

Lista lucrărilor științifice

A – Teza de doctorat

„ Studii și cercetări privind procesul de eroziune electrică folosind problema la limită cu frontieră liberă (problema de tip Stefan) ”

conducător științific : Prof.dr.ing..Marcel Sabin Popa

Universitatea TEhnica din Cluj Napoca

Susținere publică: mai 2011.

B – Cărți și capitole în cărți publicate

CĂRȚI

1. Popa M. S., Kunz A., Kennel T., Precup M., **Contiu G.**, Tehnologii Inovative si procese creative/ Innovative Technologien und Kreative Produktionsprozesse, Editura UTPRESS , Cluj Napoca, 2009,ISBN 979-973-662-421-6;
2. **Glad Conțiu**, "Studiul descărcărilor singulare în procesul de prelucrare prin eroziune electrică. Monografie ", ISBN 978-606-737-451-3, U.T.Press, 2020;

Suport de curs/îndrumator de lucrari de laborator

1. **Glad Conțiu**, ”Technologie și creativitate – Technologie und Kreativität. Suport de curs” – în format electronic, ISBN 978-606-737-470-4, Editura U.T. Pess, 2020;
2. **Glad Conțiu**, " Zerspanverarbeitungstechnik 1, Anleitung für die Laborarbeit- (Tehnologii de prelucrare prin așchiere 1, îndrumător pentru lucrări de laborator)", ISBN 978-606-737-469-8, U.T. Press, 2020. (in limba germană);
3. **Glad Conțiu**, ”Zerspanverarbeitungstechnik 1. Vorlesung” – Tehnologii de prelucrare prin așchiere 1 – suport de curs, ISBN 978-606-737-468-1, Editura U.T. Pess, 2020;
4. Fratila Domnita, Radu, A., Pacurar Ancuta, Pacurar, R., **Contiu, G.** Panc, N., Pop, G., Tehnologii de Fabricatie. Indrumator pentru lucrari de laborator. UT-PRESS, Cluj Napoca, 2011, ISBN 978-973-662-626-5.

C – Lucrări indexate ISI/BDI

c1) Articole / studii publicate în reviste de specialitate de circulație internațională recunoscute (cotate ISI)

1. Ureche L Florina, Soporan V. F., **Conțiu Glad**, ”Considerations and appreciations on the modeling of the technological process of wire erosion processing”, ACTA TECHNICA NAPOCENSIS SERIES-APPLIED MATHEMATICS MECHANICS AND ENGINEERING, Volume: 58 Issue: 2 Pages: 293-298, iunie 2015, ISSN: 1221-5872, WOS:000387965200023.
2. **Glad Conțiu**, Marcel Popa, FREE BOUNDARY VALUE PROBLEM APPLIED TO THE ELECTROTHERMAL EROSION, in QUALITY AND INNOVATION IN ENGINEERING AND MANAGEMENT, pp. 401-404, 2011.
3. **Conțiu Glad**, Popa S. Marcel, Socaciu Lavinia, Pop Grigore, ”FUZZY ANALYTICAL HIERARCHY PROCESS APPLIED TO DETERMINE THE MATERIAL MACHINABILITY IN EDM PROCESS”, ACTA TECHNICA NAPOCENSIS SERIES-APPLIED MATHEMATICS MECHANICS AND

ENGINEERING, Volume: 58 Issue: 3 Pages: 385-394, septembrie 2015, ISSN: 1221-5872, WOS:000422406600010.

4. Chicinas H F, Jucan, D. O., Marinca T. F., Neamțu B. V., **Conțiu Glad**, Gotoe P., Eckert A., Popa C., "Influence of milling media on the structure and agglomeration behaviour of some hardmetal powder", POWDER METALLURGY, Volume: 61 Issue: 4 Pages: 342-347, DOI: 10.1080/00325899.2018.1476081, WOS:000442016300009, ISSN: 0032-5899, eISSN: 1743-2901, 2018 (Impact Factor 1.149 - 2018)
5. Chicinas H. F., Marinca T.F., Neamțu B.V., **Conțiu Glad**, Isnard O., Chicinaș I., "Influence of process control agent type on the mechanosynthesis of Fe₃O₄ particles", ADVANCED POWDER TECHNOLOGY, Volume: 29 Issue: 8 Pages: 1838-1847, DOI: 10.1016/j.ap.2018.04.020, Published: AUG 2018, WOS:000436496300008, ISSN: 0921-8831, eISSN: 1568-5527, (Impact Factor 3,25 - 2018)
6. Faur, AS; Popa, MS; **Conțiu Glad** ; Tomoiaga, V ; Luca, BC; "Research regarding a reduced contact between the flanks surface and the material during tapping in order to increase machining productivity", ACTA TECHNICA NAPOCENSIS SERIES-APPLIED MATHEMATICS MECHANICS AND ENGINEERING, Volume: 61 Issue: 3 Pages: 53-58 Special Issue: SI, Published: SEP 2018, WOS:000451702200007, ISSN: 1221-5872.
7. Ciupan M., Popa M. AS., Sosa I.P., **Conțiu Glad**, Ciupan E., "Development and testing of mineral casting for use in structural elements and mold making", ACTA TECHNICA NAPOCENSIS SERIES-APPLIED MATHEMATICS MECHANICS AND ENGINEERING, Volume: 61 Issue: 3 Pages: 29-34 Special Issue: SI, Published: SEP 2018, WOS:000451702200004, ISSN: 1221-5872.
8. Tomoiaga, VB ; Popa M.S.; **Conțiu Glad**; Faur, A.S.; Sattel, S., "Influence of the microgeometry on the drilling process in inconel 718", ACTA TECHNICA NAPOCENSIS SERIES-APPLIED MATHEMATICS MECHANICS AND ENGINEERING, Volume: 61 Issue: 3 Pages: 409-414, Published: SEP 2018, WOS:000468025900016, ISSN: 1221-5872.
9. Chicinas, H. F.; **Contiu, G.**; Sechel, N. A.Preparation and characterisation of WC-10Co powders obtained by aqueous milling (vol 44, pg 22935, 2018), CERAMICS INTERNATIONAL Volume: 45 Issue: 4 Pages: 5177-5177 Published: MAR 2019;
10. Claudiu Ioan JUGRESTAN, Marcel Sabin POPA, Stefan SATTEL, Ovidiu Virgil VEREȘ, **Glad CONȚIU**, "Experimental studies on the influence of cutting parameters on delamination at cfrp drilling using Taguchi Method", ACTA TECHNICA NAPOCENSIS SERIES-APPLIED MATHEMATICS MECHANICS AND ENGINEERING, Volume: 62 Issue: 3 Pages: 497-502.
11. Panc, Nicolae; Contiu, Glad; Bocanet, Vlad, Comparative Analysis of Surface Finishing for Different Cutting Strategies of Parts Made from POM C, Conference: International Conference on Manufacturing Engineering and Materials (ICMEM) Location: Novy Smokovec, SLOVAKIA Date: JUN 18-22, 2018 ADVANCES IN MANUFACTURING ENGINEERING AND MATERIALS, ICMEM 2018 Book Series: Lecture Notes in Mechanical Engineering Pages: 324-332 Published: 2019,
12. **G. Contiu**, M. Popa, L. Potra, Optimisation of the EDM process from the point of view of the thermal energy flux of Gauss-spline type, in 2014 INTERNATIONAL CONFERENCE ON PRODUCTION RESEARCH - REGIONAL CONFERENCE AFRICA, EUROPE AND THE MIDDLE EAST AND 3RD INTERNATIONAL CONFERENCE ON QUALITY AND INNOVATION IN ENGINEERING AND MANAGEMENT (ICPR-AEM 2014), pp. 106-109, 2014.
13. Samuila V., Soporan V. F., **Conțiu Glad**, Padurețu Sanda, Lehene T.R., Vercan M.M., "Hierarchical modeling of professional skills in the field of castings manufacture engineering", INTERNATIONAL CONFERENCE ON INNOVATIVE RESEARCH - ICIR EUROINVENT 2017, Edited by: Sandu, AV; Abdullah, MMA; Vizureanu, P; Ghazali, CMR; Sandu, I, Book Series: IOP Conference Series- Materials Science and Engineering, Volume: 209, Article Number: 012095, DOI: 10.1088/1757-899X/209/1/012095, ISSN: 1757-8981, WOS:000423732100095publicat: 2017.
14. Popan, Ioan Alexandru; **Contiu, Glad**; Campbell, Ian; "Investigation on standoff distance influence on kerf characteristics in abrasive water jet cutting of composite materials"; International Conference on Modern Technologies in Manufacturing (MTeM-AMaTUC), Cluj-Napoca, Romania, October 12-13, 2017 Modern Technologies in Manufacturing, Book Series: MATEC Web of Conferences, Volume: 137, Article Number: UNSP 01009, 2017, DOI: 10.1051/mateconf/201713701009;

15. Popa S. Marcel, **Conțiu Glad**, Pop Grigore, Preja Dan, New technologies and applications of EDM process, INTERNATIONAL JOURNAL OF MATERIAL FORMING, Volume: 2 Pages: 633-636 Supplement: 1, DOI: 10.1007/s12289-009-0648-9, Published: AUG 2009;
16. Marcel Popa, **Glad Conțiu**, Dan Preja, Grigore Pop, Andrei Tirla, ELECTRIC DISCHARGE MACHINING PROCESS CONTROL, in ANNALS OF DAAAM FOR 2009 & PROCEEDINGS OF THE 20TH INTERNATIONAL DAAAM SYMPOSIUM, vol. 20, pp. 381-382, 2009.
17. Marcel Popa, **Glad Conțiu**, Grigore Pop, SURFACE QUALITY OF THE EDM PROCESSED MATERIALS, in XIX IMEKO WORLD CONGRESS: FUNDAMENTAL AND APPLIED METROLOGY, PROCEEDINGS, pp. 1863-1866, 2009.

c2) Studii publicate la conferințe indexate în baze de date internaționale de referință (DBLP, ACM, IEEE, SCOPUS)¹

1. M. Popa, **Glad Conțiu**, Advanced quality concepts applied to the thermal behaviour of modern manufacturing systems, in 2008 IEEE INTERNATIONAL CONFERENCE ON AUTOMATION, QUALITY AND TESTING, ROBOTICS (AQTR 2008), THETA 16TH EDITION, VOL I, PROCEEDINGS, pp. 218-221, 2008.
2. Marcel Popa, **Glad Conțiu**, Mircea Precup NEW TRENDS IN NON-CONVENTIONAL TECHNOLOGIES AND ELECTRIC DISCHARGE MACHINING, in ANNALS OF DAAAM FOR 2008 & PROCEEDINGS OF THE 19TH INTERNATIONAL DAAAM SYMPOSIUM, pp. 1111-1112, 2008.
3. Marcel Popa, Mircea Precup, **Glad Conțiu**, LASER WELDING AUTOMATION, in ANNALS OF DAAAM FOR 2008 & PROCEEDINGS OF THE 19TH INTERNATIONAL DAAAM SYMPOSIUM, pp. 1113-1114, 2008.
4. Marcel Popa, **Glad Conțiu**, Mircea Precup, Surface quality in the electric discharge machining process, in ANNALS OF DAAAM FOR 2007 & PROCEEDINGS OF THE 18TH INTERNATIONAL DAAAM SYMPOSIUM: INTELLIGENT MANUFACTURING & AUTOMATION: FOCUS ON CREATIVITY, RESPONSIBILITY, AND ETHICS OF ENGINEERS, pp. 581-582, 2007.

D – Lucrări publicate în reviste și volume de conferințe cu referenți (neindexate)

1. POPA M.S., **CONTIU G.**, PRECUP M., Contributions along heat transfer in EDM, Proceedings of the Third International Conference on Thermal Engineering: Theory and Applications, May 21-23, 2007, Amman, Jordan;
 2. POPA M.S., **CONTIU G.**, PRECUP M., - EDM PROCESS IN THE MODERN TECHNOLOGIES, 12th International Research/Expert Conference "Trends in the Development of Machinery and Associated Technology", pag. 1141-1144 TMT 2008, Istanbul, Turkey, 26-30 August, 2008, ISBN 978-9958-617-41-6, HTTP://WWW.TMT.UNZE.BA/
 3. POPA M.S., PRECUP M., **CONTIU G.**, Some consideration about LASER welding automation, 12th International Research/Expert Conference "Trends in the Development of Machinery and Associated Technology", pag. 1061-1064 TMT 2008, Istanbul, Turkey, 26-30 August, 2008, ISBN 978-9958-617-41-6, HTTP://WWW.TMT.UNZE.BA/
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4. POPA M.S., **CONTIU G.**, New possibilities of improving the EDM process, AMO Journal, Advanced Materials and operations, pag. 101-103, 30 June, 2009, ISSN 1313-4264, [HTTP://AMO.DMT-PRODUCT.COM/AMO-09/EN/INDEX.HTML](http://AMO.DMT-PRODUCT.COM/AMO-09/EN/INDEX.HTML)
5. TIRLA ANDREI, POPA MARCEL; **CONTIU GLAD**; POP GRIGORE" SOME RESEARCHES ABOUT SURFACE QUALITY IN THE EDM PROCESS" MTeM 2009 – The 9th international conference – Modern Technologies in Manufacturing – Cluj-Napoca –Romania 8-10 October, 2009; pg. 281-284, ISBN 973-7937-07-04
6. POP G, POPA M. **CONTIU G.**, TIRLA A.; " Some applications on the thermography and laser Measurement for the Optimisation of CMM Machines " MTeM 2009 – The 9th international conference – Modern Technologies in Manufacturing – Cluj-Napoca –Romania 8-10 October, 2009; ISBN 973-7937-07-04; pg. 245-248, [HTTP://WWW.MTEM.UTCLUJ.RO/INDEX.HTM](http://WWW.MTEM.UTCLUJ.RO/INDEX.HTM)
7. POP, G.M., CHETREANU-DON, C.O, TIRLA, A., **CONTIU, G.**, CNC milling machine biaxial linear error measurements using laser interferometers and infrared thermography, International virtual journal for science, technics and innovations for the industry – MTM, Scientific-Technical Union of Mechanical Engineering, Sofia, Bulgaria, 6/2010, pag. 17-20, ISSN 1313-0226. (<http://mech-ing.com/journal/6-2010.html>)
8. TIRLA A., POPA M. S., POP G. M., CONTIU G., CHETREANU-DON C., OLTEAN A., Studies concerning the electrode wear in the EDM process, Advanced Materials and operations AMO 2010, Issue 4, vol 1, pag. 93-97, ISSN, 1313-8987.
9. IPOP, G.M., TIRLA, A., **CONTIU, G.**, CHETREANU-DON, C.O., OLTEAN, A.I., KOUKACH, D., Researches regarding the thermal behaviour of a CNC milling machine using IR thermography in compearance with other conventional methods, The 21st DAAAM International Symposium Intelligent Manufacturing & Automation: Interdisciplinary Solutions, University of Zadar, Zadar, Croatia, 20-23 November 2010, ISSN 1726-9679, pag 1099-110. (www.daaam.com);

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Ș.L. dr. ing. Conțiu Glad

