Curriculum vitae

PERSONAL INFORMATION	
First name / Surname	John Kechagias
Address	Dept. of Mechanical Engineering, TEI of Thessaly Campus, 41110, Larissa, Hellas
Telephone(s)	+302410 684322 Mobile: +30 6974201303
Fax(es)	+302410 684305
E-mail	jkechag@teilar.gr
Web pages	http://www.teilar.gr/person_en.php?pid=153, http://www.mech.teilar.gr/index.php?q=node/77
Nationality	Hellenic
Date of Birth	1971
Gender	Male
WORK EXPERIENCE	
Date	*22 Nov. 2013 – present*:
Occupation or position held	Head of the Mechanical Engineering Dept. TEI of Thessaly
Main activities and responsibilities	Managerial and Academic activities
Name and address of employer	Deptartment of Mechanical Engineering, TEI of Thessaly, 41 110 Larissa, Hellas
Type of business or sector	Technological Educational Institute (TEI)
Date	*Sep. 20012 – present*:
Occupation or position held	Associate Professor Ph.D., and Head of the Laboratory for Machine Tools and Manufacturing Processes
Main activities and responsibilities	Academic and Research activities. Teaching: CNC Machine Tools, Manufacturing Technology I & II, Mechanical Design I
Name and address of employer	Deptartment of Mechanical Engineering, Technological Educational Institute (TEI) of Larissa, 41 110 Larissa, Hellas
Type of business or sector	Technological Educational Institute (TEI)
Date	*2004 – Aug. 2012*:
Occupation or position held	Assistant Professor Ph.D., and Head of the Laboratory for Machine Tools and Manufacturing Processes
Main activities and responsibilities	Academic and Research activities. Teaching: CNC Machine Tools, Manufacturing Technology, Computer Aided Design, Finite Elements Method
Name and address of employer	Dept. of Mechanical Engineering, TEI of Larissa, 41 110 Larissa, Hellas
Type of business or sector	Technological Educational Institute (TEI)
Date	*1 Sep. 2008 – 30 Aug. 2011*:
Occupation or position held	Head of the Constraction Sector
Main activities and responsibilities	Managerial and Academic activities
Name and address of employer	Deptartment of Mechanical Engineering, TEI of Larissa, 41 110 Larissa, Hellas
Type of business or sector	Technological Educational Institute (TEI)
Date	Mar. 2010 – Sep. 2012
Occupation or position held	Lecturer, Instructor (P.D. 407/80)
Main activities and responsibilities	Teaching: Introduction to Manufacturing Processes, Technology of Machining Processes.
Name and address of employer	Dept. of Mechanical & Industrial Engineering, University of Thessaly, Hellas
Type of business or sector	University of Thessaly
Date	*1997-1998 and-2000-2002*
Occupation or position held	Adjunct Professor
Main activities and responsibilities	Academic and Research activities. Teaching: CAD IV, CAM V
Name and address of employer	Deptartment of Industrial Design, Technological Educational Institute (TEI) of Western Macedonia, Koila Kozanis, Hellas

Type of business or sector	Technological Educational Institute (TEI)
Date	*Oct 2002-Jun 2004*
Occupation or position held	Adjunct Professor
Main activities and responsibilities	Teaching: CNC Machine Tools
Name and address of employer	Deptartment of Mechanical Engineering, TEI of Larissa, 41 110 Larissa, Hellas
Type of business or sector	Technological Educational Institute (TEI)
Date	*Oct 2001-Jun 2004*
Occupation or position held	Mechanical Engineer
Main activities and responsibilities	Teaching activities
Name and address of employer	Technical Vocational Educational Schools, Hellas
Type of business or sector	Technical Vocational Educational Schools (*TEE*)
Date	*Oct 2000-Oct 2002*
Occupation or position held	Mechanical Engineer and Head
Main activities and responsibilities	Technical Office and Laboratory for Informatics
Name and address of employer	N. Ntelis - I. Kechagias OE, Elassona, Hellas
Type of business or sector	OE firm
Date	*Oct. 1995-Oct 2000*
Occupation or position held	Mechanical Engineer
Main activities and responsibilities	Mechanical Engineer activities, Research Assistant at University of Patras
Name and address of employer	Individual technical office, Elassona, Hellas
Type of business or sector	Individual technical office
Date	*Sep 1998- Aug 2000*
Occupation or position held	YEA, Reserve Officer Cadet
Main activities and responsibilities	Technician of Vehicles, Assistant officer
Name and address of employer	Hellenic Land Army (Technical Sector)
Type of business or sector	Hellenic Army

EDUCATION AND TRAINING

Date	*1995-2001*
Title of qualification awarded	Ph.D. in Mechanical Engineering (grade: 10). Specialization: *Parameter design and modelling of the laminated object manufacturing technique*
Name and type of organisation providing education and training	Department of Mechanical Engineering, Politechnic Shool, University of Patras, Hellas
Date	*Sep 1990 – Jul 1995*
Title of qualification awarded	Diploma of Mechanical Engineering (grade: 7,49). Specialization: Manufacture Engineering & Automations
Name and type of organisation providing education and training	University of Patras, Hellas
Date	*Sep 1989 – Sep 1990*
Title of qualification awarded	1st year courses attentance of the Mathematic department
Name and type of organisation providing education and training	University of Patras, Hellas
Date	*Sep 1999 – Jul 2000*
Title of qualification awarded	Degree of School of Pedagogical & Technological Education (grade: 7,7)
Name and type of organisation providing education and training	School of Pedagogical & Technological Education (SELETE-ASPAITE), Ioannina, Hellas
Date	*1997*
Title of qualification awarded	Basic trainning courses of SLA 250 machine
Name and type of organisation providing education and training	3D Systems Gmph, Darmstadt, Germany

PERSONAL SKILLS AND COMPETENCES

Mother tongue: Hellenic

Other language(s) English

Understanding	Speaking	Writing
very good	very good	very good

Organisational skills and competences: Team working skills, coordination and organisational skills

Technical skills and competences: CNC Machine Tools, CAD/CAM/CAE, Rapid Prototyping, Robust Design, Numeric Modeling and simulating

Computer skills and competences: MCU(denford, fanuc, sinumeric, g-codes, heidenhaind, ShopMill)
CAM (edgecam, magics, lomslice, etc)
CAD/CAE: AutoCAD, Mechanical Desktop, Inventor, Solid Works, Solid Edge, 3D Studio Max, Unigraphics, I- Deas, ANSYS, MatLab, etc.
Operating Systems: Windows (MS Office), macos, etc
Programming languages: Visual studio, fortran

PROFESSIONAL SOCIETIES: Certified Mechanical - Electrical Engineer, member of Technical Camber of Greece since 1995
Hellenic Association of Mechanical & Electrical Engineers since 1996
IAENG member since 2012

No	PUBLICATIONS	Year	Type(*)
1.	John Kechagias (2009), CNC Machine Tools: Theory & Practice, ION, ISSN: 978-960-411-673-7, in Greek language.	2009	NB
2.	S. Karagiannis, P. Stavropoulos, C. Ziogas and J. Kechagias (2013), "Prediction of surface roughness magnitude in CNC end milling processes by considering a set of influence parameters – case study: Aluminium Alloy 5083", Journal of Engineering Manufacture (JEM), accepted	2013	IJF
3.	Fountas N.A., Ntziantzias I., Kechagias J., Koutsomichalis A., Davim J.P. and Vaxevanidis N.M. (2013), "Prediction of Cutting Forces during Turning PA66 GF-30 Glass Fiber Reinforced Polyamide by Soft Computing Techniques", Materials Science Forum Vol. 766 (2013) pp 37-58	2013	IJF
4.	Kechagias J, Petropoulos G, Vaxevanidis N (2012), "Application of Taguchi design for quality characterization of abrasive water jet machining of TRIP sheet steels", The International Journal of Advanced Manufacturing Technology, Vol. 62 (5-8), pp. 635-643	2012	IJF
5.	Kechagias, J., Iakovakis, V. (2009), "A neural network solution for LOM process performance", The International Journal of Advanced Manufacturing Technology, Vol. 43(11), pp. 1214-22.	2009	IJF
6.	Kechagias J, Iakovakis V, Katsanos K, Maropoulos S (2008), "EDM Electrode manufacture using Rapid Tooling: a review", Journal of Materials Science, Vol. 43, pp. 2522-35.	2008	IJF
7.	Kechagias J (2007), "Investigation of LOM process quality using design of experiments approach", Rapid Prototyping Journal, Vol. 13, No. 5, pp. 316-323.	2007	IJF
8.	Kechagias J (2007), "An experimental investigation of the surface roughness of parts produced by LOM process", Rapid Prototyping Journal, Vol. 13, No. 1, pp. 17-22.	2007	IJF
9.	Maropoulos, S., Ridley, N., Kechagias, J., Karagiannis, S. (2004), "Fracture toughness evaluation of H.S.L.A. steel", Engineering Fracture Mechanics, Vol. 71, No. 12, pp. 1695-1704.	2004	IJF
10.	Kechagias, J., Maropoulos, S., Karagiannis, S. (2004), "Process build-time estimator algorithm for laminated object manufacturing", Rapid Prototyping Journal, Vol.10, No. 5, pp. 27-40.	2004	IJF
11.	Iakovakis, V., Kechagias, J., Petropoulos G., Maropoulos, S. (2010), Chapter 100-Finite elements analysis of cylindrical copper shelled SLA electrodes. Innovative Developments in Design and Manufacturing - Advanced Research in Virtual and Rapid Prototyping , CRC Press 2010 (Edited by Bartolo et al), pp. 651-656. (eBook ISBN: 978-0-203-85947-6) (In Proceedings of the Innovative Developments in Design and Manufacturing - Advanced Research in Virtual and Rapid Prototyping, Leiria, Portugal)	2010	IBCh-ICF
12.	S. Karagiannis, V. Iakovakis, J. Kechagias, N. Fountas, N. Vaxevanidis (2013), "Prediction of Surface Texture Characteristics in Turning of FRPs using ANN", In proceedings of the EANN 2013, Chalkidiki, Greece.	2013	ICF
13.	Vaxevanidis N, Kechagias J, Fountas N, Manolakos DE (2013), "Three component cutting force system modeling and optimization in Turning of AISI D6 tool steel using design of experiments and Neural Networks", In Proceedings of the World Congress on Engineering 2013 Vol I, WCE 2013, July 2 - 6, 2013, London, U.K.	2013	ICF
14.	Kechagias J, Ntziantzias J, Fountas N, Vaxevanidis NM (2012), An investigation into abrasive water jet machining of TRIP sheet steels using Taguchi technique and regression models. In Proceedings of the 37th International MATADOR Conference, The University of Manchester, Manchester, UK, pp. 153-156, Springer.	2012	ICF

15.	Pappas, M., Kechagias, J., Iakovakis, V., Maropoulos, S. (2011), "Surface roughness modelling and optimization in CNC end milling using Taguchi design and Neural Networks", ICAART 2011 – In Proceedings of the 3rd International Conference on Agents and Artificial Intelligence Vol 1, 2011, pp. 595-598.	2011	ICF
16.	Pappas M, Ntziantzias I, Kechagias J, Vaxevanidis N (2011) 'Modeling of Abrasive Water Jet Machining using Taguchi Method and Artificial Neural Networks', International Conference on Neural Computation Theory and Applications, NCTA 2011, Paris, pp. 377-380.	2011	ICF
17.	Kechagias, J., Iakovakis, V., Petropoulos G., Maropoulos, S., Karagiannis, S. (2010), "Prediction of surface roughness in turning using orthogonal matrix experiment and neural networks", In Proceedings of the ICAART 2010 - 2nd International Conference on Agents and Artificial Intelligence, Proceedings Vol. 1, pp. 145-150	2010	ICF
18.	Kechagias, J., Pappas, M., Karagiannis, S., Petropoulos, G., Iakovakis, V., Maropoulos, S. (2010), "An ANN approach on the optimization of the cutting parameters during CNC plasma-arc cutting", In Proceedings of the ASME 2010 10th Biennial Conference on Engineering Systems Design and Analysis, ESDA2010, Vol. 4, pp. 643-649.	2010	ICF
19.	Alabey, P., Pappas, M., Kechagias, J., Maropoulos, S. (2010), "Medical Rapid Prototyping and Manufacturing: Status and Outlook", In Proceedings of the ASME 2010 10th Biennial Conference on Engineering Systems Design and Analysis, ESDA2010, Vol. 1, pp. 739-745.	2010	ICF
20.	Kechagias, J., Ziogas, C., Pappas, M., Ntziantzias, I.(2011), "Parameter Optimization During Finish End Milling of Al Alloy 5083 Using Robust Design", Lecture Notes in Engineering and Computer Science, Vol 1, pp. 627-631.(In Proceedings of the World Congress on Engineering 2011, WCE 2011, July 6 - 8, London, U.K.)	2011	ICF
21.	Vaxevanidis NM, Fountas NA, Kechagias J, Manolakos DE (2013), Chapter 9 - Estimation of main cutting force and mean surface roughness in turning of AISI D6 tool steel using design of experiments and artificial neural networks. Nova book "MACHINING: Operations, technology and management", NOVA SCIENCE PUBLISHERS (ISBN 978-1-62618-778-8).	2013	IBCh
22.	Iakovakis, V., Kechagias, J., Petropoulos G., Maropoulos, S. (2011), "The impact of FEM modeling parameters on the computed thermo-mechanical behavior of SLA copper shelled electrodes", International Journal of Manufacturing, Materials, and Mechanical Engineering, Vol. 1(3), pp.21-30.	2011	IJ
23.	Kechagias, J., Billis, M., Maropoulos, S. (2010), "A parameter design of CNC plasma-arc cutting process using robust design", Int. J. Experimental Design and Process Optimisation, Vol. 1(4), pp.315-326	2010	IJ
24.	Kechagias, J., Petropoulos, G., Iakovakis, V., Maropoulos, S. (2009), "An investigation of surface texture parameters during turning of a reinforced polymer composite using design of experiments and analysis", Int. J. Experimental Design and Process Optimisation, Vol. 1(2/3), pp.164-177.	2009	IJ
25.	Chivu, C., Rio-Belver, R.M., Kechagias, J. (2009), "Economic Engineering and Manufacturing Systems", Bulletin of the Transilvania University of Brasov-SERIES I- ENGINEERING SCIENCES, Vol. 2 (51), pp.395-396.	2009	IJ
26.	Petropoulos, G., Kechagias, J., Dasic, P., Iakovakis, V. (2009), "Experimental analysis and a neural network solution for surface finish in turning of Ertalon 66 GF-30 composite", In Proceedings of the 9th International Conference "Research and Development in Mechanical Industry"-RaDMI 2009, pp.16-19 Sep.2009, Vrnjacka Banja, Serbia, pp 1-14.	2009	IJ
27.	Kechagias, J., Iakovakis, V., Katsanos, K., Maropoulos, S. (2008), "Rapid electrode manufacture using Stereolithography models - A state of the art", Recent, Vol. 9, No. 1(22), pp.35-44	2008	IJ
28.	Ntintakis, V. Iakovakis, G. Ntalos, J. Kechagias, (2013), Furniture design optimization with FEA analysis, Conference on current issues in global furniture, 20 Nov, 2013, Buckinghamshire new university, UK.	2013	IC
29.	Ntziantzias I, Kechagias J, Pappas M, Vaxevanidis N (2011), 'An experimental study of cutting force system during turning of a reinforced polymer composite', In Proceedings of the 4th International Conference on Manufacturing Engineering (ICMEN), 3 - 5 October 2011, Thessaloniki, Greece, pp. 113-122.	2011	IC
30.	Ntziantzias I, Kechagias J, Vaxevanidis N, Fountas N, Maropoulos S (2011) 'A Cutting force model in turning of glass fiber reinforced polymer composite', RECENT, Vol. 12, no. 3(33), November, 2011, pp. 348-351. (International Conference on Economic Engineering and Manufacturing Systems, Brasov, 24 – 25 November 2011)	2011	IC
31.	Moustakas, P., Kechagias, J., S. Maropoulos (2010), "Rapid Tooling applications", 1st Int. Conf. Advances in Engineering & Management (ADEM2010), 19-21 May 2010, Severin, Romania	2010	IC
32.	Kechagias, J., Iakovakis, V., Ionescou, A., Karagiannis, S., Maropoulos, S. (2010), "Predicting layer thickness deformation of the laminated object manufacturing process using the Taguchi design", Analytical and Numerical Methods in Mechanics, The 18th Conference on Applied and Industrial Mathematics-CAIM 2010, Iasi, Romania, pp.53.	2010	IC
33.	Chryssolouris, G., Kechagias, J., Kotselis, J., Mourtzis, D., Zannis, S. (1999), "Surface roughness modelling of the Helisys laminated object manufacturing (LOM) process", In Proceedings of the Eighth European Conference on Rapid Prototyping and Manufacturing-EuRP&M1999, University of Nottingham, UK, pp. 141-152.	1999	IC
34.	Kechagias, J., Anagnostopoulos, V., Zervos, S., Chryssolouris, G. (1997), "Estimation of build	1997	IC

	times in Rapid Prototyping processes", In Proceedings of the 6th European Conference on Rapid Prototyping and Manufacturing -EuRP&M1997, University of Nottingham, UK, pp. 137-148.		
35.	Kechagias, J., Iakovakis, V., Petropoulos G., Maropoulos, S. (2009), "A parameter design in turning of copper alloy", Recent, Vol.10, No. 3(27), pp.317-320. (In Proceedings of the International Conference on Economic Engineering and Manufacturing Systems- ICEEMS2009, 26 – 27 Nov. 2009, Braşov, Rom).	2009	IJ-IC
36.	Petropoulos G., Kechagias, J., Iakovakis, V., Maropoulos, S. (2009), "Surface roughness investigation of a reinforced polymer composite", Recent, Vol.10, No. 3(27), pp.381-384. (In Proceedings of the International Conference on Economic Engineering and Manufacturing Systems-ICEEMS2009, 26 – 27 Nov. 2009, Braşov, Rom)	2009	IJ-IC
37.	Kechagias J, Iakovakis V, Maropoulos, S. (2007), "Using Generalized Regression Neural Network to optimize sloped surface roughness of LOM process", Recent, Vol. 8, Nr3a(21a,b) (In Proceedings of the International Conference on Economic Engineering and Manufacturing Systems-ICEEMS2007, 25-26 Oct. 2007, Braşov, Rom)	2007	IJ-IC
38.	Chryssolouris, G., Kechagias, J., Moustakas, P., Koutras, E. (2003), "An experimental investigation of the tensile strength of parts produced by laminated object manufacturing (LOM) process", CIRP Journal of Manufacturing Systems, Vol. 32, No. 5, pp. 319-322. (ISSN: 0176-3377) (In Proceedings of the 34th CIRP International Seminar on Manufacturing Systems, Athens, GR, pp. 319-322.)	2003	IJ-IC
39.	John Kechagias (2007), Practical Guide entrepreneurship-founded company providing specialized services in the wider manufacturing engineering- Kleidarithmos, ISBN: 978-960-461-301-4. (Editor: P. Fitsilis), in Greek language.	2007	NBCh
40.	John Kechagias, (1997), "Introduction to the RP Technologies", In The Proceeding of the A' National Conference of Industrial Design, Kozani, in Greek language.	1997	NC
41.	Kechagias J, Iakovakis V, Tsouras V (2006), "Manufacturing of EDM electrodes using RP techniques- a review", DELTIO PSDMI, Mai (387), in Greek language.	2006	NJ

**International (I), National (N), Impact Factor (F), Book (B), Chapter (Ch), Journal (j), Conference Proceedings (C)*

No	FUTURE PUBLICATIONS	Year	Type(*)
1.	NM Vaxevanidis, JD Kechagias, NA Fountas, DE Manolakos, Three Component Cutting Force System Modeling and Optimization in Turning of AISI D6 Tool Steel Using Design of Experiments and Neural Networks	ICF	
2.	NA Fountas, NMVaxevanidis, JD. Kechagias, CI Stergiou and R.Benhadj-Djilali, Optimizing 5-axis Sculptured Surface Finish Machining through Design of Experiments and Neural Networks	ICF	
3.	V. Iakovakis, N. Vaxevanidis, J. Kechagias, Analysis and optimization of a copper shelled SLA electrode	ICF	
4.	John Kechagias, V. Iakovakis, I. Ntintakis, N. Fountas, N. Vaxevanidis, Dimensional accuracy optimization of prototypes produced by polyjet 3d printing technology	ICF	
5.	John Kechagias, V. Iakovakis, I. Ntintakis, S. Maropoulos, S. Karagiasnnis, Surface roughness modelling of prototypes produced by polyjet 3d printing technology	ICF	

Editorial board member

- International Journal of Experimental Design and Process Optimisation (IJEDPO), Inderscience. (Editorial board member)
- American Journal of Intelligent Systems, Scientific & Academic Publishing

International Scientific Committee

- International Conference on Economic Engineering and Manufacturing Systems. (International Scientific Committee)- ICEEMS2007
- International Conference on Economic Engineering and Manufacturing Systems. (International Scientific Committee)- ICEEMS2009
- International Conference on Economic Engineering and Manufacturing Systems. (International Scientific Committee)- ICEEMS2011

Referee

- Robotics and Computer Integrated Manufacturing, Elsevier
- Boundary Value Problems, Springer open access, Springer
- Journal of Materials Science (JMSc), Springer
- Rapid Prototyping Journal (RPJ), MCB
- International Journal of Experimental Design and Process Optimisation (IJEDPO), Inderscience.
- American Journal of Intelligent Systems, Scientific & Academic Publishing
- Materials, ISSN 1996-1944, open access.

- Journal of Engineering Science and Technology Review, ISSN:1791-2377.
- The Open Construction & Building Technology Journal, ISSN: 1874-8368

Session Chair

- WCE 2013-ICMEEM VIII, London, GB
- Parallel Session 9a - Artificial Intelligence, 2nd International Conference on Agents and Artificial Intelligence (ICAART 2010), 22-24 Jan 2010, Valencia, Spain. (Session Chair)
- Innovating Materials, Processes and Products (Section 1), International Conference on Economic Engineering and Manufacturing Systems, Nov. 2009, University of Braşov, Rom. (Session Chair)
- Innovating Materials, Processes and Products (Section 1), International Conference on Economic Engineering and Manufacturing Systems, Oct. 2007, University of Braşov, Rom. (Session Chair)
- Α' Συνέδριο Βιομηχανικού Σχεδιασμού, Σεπ. 1997, ΤΕΙ Κοζάνης.

Honors

- International Conference on Economic Engineering and Manufacturing Systems, Nov. 2009, University of Braşov, Rom. Certificate of Appreciation.

Citations

2013

1. B. Vijaya Krishna Teja, N. Naresh, K. Rajasekhar (2013), "Multi-Response Optimization of Milling Parameters on AISI 304 Stainless Steel using Grey-Taguchi Method"International Journal of Engineering Research & Technology (IJERT), Vol. 2 Issue 8, August – 2013, ISSN: 2278-0181.
2. Syed Althaf Hussain (2013), Modeling analysis and optimization of machining characteristics of gfrp composites, http://shodhganga.inflibnet.ac.in/handle/10603/12222
3. Kulvinder Rana, Parbhakar Kaushik, Sumit Chaudhary (2013), Optimization of plasma arc cutting by applying Taguchi Method". International Journal of Enhanced Research in Science Technology & Engineering, ISSN: 2319-7463, Vol. 2 Issue 7, July-2013, pp:(106-110).
4. Can Kang, Haixia Liu (2013), "Small-Scale Morphological Features on a Solid Surface Processed by High-Pressure Abrasive Water Jet". Materials, 6, 3514-3529; doi:10.3390/ma6083514.
5. Shashi Kiran G, ND Prasanna (2013) Machinability Studies On Copper Based Alloy- Optimization Of Control Parameters In Turning Operation Using Taguchi Method, International Journal of Engineering Research & Technology (IJERT), Vol. 2 Issue 7, pp. 1248-55, ISSN: 2278-0181.
6. Zicheng Zhu, Vimal G. Dhokia, Aydin Nassehi, Stephen T. Newman (2013), "A Methodology for the Estimation of Build Time for Operation Sequencing in Process Planning for a Hybrid Process". Advances in Sustainable and Competitive Manufacturing Systems, Lecture Notes in Mechanical Engineering 2013, pp 159-171
7. Yi CAO, Zhao-dong WANG, Jian KANG, Di WU, Guo-dong WANG (2013), "Effects of Tempering Temperature and Mo/Ni on Microstructures and Properties of Lath Martensitic Wear-Resistant Steels". Journal of Iron and Steel Research, International. Vol 20 (4), pp. 70–75
8. Surinder Kumar Gill, Meenu Gupta, P. S. Satsangi (2013), 'Prediction of cutting forces in machining of unidirectional glass fiber reinforced plastics composite', Frontiers of Mechanical Engineering, Vol 8(2), pp 187-200
9. VS Thangarasu, G Devaraj, R Sivasubramanian, 'High speed CNC machining of AISI 304 stainless steel; Optimization of process parameters by MOGA', International Journal of Engineering, Science and Technology, Vol. 4, No. 3, 2012, pp. 66-77
10. Yahya Hışman Çelik, Müzeyyen Bulut Özek and Cebeli Özek (2013), "Investigation of Plasma Arc Cutting Parameters With Type-2 Fuzzy Set and System." Materials Testing: Vol. 55, No. 10, pp. 789-795.

11. Yahya Hışman Çelik (**2013**), "Investigating the Effects of Cutting Parameters on Materials Cut in CNC Plasma" Materials and Manufacturing Processes, Taylor & Francis
12. El-Danaf, E., Baig, M., Almajid, A., Alshalfan, W., Al-Mojil, M., Al-Shahrani, S. (**2013**) Mechanical, microstructure and texture characterization of API X65 steel, Materials and Design 47 , pp. 529-538

2012

13. Yun Hai Jia (**2012**), "Study on EDM Technics of Polycrystalline Cubic Boron Nitride Cutting Tool and PcBN Cutting Tool's Life", Applied Mechanics and Materials, Vol 120, pp.311-315.
14. Yun Hai Jia (**2012**), "Electrode Material Effect on Electrical Discharge Machining PcBN Cutting Tool Processing", Advanced Materials Research, Vols. 399-401, pp. 1667.
15. Prasad, K.S., Rao, Ch.S., Rao, D.N. (**2012**) 'Application of design of experiments to plasma arc welding process: A review', Journal of the Brazilian Society of Mechanical Sciences and Engineering 34 (1) , pp. 75-81
16. Prasad, K.S., Rao, Ch.S., Rao, D.N. (**2012**) 'Review on application of response surface method based on design of experiments to welding processes', J manuf sci prod, 12(1), p.17-24
17. Thangarasu VS, Sivasubramanian R, (**2012**) 'Study of High Speed CNC Milling of Aluminium: Optimization of Parameters using Taguchi Based RSM', European Journal of Scientific Research ISSN 1450-216X Vol.74 No.3 (2012), pp. 350-363
18. Janmanee, P., Jamkamon, K., Kanchanasangtong, T., Muttamara, A. (**2012**) 'A study of surface hardness affecting in electrical discharge machining on AISI P20 plastic mould steel', Advanced Materials Research, 557-559 , pp. 1791-1796
19. Chhabra, M., Singh, R. (**2012**), 'Obtaining desired surface roughness of castings produced using ZCast direct metal casting process through Taguchi's experimental approach', Rapid Prototyping Journal, 18 (6), pp. 458-471
20. Khani Sanij, M.H., Ghasemi Banadkouki, S.S., Mashreghi, A.R., Moshrefifar, M. (**2012**), 'The effect of single and double quenching and tempering heat treatments on the microstructure and mechanical properties of AISI 4140 steel', Materials and Design 42 , pp. 339-346
21. S Kumar, M Gupta, PS Satsangi, HK Sardana (2012), Cutting forces optimization in the turning of UD-GFRP composites under different cutting environment with polycrystalline diamond tool, International Journal of Engineering, Science and Technology, Vol. 4, No. 2, pp. 106-121
22. Martínez, J., Diéguez, J.L., Pereira, A., Pérez, J.A. (**2012**) 'Modelization of surface roughness in FDM parts' AIP conferences proceedings (MESIC 2011), Vol. 1431, pp.849-856
23. Jiayun Hai, Li Gang, Zhu Lixin, Song Yingjie (**2012**), Polycrystalline cubic boron nitride cutting edge EDM Process, electrical processing and mold, 2012 - cqvip.com
    聚晶立方氮化硼刀具刃口放电加工工艺研究
    贾云海， 李建钢， 朱立新， 宋英杰 - 电加工与模具, 2012 - cqvip.com
24. Palace Navy Wang Mou Lu Wang Yang (**2012**), Superposition of metal materials manufacturing technology and its application in the tool manufacturing2012 - cqvip.com
    金属材料的叠加制造技术及其在工具制造中的应用
    宫海军 王懋露 王扬 哈尔滨工业大学机电工程学院 黑龙江哈尔滨

2011

25. Sreenivasan PR, (**2011**), "Inverse of Wallin's relation for the effect of strain rate on the ASTM E-1921 reference temperature and its application to reference temperature estimation from Charpy tests", Nuclear Engineering and Design, Vol. 241 (1), pp. 67-81.
26. Chen F, Cui Z, Chen S (**2011**) 'Recrystallization of 30Cr2Ni4MoV ultra-super-critical rotor steel during hot deformation. Part I: Dynamic recrystallization', Materials Science and Engineering A 528 (15), pp. 5073-5080

27. Xiao Xun Zhang, Yun Hua Sun, Ye Ling Zhu (**2011**), 'Microstructure Evolution and Control of 30Cr2Ni4MoV Steel During Hot Forming', Advanced Materials Research, Vol. 317-319, 170
28. Pilipović, A., Raos, P., Šercer, M. (**2011**), "Experimental testing of quality of polymer parts produced by laminated object manufacturing – LOM", Tehnicki Vjesnik 18 (2), pp. 253-260
29. Pilipović, A., Raos, P., Šercer, M. (**2011**), "Experimental testing of quality of polymer parts produced by laminated object manufacturing – LOM", Tehnicki Vjesnik 18 (2), pp. 253-260
30. Luca Di Angelo & Paolo Di Stefano(**2011**), 'A neural network-based build time estimator for layer manufactured objects', Int J Adv Manuf Technol, 57 (1-4), pp. 215-224.
31. Boby John (**2011**), "Simultaneous optimization of multiple performance characteristics of carbonitrided pellets: a case study", Int J Adv Manuf Technol, DOI 10.1007/s00170-011-3751-2.
32. Rita Gamberini , Bianca Rimini, Luca Galloni, Andrea Baroni (**2011**), "Design and experimental analysis of a prototype waterjet facility for cathode ray tube cutting: evidence from a case study", International Journal of Experimental Design and Process Optimisation, Vol 2(4), pp. 299 – 317
33. Bhola Jha, K.Ram and Mohan Rao (**2011**), "An overview of technology and research in electrode design and manufacturing in sinking electrical discharge machining", Journal of Engineering Science and Technology Review, Vol. 4 (2), pp.118-130
34. Yun Hai Jia, Jian Gang Li, Xue Jun Lu (**2011**), "Study on EDM Machining Technics of Polycrystalline Diamond Cutting Tool and PCD Cutting Tool's Life", Advanced Materials Research, Vols. 268-270, pp.309-315
35. Y. H. Çelik, C. Özek (**2011**), Research for the Effects of Operation Parameters on Cutting Quality in CNC Plasma Cutting, 6th International Advanced Technologies Symposium (IATS'11), 16-18 May 2011, Elazığ, Turkey.
36. Stefano Filippi (2011), 'CAD and the Rapid Construction of Physical Objects', Innovation in Product Design-From CAD to Virtual Prototyping (Editors: Monica Bordegoni, Caterina Rizzi), pp 167-184
37. Nishant Sharma (**2011**), Study of process parameters in plasma arc machining process, Master of Engineering, Mechanical Engineering Dept., Thapar University, India.

2010

38. Angelo L, Stefano P (**2010**), "Parametric cost analysis for web-based e-commerce of layer manufactured objects", International Journal of Production Research, Vol. 48 (7), pp.2127-2140.
39. F Huetten (2010), ECM Electrode, EP Patent App. 20,100,172,642, 2010
40. Nezhad A S, Vatani M, Barazandeh F, Rahimi A (**2010**), 'Build time estimator for determining optimal part orientation', Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 224 (12), pp. 1905-1913.
41. Nezhad A S, Vatani M, Barazandeh F, Rahimi A (**2010**), 'Build time estimator for determining optimal part orientation', Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 224 (12), pp. 1905-1913.
42. Carlos Henrique Pereira Mello et al (**2010**), 'Analysis of dimensional and surface quality of parts produced by fused deposition modeling (FDM)', Revista Produção Online, v.10, n.3, p. 504-523.
43. Lin Gu, Lei Li, Wan Sheng Zhao, K.P. Rajurkar (**2010**), "Performance of Bunched-Electrode in EDM", Key Engineering Materials, Vol. 447 - 448, pp. 282-286.
44. Sriani T and Aoyama H (**2010**), "Novel Tool Design Method for Orbiting EDM-A 2nd Approach on Design Automation Developed in CAD-", Journal of Advanced Mechanical Design, Systems, and Manufacturing, Vol. 4 (2010) , No. 7 pp.1261-1271

45. Naiju CD, Adithan M, Radhakrishnan P (**2010**), “Evaluation of fatigue strength for the reliability of parts produced by direct metal laser sintering (DMLS)”, International Journal of Rapid Manufacturing, Vol. 1(4), pp.377-389.
46. Chandramohan D, Marimuthu K, Rajesh S, Ravikumar MM (**2010**), ’Application of Advanced Design and Development Techniques in Orthopaedics’, International Journal of Applied Engineering Research. Vol 5 (9), pp. 1653–1666: Print ISSN : 0973-4562.
47. ЮС Елисеев – (**2010**) - baumanpress.ru, http://baumanpress.ru/books/312/312.pdf.
48. Chen, Jack Szu-Shen (**2010**), Distortion-free tolerance-based layer setup optimization for layered manufacturing, Master of Applied Science – MASc, (http://circle.ubc.ca/handle/2429/27268).

2009

49. Gomes CM, Rambo CR, Oliveira APN, Hotza D, Gouvea D, Travitzky N, Greily P (**2009**), “Colloidal Processing of Glass–Ceramics for Laminated Object Manufacturing”, Journal of the American Ceramic Society Vol 92 (6), pp.1186–1191.
50. Zhang M, Guo D, Jin Z (**2009**), “EDM performance of electroformed Cu-ZrBDN2/DN shell electrodes”, Rapid Prototyping Journal, Vol 15 (2), pp. 150-156.
51. Chen F, Cui Z, Liu J, Zhang X, Chen W (**2009**), “Modeling and simulation on dynamic recrystallization of 30Cr2Ni4MoV rotor steel using the cellular automaton method”, Modelling and Simulation in Materials Science and Engineering, Vol. 17(7), doi: 10.1088/0965-0393/17/7/075015
52. Boby John (**2011**), “Optimization of actuator performance using robust engineering and feature selection methodologies: A case study”, International Journal of Productivity and Performance Management, 10.1108/17410401111150797.
53. Hassan NH, Mohd Zain N, Wahab MS, Ibrahim M (**2009**), “Fabrication of MMC material for EDM electrode”, SCOReD2009 - Proceedings of 2009 IEEE Student Conference on Research and Development, art. no. 5443046, pp. 262-265.
54. Vejandla, D.T. (**2009**), “Optimizing the Automated Plasma Cutting Process by Design of Experiment”, Theses and Dissertations-Ingram School of Engineering, Texas State University-San Marcos, (http://ecommons.txstate.edu/ingrschetad/1), as on 19 August 2009.

2008

55. Abdollah-Zadeh A, Salemi A, Assadi H (**2008**), ‘Mechanical behavior of CrMo steel with tempered martensite and ferrite–bainite–martensite microstructure’, Materials Science and Engineering A, Vol. A 483–484, pp. 325–328.
56. Leskovsek V (**2008**), "Correlation between the Klc, the HRc and the charpy V-notch test results for H11/H13 hot-work tool steels at room temperature", Steel Research International, Vol. 79(4), pp.306-313.
57. Salemi A, Abdollah-Zadehb A, Mirzaeic M, Assadib H (**2008**), "A study on fracture properties of multiphase microstructures of a CrMo steel", Materials Science and Engineering A, Vol 492, pp.45–48.
58. Campbell I, Combrinck J, Beer D, Barnard L (**2008**), “Stereolithography build time estimationbased on volumetric calculations”, Rapid Prototyping Journal, Vol14(5), pp.271–279.
59. Sreenivasan PR (**2008**), “Estimation of ASTM E-1921 reference temperature from Charpy tests: Charpy energy-fracture toughness correlation method”, Engineering Fracture Mechanics, Vol 75, pp. 5229–45.

Before 2007

60. Kassab Sadek Z., Naby Ahmed A. Abdel, Azouz Ali (**2006**), “Use of the Belt Skimmer to Recover Oil following Accidental Spills - Laboratory Studies Defining Environmental Parameters”, International Journal of Applied Engineering Research, Vol 1 (1), pp. 119-134, Print ISSN : 0973-4562.
61. Kulekci MK, Mendi F, Sevim I, Basturk O (**2005**), ‘Fracture toughness of friction stir welded joints of AlCu4SiMg aluminium alloy’, Metalurgija, Vol. 44 No. 3, pp. 209-213.
62. NING YU (**2005**), Process parameter optimization for direct metal laser sintering (DMLS), PhD Thesis, NAS

63. Chryssolouris G, Zannis S, Derdas C, Tsirbas K (**2003**), 'Dimensional accuracy of FDM parts', CIRP Journal of Manufacturing Systems, Vol. 32 No. 5.
64. Salonitis, K., Tsoukantas, G., Stavropoulos, P., Stournaras, A. (**2003**), "A critical review of stereolithography process modeling", 1st International Conference on Advanced Research in Virtual and Rapid Prototyping, VRAP 2003; Leiria; 1 October 2003 through 4 October 2003; Code 84673.
65. Campbell RI, Martorelli M, Lee HS (**2002**), 'Surface roughness visualisation for rapid prototyping models', Computer-Aided Design, Vol. 34 No.10, pp. 717-725.
66. Giannatsis J, Dedoussis V, Laios L. (**2001**) 'A study of the build-time estimation problem for Stereolithography systems' Robotics and Computer Integrated Manufacturing, Vol. 17, pp. 295-304.
67. Χρυσολούρης και συνεργάτες (**2000**), "Σημειώσεις του εργαστηρίου Συστημάτων παραγωγής και αυτοματισμού", εκδ. Παν. Πατρών.
68. J Giannatsis, V Dedoussis, L Laios (1999), 'Build-Time Estimation Tools for Rapid Prototyping Stereolithography Systems', Advanced Manufacturing (Springer, 1999), pp 373-384.

RESEARCH PROJECTS

TEI Of Larissa

-Intelligent system for highly reconfigurable operations utilizing sensing and automation technology (University of Patras) (accepted), Team Coordinator.

-Archimedes III, 'The effect of tolerances in machining and in assembly process' (TEI of Western Macedonia), External Research Assistant

-(Gr) Προηγμένες υπηρεσίες ηλεκτρονικής μάθησης στο ΤΕΙ Λάρισας (ΕΕ): Ι. Εκπαιδευτικό υλικό για το μάθημα Εργαλειομηχανές CNC

-(Gr) Ενθάρρυνση καινοτομικών εφαρμογών και μαθημάτων επιλογής φοιτητών και σπουδαστών ΤΕΙ Λάρισας και Λαμίας – Please Enter (ΕΕ): Ι. Συγγραφή Μελέτης Περίπτωσης

University of Patras
Research Assistant

ESPRIT PROJECT No 26498 Integration of Business Function in Manufacturing – A best practice approach (EE)

(Gr) RETEX - Μελέτη σχεδιασμού και εγκατάστασης της μεθόδου ταχείας πρωτοτυποποίησης για την κατασκευή μοντέλων καθισμάτων (ΤΕΟΚΑΡ ΑΒΕΕ)

(Gr) FLAME- Μηχανολογία ευέλικτης συναρμολόγησης και κατασκευής (ΓΓΕΤ-ΕΠΕΤ ΙΙ)

(Gr) ΑΡΤΕΜΙΣ - Ολοκληρωμένα συστήματα παρακολούθησης παραγωγικής διαδικασίας στην χαρτοβιομηχανία (ΓΓΕΤ-ΕΠΕΤ ΙΙ)

ESPRIT PROJECT N. 20903 (RIDER)- Real time decision making in manufacturing (EE)

BRPR-CT95-0066 - Digital Mock-Up process for product conception and downstream processes-DMU (EE)

ESPRIT PROJECT N.22367-QUETA - Quality engineering tools for assemply and small bactches manufacturing (EE)

BRPR CT96-0283-INTEGRITY – Integration of heat treatment into machine-tools by using advanced grinding technology (EE)

BRST-CT97-5145 - Development of a high power laser based machine for the production of moulds form laminations (EE)

BRPR-CT98-0741-VIRTUE - Virtual reality environment for the simulation of critical industrial processes involving human intervention (EE)

Supervisor of student Thesis

(Gr) Λαγογιάννης Κων/νος, (2005), Γραμμική ελαστική ανάλυση μηχανολογικών εργαλείων με τη βοήθεια της μεθόδου των πεπερασμένων στοιχείων, ΤΕΙ Λάρισας.

(Gr) Κυριάκος Νικόλαος (2005), Εφαρμογή διαχείρισης ποιότητας σε τεχνική εταιρία σύμφωνα με τις απαιτήσεις του προτύπου ISO 9001:2000, ΤΕΙ Λάρισας.

(Gr) Καμπάς Χ., Καπλάνης Κ. (2006), Ανάλυση με πεπερασμένα στοιχεία της ορθογωνικής κοπής – εφαρμογή σε τόρνευση με υψηλές ταχύτητες, ΤΕΙ Λάρισας.

(Gr) Τσούρας Βασίλειος (2006), Εφαρμογές Ταχείας Πρωτοτυποποίησης στα ηλεκτρόδια EDM, ΤΕΙ ΛΑΡΙΣΑΣ.

(Gr) Τόλης Κωνσταντίνος (2007), Εφαρμογές της Ταχείας Πρωτοτυποποίησης στην επιστήμη της Ιατρικής, ΤΕΙ Λάρισας.

(Gr) Κακαράντζας Γεώργιος (2007), Πειραματική διερεύνηση επίδρασης των παραμέτρων κοπής στην επιφανειακή ποιότητα των κομματιών – Μοντελοποίηση με Νευρωνικά Δίκτυα, ΤΕΙ Λάρισας.

(Gr) Ταλάρου Γεωργία (2008), Προσομοίωση της ορθογωνικής κοπής – Προσδιορισμός του θερμοκρασιακού πεδίου του τεμαχίου και του κοπτικού εργαλείου, ΤΕΙ Λάρισας.

(Gr) Αποστόλου Οδυσσέας (2009), Μελέτη ενεργητικής & παθητικής πυρασφάλειας σε βρεφονηπιακό σταθμό, ΤΕΙ Λάρισας.

(Gr) Μαγγίνας Κωνσταντίνος (2009), Εισαγωγή στη μοντελοποίηση με laser – Εφαρμογή στην διαδικασία της τόρνευσης, ΤΕΙ Λάρισας.

(Gr) Μπίλλης Μιχάλης (2009), Κοπή με πλάσμα- Βελτιστοποίηση παραμέτρων κοπής, ΤΕΙ Λάρισας.

(Gr) Μπάντζης Δημήτριος (2009), Πειραματική διερεύνηση επίδρασης των παραμέτρων κοπής στην επιφανειακή ποιότητα του κομματιού. Εφαρμογή σε δοκίμια μη σιδηρούχων μετάλλων, ΤΕΙ Λάρισας.

(Gr) Ντούτσιας Θεόδωρος (2009), Κατασκευή μήτρας για χύτευση κεριού σε φρέζα CNC, ΤΕΙ Λάρισας.

(Gr) Ζιώγας Χρήστος (2009), Βελτιστοποίηση Παραμέτρων κοπής με την μέθοδο Taguchi, ΤΕΙ Λάρισας.

(Gr) Δημητρόπουλος Χρήστος (2010), αλγοριθμοι ψηφιακου ελεγχου της τροχιασ ηλεκροδιων κυλινδρικησ μορφησ για ηλεκτροδιαβρωση ελευθερου σχηματοσ, ΤΕΙ Λάρισας.

(Gr) Ραμπαβίλας Θεόδωρος, (2010), σχεδιασμοσ εξαρτηματων σε σχεδιαστικο προγραμμα 3d, ΤΕΙ Λάρισας.

(Gr) Κωσταδήμας Ευάγγελος, Παρδάλης Ορέστης (2010), ΣΧΕΔΙΑΣΜΟΣ & ΚΑΤΑΣΚΕΥΗ ΕΞΑΡΤΗΜΑΤΩΝ ΣΕ ΚΕΝΤΡΟ CNC ΜΕ ΧΡΗΣΗ ΠΡΟΓΡΑΜΜΑΤΟΣ CAM, ΤΕΙ Λάρισας.

(Gr) Γεωργία Σέμπου (2011), Κοπή με Laser, ΤΕΙ Λάρισας.

(Gr) Γαβριήλ Ιωάννης, Κακουλίδης Βασίλειος (2012), Κατασκευή πρωτότυπου (ελεύθερου σχήματος) με φραίζα CNC – Τεχνικές βελτιστοποίησης και κατασκευής με 21/2 βε φραίζα CNC, ΤΕΙ Λάρισας.

(Gr) Χατζηγεωργίου Ονούφριος (2012), Μέθοδοι και ανάλυση χύτευσης, ΤΕΙ Λάρισας.

(Gr) Osmanai Erion (2012), Έλαση και Διέλαση Αλουμινίου, ΤΕΙ Λάρισας.

(Gr) Βλαχόλπουλος Αντώνιος, Κουιμάνης Κων/νος (2013), Διεργασία χύτευσης με έγχυση πολυμερικών τηγμάτων – Εφαρμογή σχεδιασμού εξαρτήματος με χρήση 3d μοντελοποίηση.

(Gr) ΜΠΥΡΛΗΣ ΚΥΡΙΑΚΟΣ (2013), ΔΙΑΤΡΗΣΗ ΣΥΝΘΕΤΩΝ ΕΛΑΣΜΑΤΩΝ

(Gr) Ραυτογιάννης Δημήτριος (2013), ΚΑΤΕΡΓΑΣΙΑ ΜΕ ΕΚΤΟΞΕΥΣΗ ΝΕΡΟΥ ΥΨΗΛΗΣ ΠΙΕΣΗΣ<<ΥΔΡΟΚΟΠΗ>>