

Autorul tezei de abilitare: Conf. dr. ing. Camil-Traian-Sorin LANCEA

Titlul tezei de abilitare: Creșterea eficienței fabricației prin crearea unor sisteme software dedicate și soluții pentru valorificarea superioară a materialelor

Domeniul: Inginerie industrială

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31. Ivan, N. V., Lancea, C., Ivan C., - Capp Phase, a very Important Bridge in CAD and CAM Integration, Proceedings of the 7th International Conference Modern Technologies in Manufacturing 6th – 8th October 2005, Universitatea Tehnică din Cluj-Napoca, p.9-14, ISBN 973-9087-83-3

ALTE LUCRĂRI / REALIZARI RELEVANTE

a. GRANTURI / PROIECTE CÂȘTIGATE PRIN COMPETIȚIE SAU CONTRACTE CU MEDIUL SOCIO-ECONOMIC DIRECTOR/RESPONSABIL

1. *Microstructural Analyses on Selective Laser Melted Inconel 718 As-built and Heat Treated*, grant de cercetare și inovare ESTEEM3 din cadrul proiectului Horizon 2020 nr. 823717, anul 2021, valoare: 13.206 Euro – DIRECTOR;

2. *Researches about the Corrosion Resistance of Different Materials used for Building Sustainable Energy Systems*, Grant internațional de cercetare SFERA nr. P13042500040296, European Commission grant agreement nr. 228296, anul 2013, , valoare:12.003 Euro – DIRECTOR;
3. *Învățarea și înțelegerea tehniciilor de fabricație prin Topire Selectivă cu Laser (SLM) cu scopul dobândirii competențelor necesare exploatarii mașinii SLM250HL la un nivel avansat*, proiect UEFISCDI - PNIII, număr contract:PN-III-P1-1.1-MC- 2017- 0391 20172018 Nr ani derulare:1, valoare: 3.610 Euro – DIRECTOR;
4. *Software de estimare a Costurilor pentru Produsele Industriale cu Grad Înalt de Personalizare Faza I - Modulul timpi de fabricație*, Proiect de cercetare CNCSIS nr. A1/GR106-19.05.2006, Tema 8, cod CNCSIS 428 – DIRECTOR ȘTIINȚIFIC
5. *Sisteme CAD/CAM pentru strunjire și frezare – faza a II-a, Modulul CAM*, Grant CNCSIS nr. 33253/2003, Tema 12, Cod CNCSIS: 609 – DIRECTOR TEHNIC

b. GRANTURI / PROIECTE CÂȘTIGATE PRIN COMPETIȚIE SAU CONTRACTE CU MEDIUL SOCIO-ECONOMIC MEMBRU ÎN ECHIPĂ

1. *Microstructural studies on Selective Laser Melting Ti6Al4V heat treated using Concentrated Solar Energy – MiSLMCoSE*, grant de cercetare și inovare ESTEEM3 din cadrul proiectului Horizon 2020 nr 823717, anul 2020, valoare: 20.652,55 Euro;
2. *Using Concentrated Solar Energy for Heat Treatment of Selective Laser Melted Ti6Al4V* Grant internațional de cercetare SFERA nr. P1702060268, anul 2017, valoare:5.680 Euro;
3. *Behaviour and Lifetime Prediction of Materials for Renewable Energy Systems under Accelerated Reliability Testing*, Grant internațional de cercetare SFERA nr. P12030800040257, European Commission grant agreement nr. 228296, anul 2012, valoare: 12.832 Euro;
4. *Optimizări, testări și execuție repere din industria auto*, Grant CNCSIS cu terți nr. 16830/30.10.2012, anul 2012 ;
5. *Sisteme expert de optimizare a proceselor tehnologice (ESOP-Expert System for Optimization of Technological Processes)*, Grant PNII-P4 Complex (PC)/PNII-P4

(Parteneriate în domenii prioritare) Nr. 71-133/18.09.2007, întindere pe anii 2007-2010;

6. Platformă pentru *Dezvoltări Tehnologice Inovative (PlaDeTino)*, Grant CNCSIS tip Platforme/laboratoare de formare și cercetare interdisciplinară, Contract Nr.13/2006/ MEdC, cod CNCSIS 78, cu distincția *Premiul pentru cercetare de excelență* acordat de Universitatea Transilvania din Brașov, anul 2006;
7. *Managementul informațiilor și dezvoltarea de software autohton în ingineria produselor conform conceptului de productică*, Grant CNCSIS, Tema nr.5, Ordinul MEC nr. 3288/2005, cod CNCSIS: 1021, anul 2005;
8. *Rețea de fabricație inovativă (IMAM – Innovative Manufacturing Network)*, Grant CNCSIS de tip CEEEX, nr. 41 / 07.10.2005 (înregistrat la MEdC), nr. 54 / 3.10.2005 (înregistrat la Universitatea „TRANSILVANIA” din Brașov) în colaborare cu Universitatea Tehnică din Cluj-Napoca, Universitatea „Politehnica” din Timișoara, Universitatea de Medicină și Farmacie Iuliu Hațieganu din Cluj-Napoca, anul 2005;
9. *Sisteme CAD/CAM pentru strunjire și frezare – faza I*, Modulul CAD, Grant de cercetare științifică CNCSIS Nr. 33459/2002 - tema 11; Cod CNCSIS: 614, anul 2002;
10. Aplicarea conceptului de inginerie simultană în proiectarea tehnologică și integrarea cu proiectarea produselor. Grant de cercetare științifică CNCSIS Nr. 33459 / 2002, cod: 95, tema Nr.24, anul 2002;
11. *Centru de evaluări economice și dezvoltări privind tehnologiile informatizate* Grant CNCSIS cu Banca Mondială nr. 12838/1998 (finanțare începută în 2000, contract finalizat în 2002), cod CNCSIS: 533, anul 2002;
12. *Aplicarea conceptului de inginerie simultană în proiectarea constructivă, tehnologică și fabricație*, Contract de cercetare științifică Nr. 4133 / 2001, tema Nr. 22, anul 2001;
13. *Realizarea și experimentarea unui nou tip de portsculă destinată prelucrărilor cu avansuri circulare*, Grant CNFIS (contract aferent anului 1998 încadrat în programul general intitulat, Metodă de reglare, portsculă și pachet de programe privind proiectarea ansamblului sculă - potsculă aferente prelucrării cu avansuri circulare), faza II-a. Contract de cercetare științifică Nr. 38 / 1998-tema 9, Cod CNFIS: 2MU201108, anul 1998;

14. *Particularitățile prelucrărilor cu avansuri circulare, soluții tehnice și pachete de programe aferente* (contract aferent anului 1997 încadrat în programul general intitulat, Metodă de reglare, potrsculă și pachet de programe privind proiectarea ansamblului sculă - potsculă aferente prelucrării cu avansuri circulare), faza a I-a. Contract de cercetare științifica Nr. 7005 / 1997-tema 3, Cod CNCSU 1330, anul 1997.

c. PRODUSE PROGRAM

1. 2014: Sistemul FASC-2000 (Frezarea Asistată a Suprafetelor Complexe), destinat prelucrării suprafetelor 3D oarecare, prin frezare pe MUCN în 3 axe
2. 2013: FACI-13 - sistem software pentru frezarea CNC a pofilelor închise;
3. 2013: Software de aplicare a conceptului de inginerie simultană la strunjirea CNC a pieselor de tip fitting;
4. 2013: Software de estimare a costurilor produselor cu grad înalt de personalizare. Contract CNCSIS A428/2007;
5. 2012: Sistem CAD/CAPP/CAM pentru modelarea suprafetei fizionomice a grupului de dinți laterali;
6. 2006: Sistemul PASPFiCN-2006 (Proiectarea Asistată a Strategiilor de Prelucrare a Fitingurilor pe mașini CN), destinat proiectării asistate de calculator a strategiilor de prelucrare a fitingurilor, prin strunjire, cu generarea programului CN, pentru MUCN în 2 axe;
7. 2006: Sistemul PASPFiCN-2006 (Proiectarea Asistată a Strategiilor de Prelucrare a Fitingurilor pe mașini CN), destinat proiectării asistate de calculator a strategiilor de prelucrare a fitingurilor, prin strunjire, cu generarea programului CN, pentru MUCN în 2 axe;
8. 2006: Sistemul PASPACN-2006 (Proiectarea Asistată a Strategiilor de Prelucrare a Arborilor pe mașini CN), destinat proiectării asistate de calculator a strategiilor de prelucrare a arborilor, prin strunjire, cu generarea programului CN, pentru MUCN în 2 axe;
9. 2006: Sistemul PASPACN-2006 (Proiectarea Asistată a Strategiilor de Prelucrare a Arborilor pe mașini CN), destinat proiectării asistate de calculator a strategiilor de

prelucrare a arborilor, prin strunjire, cu generarea programului CN, pentru MUCN în 2 axe;

10. 2005: Sistemul FASCoB-2005 (Frezarea Asistată a Suprafețelor Complexe de tip Buzunar), destinat prelucrării buzunarelor de formă complexă prin frezare pe MUCN în $2 \frac{1}{2}$ axe respectiv în 3 axe;

11. 2000: Sistemul FASC-2000 (Frezarea Asistată a Suprafețelor Complexe), destinat prelucrării suprafețelor 3D oarecare, prin frezare pe MUCN în $2 \frac{1}{2}$ axe respectiv în 3 axe;

Data 07.06.2021

Autor: Conf. dr. ing. Camil LANCEA

Semnatura,