

Asst. Prof. EVREN YASA

Personal Information

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Education Information

Doctorate, Katholieke Universiteit Leuven, Makine Müh., Belgium 2006 - 2011

Postgraduate, University Of British Columbia {British Columbia}, Uygulamalı Bilim, Canada 2002 - 2004

Undergraduate, Istanbul Technical University, Makine Fakültesi, Makine Mühendisliği Bölümü, Turkey 1998 - 2002

Dissertations

Doctorate, Manufacturing combining Selective Laser Melting (SLM) and Selective Laser Erosion (SLE) / Laser Remelting, Katholieke Universiteit Leuven, Makine Müh., 2011

Postgraduate, Mathematical modeling, measurement and correction of volumetric errors in three-axis machine tools, University Of British Columbia {British Columbia}, Uygulamalı Bilim, 2004

Research Areas

Engineering and Technology

Academic Titles / Tasks

Assistant Professor, Eskisehir Osmangazi University, Mühendislik-Mimarlık Fakültesi, 2017 - Continues

Academic and Administrative Experience

Eskisehir Osmangazi University, Merkezi Araştırma Laboratuvarı Uygulama Ve Araştırma Merkezi, 2017 - Continues

Courses

Technical English, Undergraduate, 2017 - 2018

Fundamentals of Computer Programming, Undergraduate, 2017 - 2018

Differential Equations, Undergraduate, 2017 - 2018

İleri İmalat Teknolojileri, Undergraduate, 2017 - 2018

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. Dimensional Accuracy and Mechanical Properties of Chopped Carbon Reinforced Polymers Produced by Material Extrusion Additive Manufacturing**

Yasa E., Ersoy K.

MATERIALS, vol.12, no.23, 2019 (Journal Indexed in SCI)

- II. **Thermal and molten pool model in selective laser melting process of Inconel 625**
Kundakcioglu E., Lazoglu I., Poyraz O., YASA E., Cizicioglu N.
INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, vol.95, pp.3977-3984, 2018 (Journal Indexed in SCI)
- III. **Assessing and comparing influencing factors of residual stresses in selective laser melting using a novel analysis method**
Kruth J., Deckers J., Yasa E., Wauthle R.
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART B-JOURNAL OF ENGINEERING MANUFACTURE, vol.226, pp.980-991, 2012 (Journal Indexed in SCI)
- IV. **Determination of geometrical factors in Layerwise Laser Melting using optical process monitoring**
Craeghs T., Clijsters S., Yasa E., Bechmann F., Berumen S., Kruth J.
OPTICS AND LASERS IN ENGINEERING, vol.49, no.12, pp.1440-1446, 2011 (Journal Indexed in SCI)
- V. **The investigation of the influence of laser re-melting on density, surface quality and microstructure of selective laser melting parts**
Yasa E., Deckers J., Kruth J.
RAPID PROTOTYPING JOURNAL, vol.17, no.5, pp.312-327, 2011 (Journal Indexed in SCI)
- VI. **Manufacturing by combining Selective Laser Melting and Selective Laser Erosion/laser re-melting**
Yasa E., Kruth J. -, Deckers J.
CIRP ANNALS-MANUFACTURING TECHNOLOGY, vol.60, no.1, pp.263-266, 2011 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Additive Manufacturing in Land Vehicle Industry**
Ersoy K., KOÇ B., YASA E.
American Journal of Biomedical Science and Research, 2019 (Refereed Journals of Other Institutions)
- II. **Anisotropic impact toughness of chopped carbon fiber reinforced nylon fabricated by material extrusion-based additive manufacturing**
YASA E.
Eskişehir Technical University Journal of Science and Technology A- Applied Sciences And Engineering, vol.20, no.2, pp.195-203, 2019 (Other Refereed National Journals)
- III. **A Study on the Stair Stepping Effect in Direct Metal Laser Sintering of a Nickel-based Superalloy**
YASA E., Poyraz Ö., Uğur Solakoğlu E., Akbulut G., Ören S.
Procedia CIRP, vol.45, pp.175-178, 2016 (Refereed Journals of Other Institutions)
- IV. **Overview of cryogenic cooling in machining of Ti alloys and a case study**
YASA E., Pilatin S., ÇOLAK O.
Journal of Production Engineering, vol.15, no.2, pp.1-9, 2012 (Refereed Journals of Other Institutions)
- V. **Microstructure and mechanical properties of selective laser melted 18Ni-300 steel**
KEMPEN K., YASA E., THIJS L., KRUTH J. P., VAN HUMBEECK J.
Physics Procedia, vol.12, no.1, pp.255-263, 2011 (Refereed Journals of Other Institutions)
- VI. **Microstructural investigation of Selective Laser Melting 316L stainless steel parts exposed to laser re-melting**
YASA E., Kruth J. P.
Procedia Engineering (CIRP Conference on Surface Integrity (CSI), vol.19, pp.389-395, 2011 (Refereed Journals of Other Institutions)
- VII. **Investigation of laser and process parameters for Selective Laser Erosion**
YASA E., Kruth J.
Precision Engineering-Journal Of The International Societies For Precision Engineering And Nanotechnology, vol.34, no.1, pp.101-112, 2010 (Refereed Journals of Other Institutions)

VIII. Charpy impact testing of metallic Selective Laser Melting parts

YASA E., Deckers J., Kruth J. P. , Rombouts M., Luyten J.

Virtual and Physical Prototyping, vol.5, no.2, pp.89-98, 2010 (Refereed Journals of Other Institutions)

Books & Book Chapters

- I. **Tasarım ve İmalat**
Yasa E. (Editor)
Intech Open, London, 2020
- II. **Powder Bed Fusion Additive Manufacturing of Ni-Based Superalloys: Applications, Characteristics, and Limitations**
YASA E., POYRAZ Ö.
in: Additive Manufacturing Applications for Metals and Composites, K.R. Balasubramanian, V. Senthilkumar, Editor, IGI Global, Pennsylvania, pp.249-270, 2020
- III. **Additive Manufacturing of Polymer Matrix Composites**
Yasa E.
in: Uçak Teknolojisi (Aircraft Technology), Melih Kushan, Editor, Intech Open, London, pp.147-169, 2018
- IV. **The investigation of the influence of laser re-melting on density, surface quality and microstructure of SLM parts**
YASA E., Deckers J., Kruth J. P.
in: Emerald Gems: A Focus on SLM and SLS Methods in 3D Printing, , Editor, EMERALD GROUP, pp.23-50, 2015
- V. **Selective Laser Sintering/Melting and Selective Laser Erosion with Nd:YAG Lasers**
YASA E., CRAEGHS T., KRUTH J. P.
in: Advances in Laser and Optics Research Vol.7, Arkin W., Editor, NOVA PUBLISHERS, Hauppauge NY, pp.1-64, 2012

Refereed Congress / Symposium Publications in Proceedings

- I. **On the Use of Inherent Strain Method for Modelling Electron Beam Melting**
TAN E., YASA E., GÜMÜŞ B., SÖYLEMEZ E., AKTAŞ K.
EBAM 2020, 5 - 07 October 2020
- II. **Katmanlı İmalat Teknolojilerinin Truva Atı**
YASA E.
Kaynak Teknolojisi XI. Ulusal Kongre ve Sergisi, Ankara, Turkey, 15 - 16 November 2019
- III. **Selective Laser Melting Process Development for enhanced productivity with Ph 17-4 stainless steel**
YASA E., Atik İ., Bayraktar İ.
AMCTURKEY Additive Manufacturing Conference, İstanbul, Turkey, 17 - 18 October 2019
- IV. **On the optimization of metal spatter sweeping in Selective Laser Melting**
Gürkan A. Y. , Bursa M., YASA E., Öğüt E.
AMCTURKEY Additive Manufacturing Conference, İstanbul, Turkey, 17 - 18 October 2019
- V. **On the effect of unfixed process variables on mechanical properties in Selective Laser Melting**
YASA E., Ersoy K., KOÇ B.
AMCTURKEY Additive Manufacturing Conference, İstanbul, Turkey, 17 - 18 October 2019
- VI. **Characterization and Compression Testing of Double Gyroid Lattice Structures produced by Direct Metal Laser Sintering**
Kavas B., YASA E., SÖNMEZ M. Ş.
AMCTURKEY Additive Manufacturing Conference, İstanbul, Turkey, 17 - 18 October 2019
- VII. **Compressive Strength Testing and Characterization of Double Gyroid Lattice Structure Produced by Direct Metal Laser Melting**

KAVAS B., YASA E., SÖNMEZ M. Ş.

4th WORKSHOP ON METAL ADDITIVE MANUFACTURING, 27 - 28 May 2019

- VIII. **A Review on the Additive Manufacturing of Fiber Reinforced Polymer Matrix Composites**
YASA E., Ersoy K.
29th Annual International Solid Freeform Fabrication Symposium - An Additive Manufacturing Conference, 13 - 15 August 2018
- IX. **Understanding Adopting Selective Laser Melting of Metallic Materials**
YASA E.
29th Annual International Solid Freeform Fabrication Symposium - An Additive Manufacturing Conference, 13 - 15 August 2018
- X. **Investigation of Support Structures for Direct Metal Laser Sintering (DMLS) of IN625 Parts,**
Poyraz Ö., YASA E., Akbulut G., Orhangül A., Pilatin S.
Proc. of Solid Freeform Fabrication (SFF) Symposium, Austin, United States Of America, 10 - 12 August 2015
- XI. **A Technological And Business Perspective Of Additive Manufacturing For Defense Industry**
Ersoy K., KOÇ B., YASA E.
18th INTERNATIONAL CONFERENCE ON MACHINE DESIGN AND PRODUCTION, 3 - 06 July 2018
- XII. **A CASE STUDY IN ADDITIVE MANUFACTURING OF LARGE METALLIC PARTS**
YASA E., KOÇ B., ERSOY K.
Research and Development in Business and Education, in Prague November 14-16, 2017, Prague, Czech Republic, 14 - 16 November 2017
- XIII. **The enhancement of micromachining ability of Selective Laser Melting by Selective Laser Erosion,**
Kruth J. P., YASA E., Vanparys M., Van Vaerenbergh J.
International Conference Polymers and Moulds Innovations, GENT, Belgium, 19 April 2007 - 20 April 2017
- XIV. **Process limits of direct metal lasersintering (DMLS) in terms of minimum hole and boss diameters with varying aspect ratios**
Solakoğlu Uğur E., Yılmaz R., Ören S., Akbulut G., Poyraz Ö., YASA E.
UMTIK (17th International Conference on Machine Design and Production) Conference, Bursa, Turkey, 12 - 15 July 2016
- XV. **Repair and Manufacturing of High Performance Tools by Additive Manufacturing**
YASA E., Poyraz Ö., Cızıoğlu N., Pilatin S.
8th International Conf. and Exhibition On Design and Production of Machines and Dies/Molds, Aydın, Turkey, 18 - 21 June 2015
- XVI. **On Additive Manufacturing for Aviation/Space Applications**
YASA E.
SASAD İleri Malzemeler ve Süreçler Çalıştayı, Turkey, 2 - 03 December 2014
- XVII. **Benchmarking of different powder-bed metal fusion processes for machine selection in additive manufacturing**
YASA E., Demir F., Akbulut G., Cızıoğlu N., Pilatin S.
Proc. of Solid Freeform Fabrication (SFF) Symposium, Austin, United States Of America, 4 - 06 August 2014
- XVIII. **Investigation of free-form surface reconstruction techniques for reverse engineering of worn-out gas turbine blades: a case study**
Poyraz Ö., Uğur Solakoğlu E., Demir F., YASA E., Pilatin S.
The 16th International Conference on Machine Design and Production, İzmir, Turkey, 30 June - 03 July 2014
- XIX. **On Additive Manufacturing**
YASA E.
7th International Powder Metallurgy Conference and Exhibition, Ankara, Turkey, 24 - 28 June 2014
- XX. **Havacılık malzemelerinin atalet kaynağı yöntemi ile birleştirilmesi**
Cızıoğlu N., YASA E., Akbulut G., Pilatin S.
IV. Ulusal Talashi İmalat Sempozyumu, Turkey, 7 - 09 November 2013
- XXI. **Havacılık sektöründe optik ölçüm yöntemlerinin yeri ve karşılaştırmalı değerlendirilmesi üzerine bir çalışma**

YASA E., Ören S., Ezgi U., Poyraz Ö., Akbulut G.

VIII Ulusal Ölçümbilim Kongresi ve Sergisi, Kocaeli, Turkey, 26 - 28 September 2013

- XXII. **Parameter study for Selective Laser Erosion**
Kruth J. P. , YASA E., Van Vaerenbergh J.
4th International Conference and Exhibition on design and production of machines and dies/molds, İzmir, Turkey, 21 June 2007 - 23 June 2013
- XXIII. **Assessment of machinability performance in 5-axis milling of Inconel 718 alloy with different carbide grades**
YASA E., Orhangül A., Songüler C., Pilatin S., Baytok E.
7th International Conference and Exhibition on Design and Production of Machines and Dies/Molds, Antalya, Turkey, 20 - 23 June 2013
- XXIV. **A Review on the Improvements in Machinability of Ti-6Al-4V**
YASA E., Alpağan U., Pilatin S., ÇOLAK O.
10th Global Conference on Sustainable Manufacturing, İstanbul, Turkey, 31 October - 02 November 2012
- XXV. **Overview of cryogenic cooling in machining of Ti alloys and a case study**
YASA E., Pilatin S., ÇOLAK O.
3rd Int. Conf. on Sustainable Life in Manufacturing, 2 - 05 October 2012
- XXVI. **Improving productivity rate in SLM of commercial steel powders**
Badrossamay M., YASA E., Van Vaerenbergh J.
RAPID 2009 Conference Exposition, Schaumburg, United States Of America, 12 - 14 May 2009
- XXVII. **Roughness improvement in Selective Laser Melting**
Kruth J. P. , YASA E., Deckers J.
Proc. of PMI 2008, 1 - 02 September 2008
- XXVIII. **Consolidation of polymer powders by selective lasersintering**
Kruth J. P. , Levy G., Schindel R., Craeghs T., YASA E.
Proc. of PMI 2008, Gent, Belgium, 1 - 02 September 2008
- XXIX. **Experimental investigation of laser surface re-melting for the improvement of Selective Laser Melting process**
Kruth J. P. , YASA E., Deckers J.
Proc. of Solid Freeform Fabrication (SFF) Symposium, Austin, United States Of America, 4 - 06 August 2008
- XXX. **Experimental analysis of process and laser parameters in laser marking**
Kruth J. P. , YASA E.
Proc. of ASME ESDA 2008, Haifa, Israel, 7 - 09 July 2008
- XXXI. **Experimental study of the combined process of Selective Laser Melting and Selective Laser Erosion**
YASA E., Kruth J. P.
Proc. of RAPID2008, Florida, United States Of America, 20 - 22 May 2008

Citations

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