First steps in AI, 2022 edition

📅 Friday, June 24th 2022, 10:00 - 12:00
📍 Faculty of Computer Science

Artificial intelligence
at the Faculty of Computer Science Iasi

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Content

Courses

      Undergraduate

      Master

      Doctoral

Projects

      Doctoral students

      Competitions

      ImagoMol

      Collaborations with companies

Artificial Intelligence COURSES

Artificial Intelligence Project Ideas

Courses

Undergraduate studies

1ˢᵗ year

Probabilities and statistics

Probabilities
Random variables
Stochastic processes, Markov chains
Randomized algorithms
Statistical inference

- Data structures
- Algorithms Design
- Programming
- Mathematics – Differential and integral calculus

2ⁿᵈ year

Genetic algorithms

Meta-heuristics for solving optimization problems

Software engineering

Projects in the AI area

- Databases
- Competitive programming
- Graph Algorithms

3ʳᵈ year

Machine Learning

Fundamental concepts
Supervised learning
Unsupervised learning

Neural networks

Feed-forward NNs
Reinforcement learning
Unsupervised learning

Artificial Intelligence

Problem modeling
Constraint satisfaction
Game strategies
Knowledge representation...

Introduction to Mixed Reality

Projects in the AI area

- Probabilistic programming and modeling
- Game Design
- Human-Computer Interaction
- Python programming

Master

FACULTY OF COMPUTER SCIENCE IAȘI

UNIVERSITATEA „ALEXANDRU IOAN CUZA" din IAȘI

Home   Faculty ⌄   Structure ⌄   Degree programs ⌄   Research ⌄

Overview

Undergraduate studies

Master Studies

Doctoral School

Master Studies

Master Studies in Computer Science – full-time studies (with a duration of 3 years, in the Bologna system); the purpose of these programmes is the additional and complementary specialization of the graduates in computer science or in other domains. At present, the Faculty of Computer Science offers the following five master programmes:

- Software Engineering (EN)
- Computational Linguistics (EN)
- Computational Optimization (EN)
- Distributed Systems (EN)
- Information Security (EN)
- Advanced Studies in Computer Science (EN)

Legături Rapide

› Anul Universitar 2020 – 2021

› Orar

› Companii IT @ FII

› Relații internaționale

› ROSE – InFIInit

› Webmail (Studenți)

› Webmail (Profesori)

› Sims Web

https://www.info.uaic.ro/en/degree-programs/

Graduate studies in AI

Professional master

Artificial Intelligence and optimization (former Computational Optimization)

Research master

Advanced studies in Computer Science

Professional master

Computational Linguistics

Master in Artificial Intelligence and Optimization (Computational Optimization)

1st sem

- Special Chapters in Artificial Intelligence
- Advanced Topics in Neural Networks
- Digital Processing of Images
- Advanced Software Engineering Techniques

2nd sem

- Advanced Topics of Machine Learning
- Data Mining
- Nature Inspired Methods
- Computer Vision

3rd sem

- Operational Research
- Big Data Analytics
- Deep Learning with applications in NLP
- Experimental Analysis of Algorithms
- Blockchain - foundations and applications
- System Security and Malicious Systems

4th sem

- Ethics and academic integrity
- Professional/Research Practice
- Dissertation Preparing

Master in Computational Linguistics

Applications of natural language processing

Introduction to computational linguistics

Statistical Natural Language Processing

Speech processing and fuzzy systems

Machine Translation

Special Chapters on Artificial Intelligence

Collaborations - Using artificial intelligence in Medicine

Current Local Projects using AI in Medicine

Robotics in medicine - Past, present and future

Content

CLEF
INITIATIVE

revert

Normal ECG
Atrial fibrillation

kaggle

A platform for predictive modeling competitions.

"We're making data science into a sport."
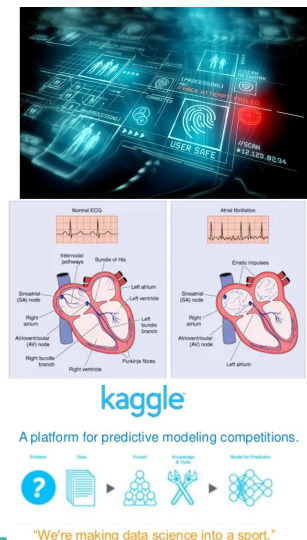
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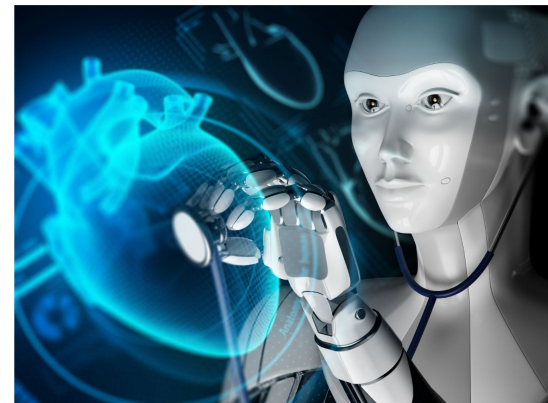
Doctoral

Prof. Univ. Dr. Adrian Iftene
Inteligenţă artificială şi Folosirea tehnologiilor noi în îmbunătăţirea calităţii vieţii

Prof. Univ. Dr. Dan Cristea
Sisteme expert şi prelucrarea limbajului natural

Prof. Univ. Dr. Henri Luchian
Metode de optimizare inspirate din natură

Projects - Doctoral students

Crack detection - Georgiana Coca

Fake news - Ciprian Cusmuliuc

Real-time monitoring of patients using IoT - Camelia Milut

Neural networks - Cristian Simionescu

Detecting Early Alzheimer's - Ingrid Stoleru
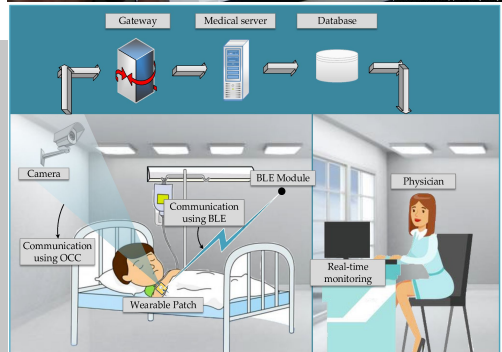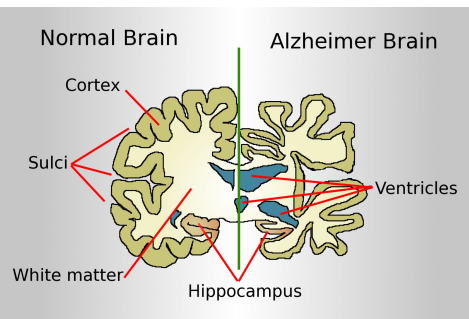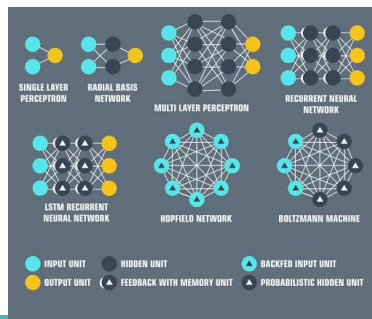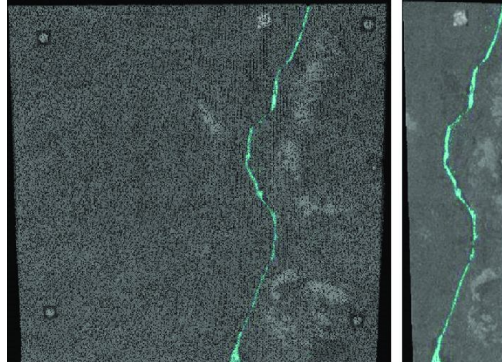
Projects - Competitions

ImageCLEFmed Tuberculosis
https://www.imageclef.org/2021/medical/tuberculosis

SemEval - International Workshop on Semantic Evaluation

https://semeval.github.io/

Kaggle Competitions https://www.kaggle.com/competitions

AI Crowd Challenges

https://www.aicrowd.com/challenges/addi-alzheimers-detection-challenge
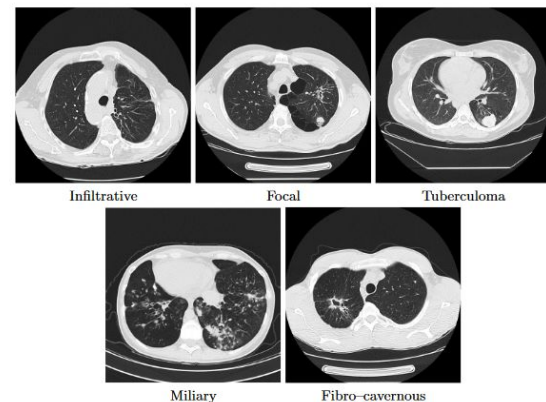
Projects - ImagoMol - REVERT

Projects - ImagoMol - Hack4Life, Be a Stroke hero

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Hack4Life, Be a Stroke hero, February 15, 2020

IMAGO-MOL Cluster and the Faculty of Informatics from "Al.I.Cuza" University of Iasi organize **Hack4Life, Be a Stroke hero**, a hackathon dedicated to developing a fast stroke recognition application and an alert program and stroke registration to the emergency units in the region.

We are looking for volunteer programmers, willing to join us in this action.

If you want to contribute to the development of an application that can save lives, we expect you on **February 15, 2020, starting at 9.00 am**, in Room C309 from the Faculty of InformaticS at the University "Al.I.Cuza" in Iasi.
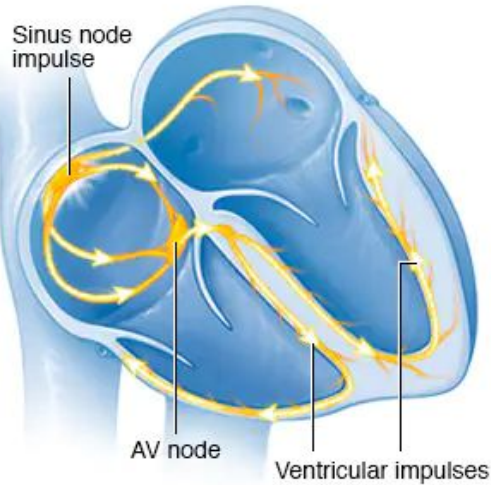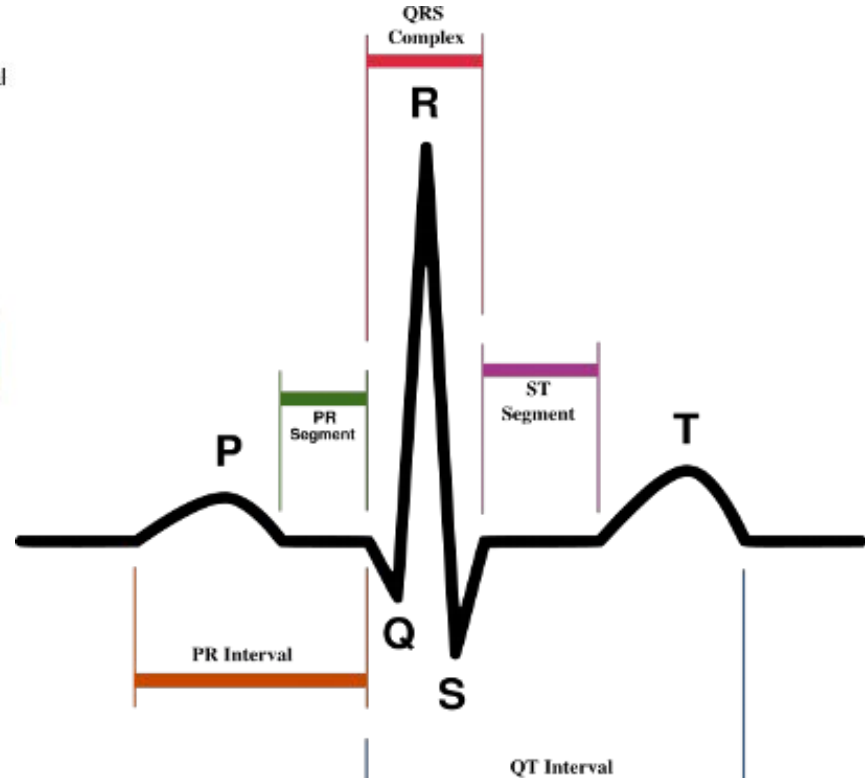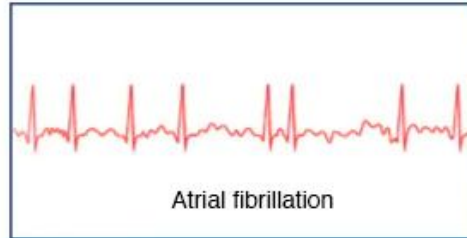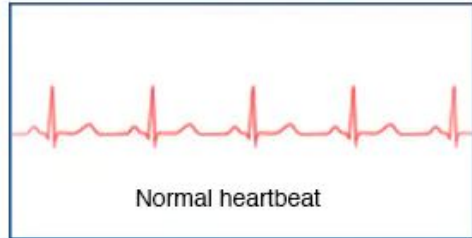
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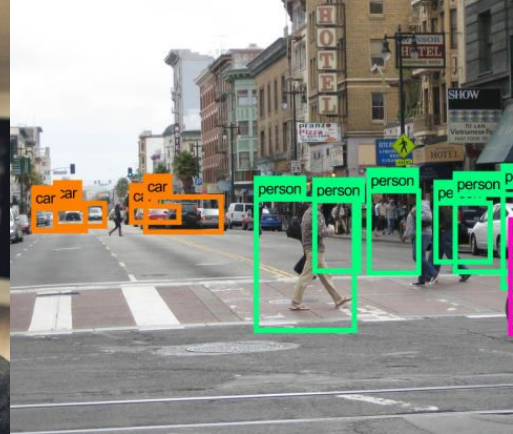### News

Presentation of the REVERT

Projects - Atrial Fibrillation

Normal heart rhythm

Sinus node impulse
AV node
Ventricular impulses

Normal heartbeat

Atrial fibrillation (AFib)

Abnormal impulse

Atrial fibrillation

QRS Complex
R
PR Segment
ST Segment
P
T
PR Interval
Q
S
QT Interval

AR/VR Projects

THANK YOU!