

LISTĂ DE LUCRĂRI

(a) Lista celor maximum 10 lucrari considerate de candidat a fi cele mai relevante pentru realizările profesionale proprii

Ris 1- Alexandru, T. G., & Pupăză, C., *Machine learning generalization of lumped parameter models for the optimal cooling of embedded systems.* Studies in Informatics and Control, Volume 29(2), 2020 pp. 169-177, ISSN: 1220-1766, **WOS: 000573723600003, FI: 2.102 (2019)**

Ris 2- Mantea, T. A., Alexandru, T. G., Pupăză, C., & Nicolescu, A. F. - *Software Integration for Heat Transfer Simulation of Electronic Circuits.* Studies in Informatics and Control, Volume 25(1), 2016, pp. 69-76, ISSN: 1220-1766, **WOS: 000372945700008, FI: 1.02 (2017)**

Vis 1 – Alexandru, T. G., & Pupăză, C. (2019, June). *An Approach for Estimating the Total Heat Transfer Rates in Embedded Systems.* In 2019 11th International Conference on Electronics, Computers and Artificial Intelligence (ECAI) (pp. 1-6). IEEE, **WOS: 000569985400103**

Vis 2 – Alexandru, T. G., & Pupăză, C. (2018, April). *A Parametric Approach for Filling the Gap between Raw Data and Knowledge Based Engineering in the Aerospace Industry.* In 31st International-Business-Information-Management-Association Conference. ISBN: 978-0-9998551-0-2, **WOS: 000569985400103**

Vi 1- Alexandru, T. G., & Pupăză, C. (2021, May). *The development of PID temperature controllers based on FEM thermal analysis* In 2021 UNIVERSITARIA SIMPRO (pp. 1-8). MDP Sciences, DOI 10.1051/mateconf/202134206008

Ris 3- Alexandru T.G., Pupăză, C. - *Reccurent Neural Network for predicting time step bisections in structural dynamics,* U.P.B. Sci. Bull., Series D, Volume 83, Issue 1, 2021, pp. 169-180, ISSN: 1454-2358, Scopus.

Ris 4- Alexandru, T.G., Pupăză, C. - *Eco-Design of Heat Sinks based on CAD/CAE Techniques,* Proceedings in Manufacturing Systems, ISSN 2067-9238, Volume 12, Issue 1, pp 9-16, ProQuest

Vn 1 - Alexandru T. G., Pupăză, C. - *Concept cibernetice integrat pentru sincronizarea experimentelor cu simularea asistată.* Al XV - lea simpozion național studentesc „Student, Știință, Societate” Petroșani, 28-29 Aprilie 2017, ISSN 1843-1585, Petroșani, România, pp. 11-18

Ris 5- Alexandru, T. G., & Bucureșteanu, A - *Design of a force feedback controller for a pneumatic gluing station by employing fem simulations.* Annals of The University of Petroșani, Volume 23, 2021, pp. 1-8, ISSN: 2247-8604, DOAJ

Ris 6- Nicolescu A.F., Ilie F.M., Alexandru T.G. - *Forward and inverse kinematics study of industrial robots taking into account constructive and functional parameter's modeling,* Proceedings in Manufacturing Systems, ISSN 2067-9238, Volume 10, Issue 4, pp. 157-164, 2015, ProQuest.

(b) Teza sau tezele de doctorat;

T1. T.G. Alexandru, *Machine learning generalization of the embedded systems cooling workflows for facilitating the smart retrofitting of computer control units employed in industrial engineering environments,* CSUD UPB no. 782 from 03.12.2021, University Politehnica of Bucharest.

(c) brevete de inventie si alte titluri de proprietate industrială și intelectuală**(d) carti si capitole în carti;****(e) (e) articole / studii in extenso, publicate în reviste din fluxul științific internațional principal;**

Ris 7- Alexandru T. G., Verdet B., Pupăză, C., Nicolescu A.F. - *New FEM approach including technological patterns for automotive spot welding parts,* Proceedings in Manufacturing Systems, ISSN 2067-9238, Volume 14, Issue 4, 2019, pp. 163-168, ProQuest

Ris 8- Ilie, F. M., Alexandru T. G., *The limiting aspects of product design software applied to the virtual prototyping of car body lifting end effectors.* Annals of the University of Petroșani, ISSN 1454-9166, Volume 21, Issue 1, 2019, pp. 59-64, DOAJ

Ris 9- Rusu R., Alexandru T.G., Manole M., *A two-stage macro based approach for developing aircraft engine*

components concessions based on surface morphing technologies. Annals of the University of Petroșani, ISSN 1454-9166, Volume 20, Issue 1, 2018, pp. 79-88, DOAJ

Ris 10- Alexandru, T.G., Mantea, Th.A., Pupăză, C., Velicu, S. - *Heat Transfer Simulation for Thermal Management of Electronic Components*, Proceedings in Manufacturing Systems, Volume 11, Issue 1, 2016, ISSN 2067-9238, pp.15-26, ProQuest

Ris 11- Alexandru T.G., Ulmeanu D., Avram C.G -, *Optimization approach for multi-layout continuous casted billet storage and inspection warehouse*, Proceedings in Manufacturing Systems, ISSN 2067-9238, Volume 9, Issue 4, pp. 205-214, 2014, ProQuest

Ris 12- Alexandru T.G. - *Telemonitorizarea sistemelor de producere a energiei utilizând surse regenerabile*, Revista Română de Informatică și Automatică, Volume 24, Issue 2, pp. 5, Emerging Sources Citation Index

(f) publicatii in extenso, aparute în lucrari ale principalelor conferinte internationale de specialitate;

Vi 2- Alexandru, T. G., & Verdete B.M. (2020, November). *Knowledge-based Engineering Approach for Facilitating Weld Design with the Support of Machine Learning* In 36th International Business Information Management Association Conference (IBIMA), ISBN: 978-0-9998551-5-7

(f) alte lucrari si contributi stiintifice sau, dupa caz, din domeniul creației artistice

E1 - Alexandru T.G., CISA Seminar - *An approach for facilitating thermal design through the use of intelligent systems for Industry 4.0*, Artificial Intelligence and its Applications Institute, The University of Edinburgh, U.K., <https://www.edinburgh-robotics.org/events/cisa-seminar-approach-facilitating-thermal-design-through-use-intelligent-systems-industry-40>

Pn1 – Contract Axa 1 POC, Nr. Inregistrare electronica 120353, Nr. Contract 402/390078, Data contract 24.12.2021, Denumire Proiect: *Tehnologii inovative pentru prelucrarea si testarea materialelor avansate din domeniul aerospacial, calitatea de coautor.*

Tudor George Alexandru,