



CURRICULUM VITAE

Date personale:

Nume, Prenume: **Cazacu Paul Răzvan**

Titlu academic: Șef lucrări

Departament: Inginerie Industrială și Management

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Domenii de interes (maximum 5 domenii, direcții):

Sisteme CAD/CAE

Calcul structural / Calcul element finit

Optimizare structurală / Algoritmi Genetici

Activitate de cercetare:

1. Proiecte de cercetare (maximum 3 proiecte)

PN-III-P2-2.1-PED-2016-0142 - Optimized electrochemical anodization technology for development of nanostructured TiO₂ layers on complex surfaces of biomedical implants – NanoBio EA, Membru, 2017-2018

2. Lucrări publicate in extenso (maximum 5 lucrări)

[1] **Cazacu, R.**, Grama, L., Steel truss optimization using genetic algorithms and FEA, Proceedia Technology, Volume 8, 2013, pp 339-346.

[2] **Cazacu, R.**, Grama, L., Overview of structural topology optimization methods for plane and solid structures, Proceedings of the Annual Session of Scientific Papers "IMT Oradea", Vol. 13(23), Nr. 1, 2014, pp 85-90.



[3] **Cazacu, R.**, Grama, L., Mocian, I., An OOP MATLAB Extensible Framework for the Implementation of Genetic Algorithms. Part I: The Framework, Procedia Technology, Vol. 19, 2015, pp 193-200.

[4] **Cazacu, R.**, Comparative Study between the Improved Implementation of 3 Classic Mutation Operators for Genetic Algorithms, Procedia Engineering, Vol. 181, 2017, pp 634-640.

[5] Russu O. M., Strnad G., Jakab-Farkas L., **Cazacu R.**, Feier A., Gergely I., Trambitas C., Petrovan C. – Electrochemical synthesis of nanostructured oxide layers on threaded surfaces of medical implants, Rev. Chim., vol. 69, no. 7, pp. 1636-1639, 2018.