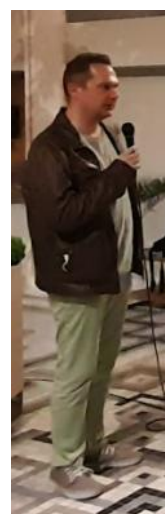
- радост
- благодарност
- спокойствие
- интерес
- надежда
- гордост
- забавление
- вдъхновение
- авторитет
- обич

Извод: за да се възползваме от това трябва да предизвикваме тези емоции у хората чрез нашите приложения



COMPUTER VISION







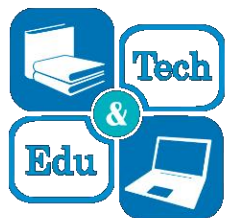
Морско казино, Варна

17.09.2022



НАУКИ ЗА ЖИВОТА = ВЯРА, НАДЕЖДА И ЛЮБОВ





Edu&Tech

ОБРАЗОВАНИЕ И ТЕХНОЛОГИИ
EDUCATION AND TECHNOLOGIES

vol.14/2023

DOI: <https://doi.org/10.26883/2010.231.5086>



ROADMAP FOR THE DEVELOPMENT OF SUSTAINABLE STEAM ENVIRONMENT AT MATH SCHOOL – VARNA

XIII Научно-практически образователен форум
Иновации в обучението и познавателното развитие



ПЪТНА КАРТА ЗА РАЗВИТИЕ НА УСТОЙЧИВА STEAM СРЕДА В МГ – ВАРНА



Елеонора Павлова, Галина Момчева
МГ „Д-р Петър Берон“, Варна

Бургас, 2023



ПЪТНА КАРТА ЗА РАЗВИТИЕ НА УСТОЙЧИВА STEAM СРЕДА В МГ – ВАРНА

Елеонора Павлова, Галина Момчева, МГ „Д-р Петър Берон“, Варна

Методика. Методологии. Практики. Квалифика

Видове практики спрямо нивото на сложност:

- Ниво 1: Приложение на тема/метод/практика от Предмет1 в тема от Предмет2;
- Ниво 2: Предмет1 и Предмет2[, ...] изследват със собствени методологии, методи, подходи, практики реален/автентичен [Обект, Явление, Отношение, Процес] и генерират съвкупност от отделни изводи/знания/хипотеза/проблем;
- Ниво 3 Предмет1 изследва понятие/явление от Предмет2;
- Ниво 4 От Предмет 1 и Предмет 2 за изследване на обект/явление се формулира комбиниран метод/практика, който се прилага.

Сложността се натрупва от взаимоотношения на знание, практики, методи, обучители, обучаеми – хора, ресурси технологични, взаимодействие на хора и технологии.



ПЪТНА КАРТА ЗА РАЗВИТИЕ НА УСТОЙЧИВА STEAM СРЕДА В МГ – ВАРНА

Елеонора Павлова, Галина Момчева, МГ „Д-р Петър Берон“, Варна

Методика. Методологии. Практики. Квалифика

- Project-based Learning (PBL)
- Inquiry-based Learning (IBL)
- ролята на учителя е да бъде ангажиращ, наставник, подкрепящ, консултант по време на работата на учениците по проекта
- учителят трябва да е преживял работата по проект в екип, за да може да има готовност да подкрепи учениците си в подобни проблемни ситуации



ПЪТНА КАРТА ЗА РАЗВИТИЕ НА УСТОЙЧИВА STEAM СРЕДА В МГ – ВАРНА

Елеонора Павлова, Галина Момчева, МГ „Д-р Петър Берон“, Варна

Методика. Методологии. Практики. Квалификации

(комбинации от вътрешни и външни квалификации)

Идентифицирани като потребност от ръководството на гимназията по време на провеждане на вътрешна квалификация през юли 2023 г. са:

- специализирано обучение по Статистика (математици, информатици, STEAM);
- Дизайн мислене (Design Thinking);
- Креативни техники и гъвкави подходи (agile);
- интердисциплинарен и на трансдисциплинарен подход;
- STEAM и облачни изчисления.





remote

What "prompt engineering"

51 jobs

Founder-In-Residence-Book and I

AI Fund

Remote

Estimated \$63.8K - \$80.7K a year

Contract

LEAD AI ENGINEER (Generative AI)

CHAPTR GmbH

Remote

Estimated \$150K - \$190K a year

AI Engineer

Talent Group 4.1

Remote

From \$65 an hour

Contract

Monday to Friday

AI Scripting and Automation Engineer

AAPC 3.3

Remote

Estimated \$95.3K - \$121K a year

Full-time

Software Engineer - Trust and Safety

Anthropic

Hybrid remote in San Francisco, CA 94111

\$300,000 - \$450,000 a year

Full-time

- Experience with **prompt engineering**, jailbreak attacks, and other adversarial inputs.
- Full stack **engineering** to build internal tooling.

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25.04.2023

<https://www.indeed.com/>

What research ×

- research
- research **assistant**
- research **associate**
- research **analyst**
- research **coordinator**
- research **nurse**
- researcher
- research **scientist**
- research **and development**
- research **assistant psychology**

Where City, state, zip code, or "remote" 📍

Search

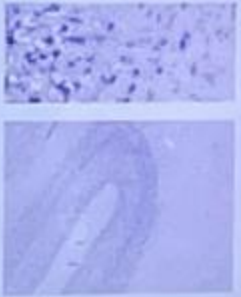
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Strength and pattern of gene expression are usually graded by an expert

- Highly biased
- Inability to extract features
- Necessity for qualified experts
- Long time consumption
- Variability between batches



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- Computer Science
- Life Sciences
- Arts

Special focus on INTERDISCIPLINARITY

Activities

- Research
- Educational
- Entrepreneurship



Recent discoveries highlight the importance of the structure in the learning capabilities of the brain. The paper's focus falls on the role and developing brain model. The paper provides an introduction into the field of the artificial neuron model and an overview of noteworthy model architectures as well as an analysis of their structure. A custom model created by the author is also provided and but current results point in a promising direction.

Introduction

The typical neuron contains a soma (the body of the neuron) which contains the cell nucleus, dendrites (branches of the neuron) connected to the soma, and an axon (a long cellular structure that connects the neuron to other neurons) shown in Figure 1. Neurons generate electrical pulses which travel across the axon and are transferred to neighboring neurons using chemical synapses.

Figure 1: Generation of an action potential in a neuron.

To achieve a simplified model of a neuron, we use a soma (represented by a circle) and an axon (represented by a line). The soma contains a cell nucleus (represented by a smaller circle) and dendrites (represented by lines). The axon is connected to the soma and contains a cell membrane (represented by a line). The axon is connected to other neurons via synapses (represented by lines).



BioMed-Varna Foundation

Research Areas

- Computer Science
- Life Sciences
- Arts

Special focus on INTERDISCIPLINARITY

Activities

- Research
- Educational



Feb 28, 2023



Ученически институт
по математика и информатика



<http://www.math.bas.bg/hssi>



ВСЯКА ЧАСТ ОТ РАБОТАТА СЕ ПРЕДСТАВЯ ОТДЕЛНО
(в индивидуален | колективен план)



ВСИЧКО, КОЕТО СЕ ПРАВИ СЕ РАЗВИВА и ПОДОБРЯВА

ПЪТНА КАРТА ЗА РАЗВИТИЕ НА УСТОЙЧИВА STEAM СРЕДА В МГ – ВАРНА

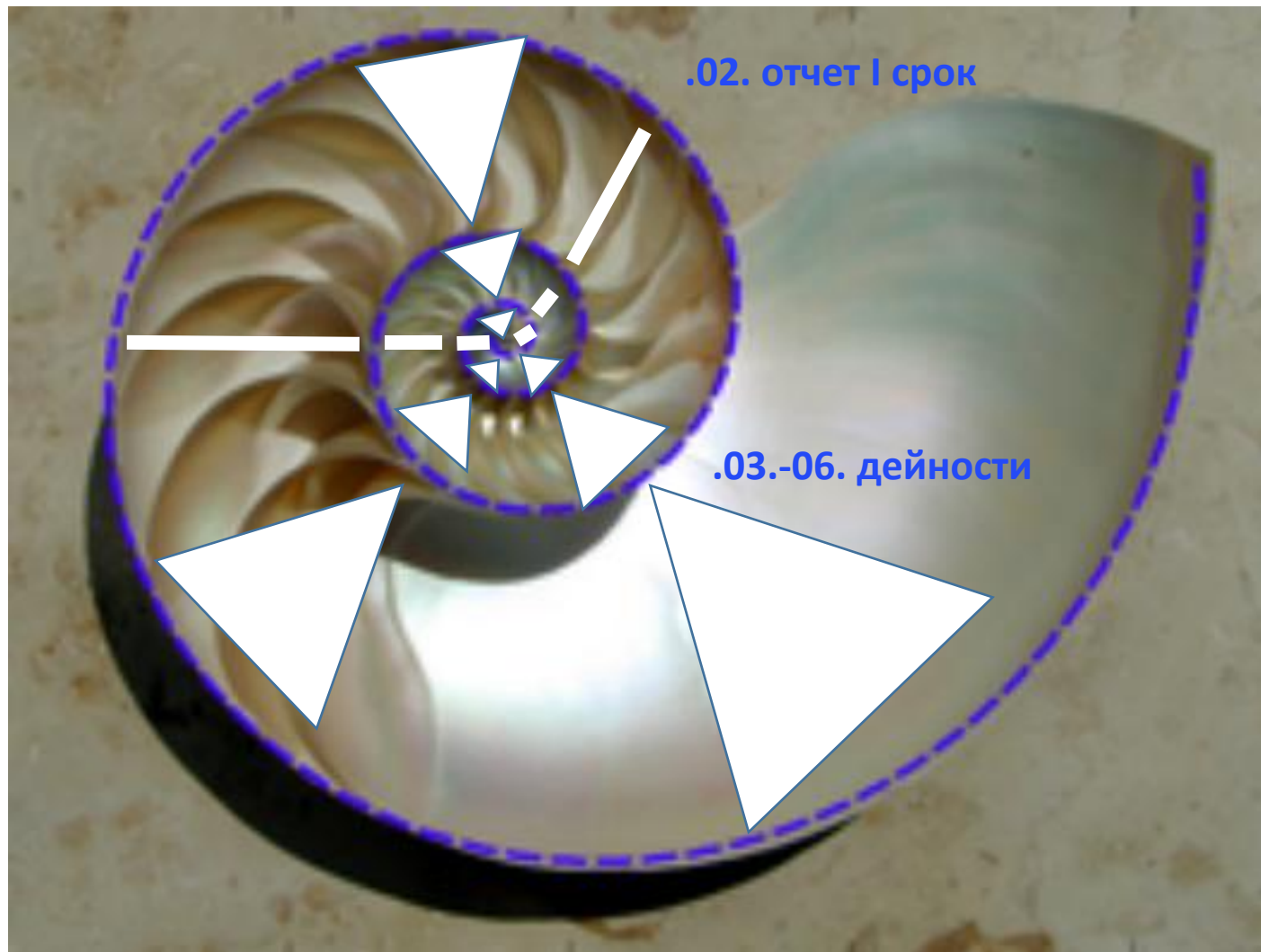
.10.-.01. дейности

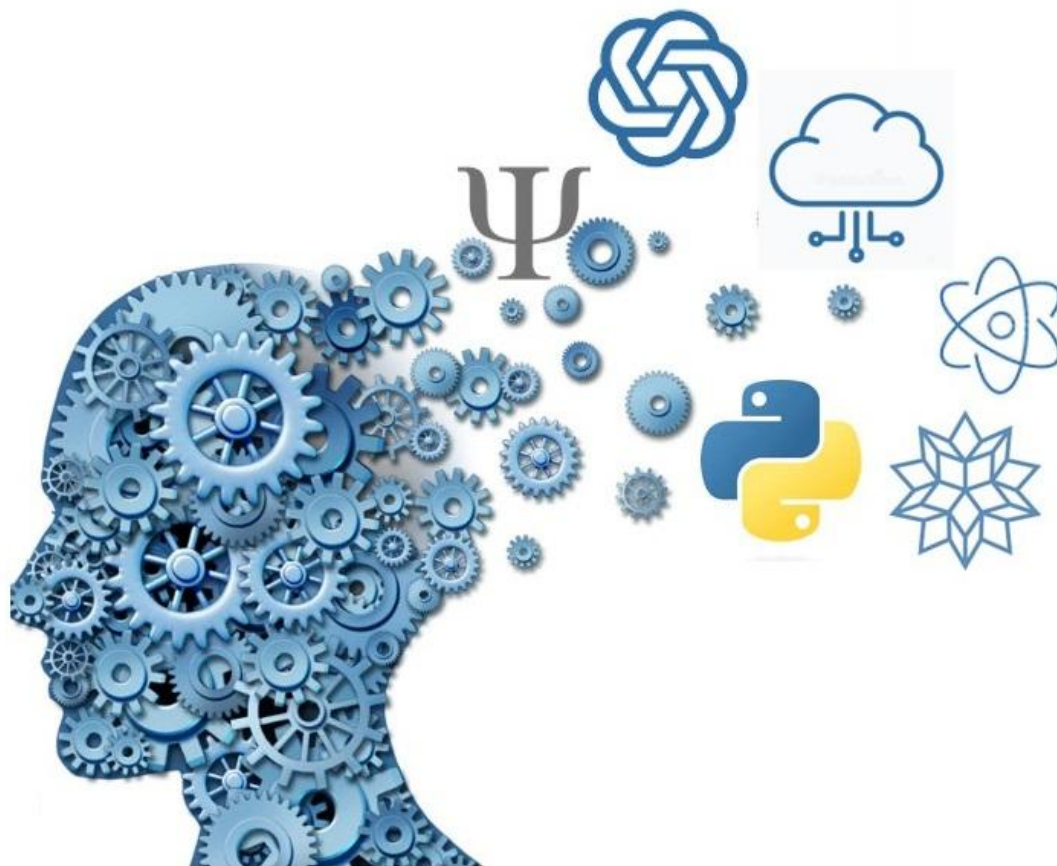
.02. отчет I срок

.09. планиране

.03.-.06. дейности

.07.-.08. анализ КИ





COMPUTATIONALS for PSYCHOLOGISTS | NEUROSCIENTISTS

Galina Momcheva, 2023



Протеини

- Първична структура – полипептидна верига, изградена от 20 вида аминокиселини;
- Вторична – спирализация –
 - α -спирални и β -слоеве
- Третична – сложна структура, която се отнася до пространственото подреждане на цялата молекула и включва всички видове взаимодействия (водородни, йонни, хидрофобни, дисулфидни)
- Четвърта – структура, която се отнася до взаимодействието между няколко полипептидни ланета



IN SILICO LIFE SCIENCES

Stoyan Pavlov представя

RNA

DNA

protein

BioMed-Varna IN SILICO LIFE SCI... X

(12)

- Anton Andonov
- Galina Teodosieva
- Hristian Hristov
- mohamed fakredine
- Rumen Filkov
- Stoyan Pavlov
- Stoyan Pavlov Презентация
- theliazeln
- Trifon Chervenkov

na IN SILICO LIFE SCIENCE

Вдигане на ръка

Stoyan Pavlov представя

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Reshaping the media value chain through responsible and innovative uses of data

Audio/Voices/Music from Varna + Sensing the Beat of Smart Cities



27 Jan, 2022





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ФОРУМ

ИНОВАТИВНАТА ОБРАЗОВАТЕЛНА СРЕДА ПРЕЗ ПРИЗМАТА НА ЕМОЦИОНАЛНАТА ИНТЕЛИГЕНТНОСТ И ИЗКУСТВЕНИЯ ИНТЕЛЕКТ

Галина Момчева, КОМПЕТЕНТНОСТИ, УМЕНИЯ И ИЗКУСТВЕН ИНТЕЛЕКТ, 1 септ. 2023



МЕЖДУНАРОДЕН
ОБРАЗОВАТЕЛЕН
ФОРУМ

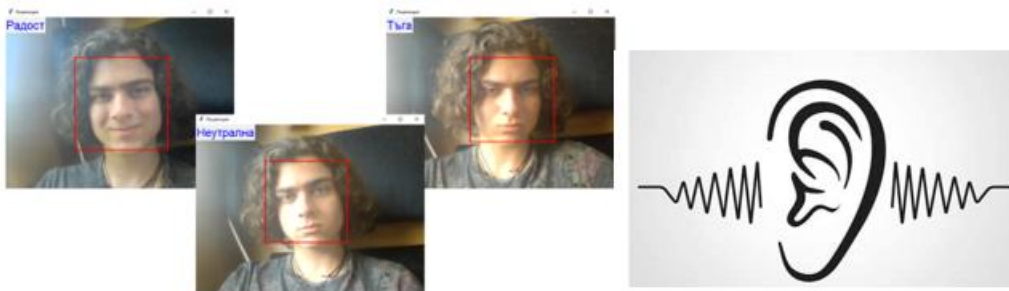
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ИНОВАТИВНАТА ОБРАЗОВАТЕЛНА СРЕДА ПРЕЗ ПРИЗМАТА НА ЕМОЦИОНАЛНАТА ИНТЕЛИГЕНТНОСТ И ИЗКУСТВЕНИЯ ИНТЕЛЕКТ

СЕСИЯ УЧАЩИТЕ ВЪВ ВАРНА ПРЕДСТАВЯТ



ЛИЦЕМОЦИЯ

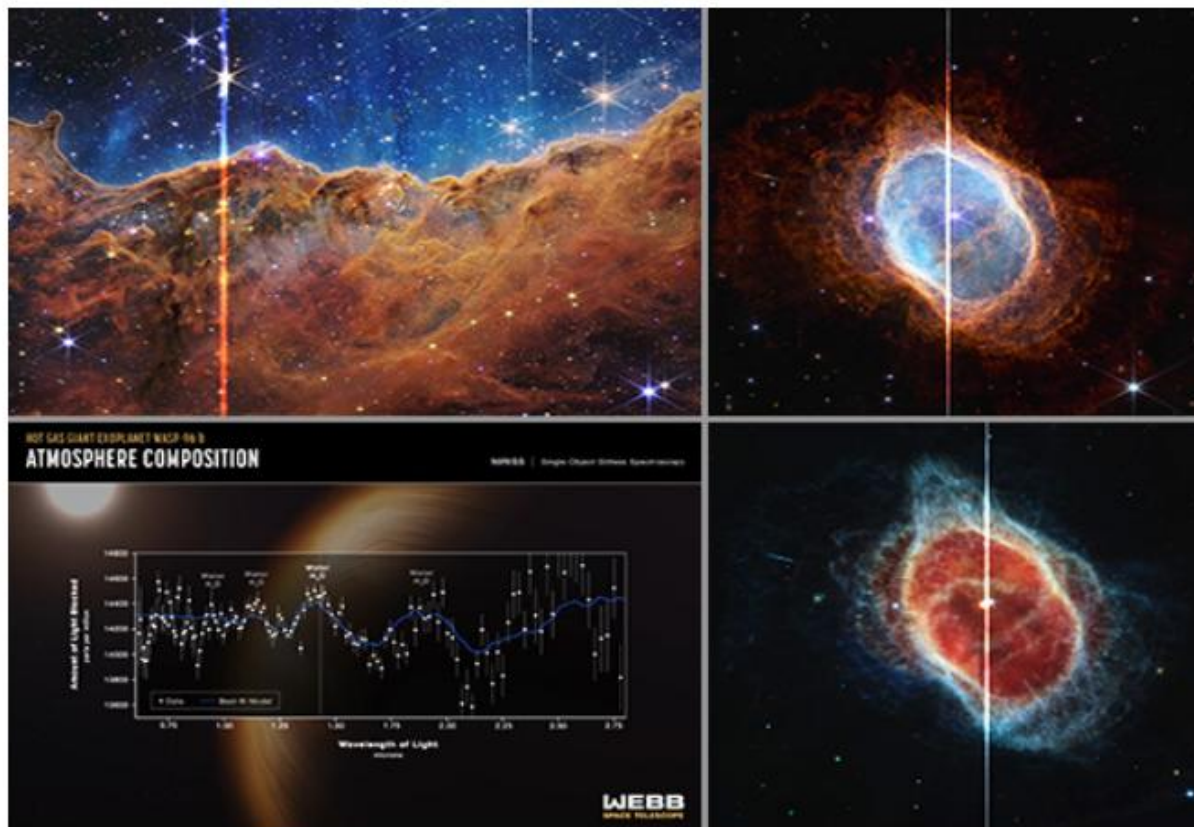
Константин Томов
МГ „Д-р Петър Берон“, гр. Варна
Ръководител: Галина Момчева



NASA Webb's First Full-Color Images, Data Are Set to Sound

For Release: August 31, 2022

NASA/STScI



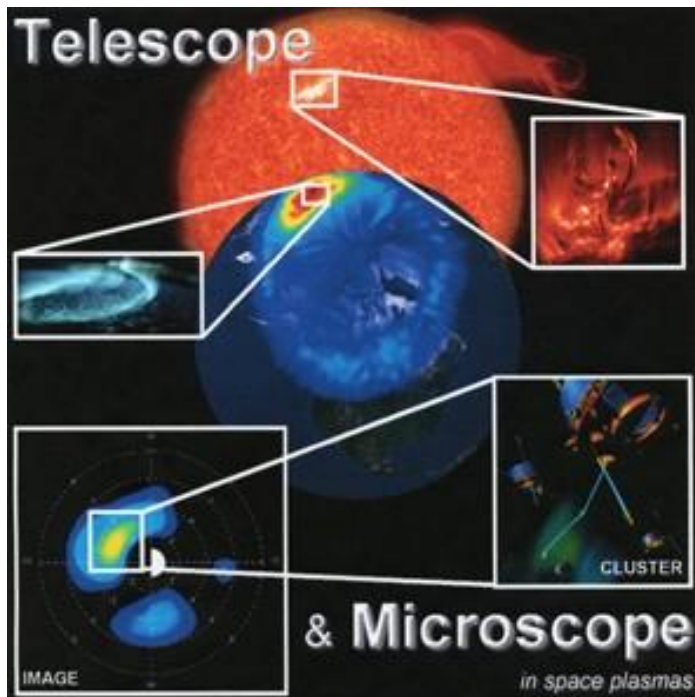
[Top Left] Carina Nebula, [Top Right] Southern Ring Nebula (NIRCam),
[Bottom Left] WASP-96 b, [Bottom Right] Southern Ring Nebula (MIRI)

Sonification Credit: NASA, ESA, CSA, STScI, and Kim Arcand (CXC/SAO), Matt Russo & Andrew Santaguida (SYSTEM Sounds), Quyen Hart (STScI), Claire Blome (STScI), and Christine Malec (consultant).
Image Credit: NASA, ESA, CSA, and STScI



ПРЕДЛОЖЕНИЯ ЗА ОБУЧЕНИЕ НА УЧИТЕЛИ 2023-2024

- КОЛАЖИ И КОЛАЖНИ ТЕХНИКИ
- РАЗВИТИЕ НА УМЕНИЯ ЗА УЧЕНЕ – **КАРИЕРНИ КОНСУЛТАЦИИ**
- ИЗКУСТВЕН ИНТЕЛЕКТ В ОБРАЗОВАНИЕТО
- ОРГАНИЗИРАНЕ И ПРОВЕЖДАНЕ НА ОБРАЗОВАТЕЛНИ СЪБИТИЯ
- STE(A)M – СТРАТЕГИИ, ПОЛИТИКИ, МЕТОДИКИ, ПРАКТИКИ
- ДИГИТАЛНА КОМПЕТЕНТНОСТ И ИЗКУСТВЕН ИНТЕЛЕКТ
- МЕТОДИЧЕСКИ НАСОКИ ПО „КОМПЮТЪРНО МОДЕЛИРАНЕ“ 3.- 4. КЛАС
- РАЗРАБОТКА НА КОМПЮТЪРНИ АНИМАЦИИ СЪС SCRATCH ЗА 3.- 4. КЛАС
- РАЗРАБОТКА НА КОМПЮТЪРНИ АНИМАЦИИ СЪС SCRATCH ЗА 3.- 4. КЛАС
- МЕТОДИЧЕСКИ НАСОКИ ЗА ОБУЧЕНИЕТО ПО КМИТ
- ПРОГРАМИРАНЕ НА PYTHON ЗА НАУЧНОИЗСЛЕДОВАТЕЛСКИ ГРУПИ
- STEAM МЕТОДИКА ЧРЕЗ РАЗРАБОТКА НА ПРОЕКТ
- ДИЗАЙН МИСЛЕНЕ ЗА ИНФОРМАТИЦИ
- МЕТОДИКА НА ОБУЧЕНИЕТО СЪС STEAM



ЕКСКЛУЗИВНО за МГ STEAM центъра
31 май 2023 г. 11:30 Актова зала

публична лекция за ученици и учители
НАНОСВЯТ



Проф. инж. Цанка Дикова, д.т.н.
 Факултет по Дентална медицина
 Медицински университет - Варна

WEBB TELESCOPE'S FIRST COSMIC TARGETS

First light on **July 12, 2022 14:30 UTC**

Read how Webb's first light will explore the universe's most distant galaxies, the first stars, and the first galaxies to form.

Eta Carinae Nebula
 The Eta Carinae Nebula is one of the largest and brightest nebulae in the sky. It is a complex of gas and dust, and is the source of the powerful stellar winds that shape the nebula's structure.

WASP-96b (gas giant)
 WASP-96b is a gas giant planet orbiting a yellow dwarf star. It is the first planet discovered by the TESS mission.

Southern Ring Nebula (NGC 3132)
 The Southern Ring Nebula is a planetary nebula, a glowing shell of gas and dust that is ejected from a star in the final stages of its life.

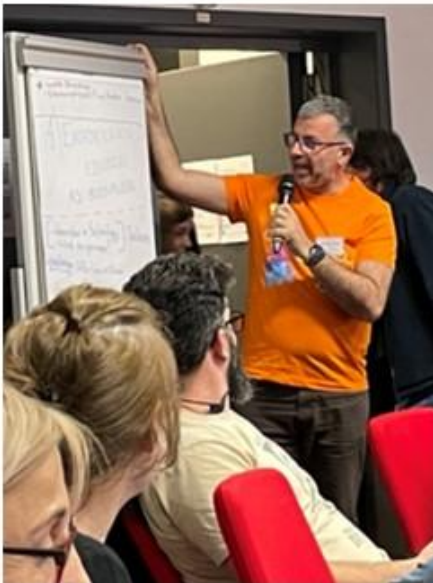
Stephan's Quintet (ICG 92)
 Stephan's Quintet is a group of five galaxies that are interacting with each other. It is one of the closest examples of galaxy interactions.

SMACS-J0723.3-7327
 SMACS-J0723.3-7327 is a galaxy cluster, a group of galaxies that are bound together by gravity.

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7-22 October 2023

ПОСЛАНИЕ; СПОДЕЛИ ПРАКТИКИ; МНЕНИЕ; РЕЗУЛТАТИ; ДА НАМЕРИ ПАРТНЬОРИ



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31 ОКТОМВРИ 2019 | 14:00 - 17:00 ч.

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НОВИТЕ БУДИТЕЛИ : ВАРНА – ГРАД НА ЗНАНИЕТО

Съвместна експозиция по повод 1 ноември 2019 на Научноизследователския институт на Медицински университет – Варна и Варненския свободен университет



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Експозицията гостува във Варненски свободен университет (до 23.11.19) и в Медицински университет - Варна (от 25.11.19)

DNA Day BG 2021 | Ден на ДНК 2021

24.04 | 11 - 17 h
Facebook LIVE

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ВАРНА - ГРАД НА ЗНАНИЕТО

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23, 24 04 2021 с/н



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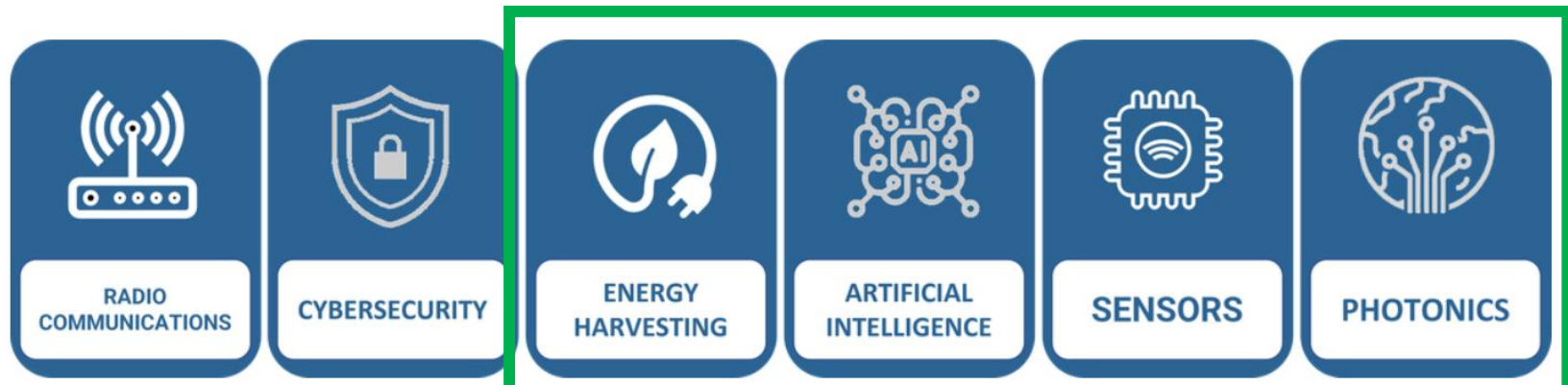
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Re-strengthening the electronics value chain in Europe!

The ideal project should be an advanced technology solution **demonstrating** a use case in a less digitized industry, that is a technology solution to a challenge that has been identified in said industry. The technology solution should include a prototype (demonstrator) of a **microelectronics system**.

Solutions could include one or several of below listed technologies:





MOORE'S LAW AND MOVING BEYOND SILICON: THE RISE OF DIAMOND TECHNOLOGY



John Bardeen, William Shockley and Walter Brattain, the inventors of the transistor, 1948 -- the birth of Silicon Valley.  AT&T via Wikimedia Commons



HOW DIAMONDS MAY USURP SILICON IN THE RACE TO
TECHNOLOGY'S FUTURE

THE FUTURE OF DEEP LEARNING IS PHOTONIC

Computing with light could slash the energy needs of neural networks

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Volume 7, Issue 3

September 2020

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Photonic tensor cores for machine learning F FREE

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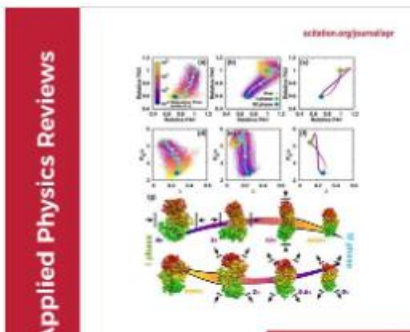
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Applied Physics Reviews 7, 031404 (2020)

<https://doi.org/10.1063/5.0001942> [Article history](#)



<https://pubs.aip.org/aip/apr/article/7/3/031404/998338/Photonic-tensor-cores-for-machine-learning>



PHOTONIC NEURAL NETWORKS, Petko Elenkin





ФОНДАЦИЯ BIOMED-VARNA

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Април 14, 2024 - НЕДЕЛЯ

<https://worldquantumday.org/upcoming-events>

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World Quantum Day is an annual celebration promoting public awareness and understanding of quantum science and technology around the world.

CHECK THE EVENTS >>

WORLD QUANTUM DAY >>




Galina Momcheva


gmomcheva@gmail.com

+359 888 793785 /Viber/Telegram/WhatsApp

- ★ **Head of BioMed-Varna Foundation**
- ★ **Member of Scientific Research Group**
ADVANCED COMPUTATIONAL BIOIMAGING
Research Institute in Medical University, Varna

July 12, 2023

 gmomcheva

 BiomedVarna


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0000-0003-0726-2022](https://orcid.org/0000-0003-0726-2022)

 galina-momcheva-1a612817

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