

In atenția studenților de la specializările IA, I, IAG, MI

Sunteți invitați să va înscrieți la cursurile din programul

“Joia după-masă la facultate”!

Cine susține cursurile?

Specialiștii din cadrul companiilor IT:

1. SIEMENS INDUSTRY SOFTWARE
2. TALENTING SOFTWARE
3. SIEMENS S.R.L.

În ce perioadă?

Semestrul al 2-lea al anului universitar 2022-2023, joia după-masă.

Termen de înscriere: 15.01.2023

Cum aplici?

Trimite un email cu **CV-ul** și **titlul cursului** la care dorești să te înscrii, la adresa de email a firmei.

1. SIEMENS INDUSTRY SOFTWARE

Email pentru înscrieri: roxana.spinu@siemens.com

Locație: Bld. Gării, nr. 13A, Clădirea Nine, Brașov

Durată: 10 cursuri

Title: Structural Optimization Using Genetic Algorithms

Siemens Industry Software – Curious Minds Spring School 2023

Description:

The manufacturing field faces the problem of optimizing the amount of material used for packing their products. Architects and engineers in their day-to-day work need to reconsider again and again different scenarios to find the best solution while designing structures. Today the optimization calculations are done manually, and the process ends up most of the time with a compromise. With manual calculations it is extremely hard to design both a resistant and low-priced structure. In the last few years, **Artificial Intelligence** techniques showed remarkable improvements in optimization problems, helping professionals in their day-to-day work.

In the case of optimization of physical structures, the answer came quickly using **genetic algorithm** methods.

The usage of genetic algorithms in structural optimization helps with:

- a qualitative improvement of components
- a significant reduction of material and production costs
- a shorter time required in product design process.

The scope of the proposed project is to develop genetic algorithms based on mathematical methods that solves the structural optimization problems satisfying multiple design constraints. At present, the tendency is to create a structure with more support than needed just to guarantee safety. Unfortunately, this implies a greater weight on the structure and greater costs for building and shipping. The project aims to provide solutions that optimizes the balance between costs, structural performance, reliability, and safety.

Working on this project exposes the software developers to concepts such as: *finite element analysis, finite element method, structural optimization, meshing, constraints, forces, space geometry, structural optimizations, simulations, and Genetic Algorithms.*

Using **Project Chrono** - an open-source C++ library for physics simulations - software developers will be able to **test** the evolutionary algorithm and graphically **visualize** the obtained results.

2. TALENTING SOFTWARE

Email pentru înscrieri: info@talentingsoftware.ro

	<p>Talent nnovators</p>
<p>Programming in C# for beginners</p> <p>We will learn together the basics of C# and apply them in small projects. What's the best approach to resolve some problems, tips and tricks and how important is to have a clean code.</p>	<p>CURSUL DE JOI</p> <p>We are organizing a new edition. What course do you choose?</p>
<p>Angular. From basic web to full projects.</p> <p>We will start with web basics and apply them in creating web pages. After the base is settle, we will start learning angular: components, services, styling and many more.</p>	
<p>APPLY NOW</p> <p>We invite you to send us your CV on info@talentingsoftware.ro until 7 november 2022.</p> <p>www.talentingsoftware.ro</p>	
	<p>Contact</p> <p> Email: info@talentingsoftware.ro  Phone : (0368) 63 00 59  Ionescu Crum 1, Braşov</p>

3. SIEMENS S.R.L.

Denumire curs: Inteligența Artificială - Revoluționarea Imagisticii Medicale

Email pentru înscrieri: **izabella.mathe.ext@siemens.com**