

ΑΧΙΛΛΕΑΣ ΒΑΪΡΗΣ

Βιογραφικό Σημείωμα

## ΣΠΟΥΔΕΣ

♦ Δεκέμβριος 1997

### **Διδακτορικό Δίπλωμα**

Τίτλος εργασίας : “Υψηλόσυχνος παλινδρομική συγκόλληση με τριβή”  
“High frequency linear friction welding”

Τμήμα Μηχανολόγων Μηχανικών, Πανεπιστήμιο του Bristol, Bristol , Αγγλία

♦ Ιούλιος 1988

### **Master of Engineering, Μηχανολόγος Μηχανικός**

Τμήμα Μηχανολόγων Μηχανικών, Πανεπιστήμιο του Bristol, Bristol , Αγγλία

- ❖ Χορηγήθηκε υποτροφία (sponsorship) από την εταιρεία Procter & Gamble Ltd (UK) κατά την διάρκεια του 2<sup>ου</sup> , 3<sup>ου</sup> και 4<sup>ου</sup> έτους των σπουδών μηχανολόγου μηχανικού.

## ΕΠΑΓΓΕΛΜΑΤΙΚΗ ΕΜΠΕΙΡΙΑ

### ♦ **Αύγουστος 2022 –**

**Καθηγητής**  
**Τμήμα Μηχανολόγων Μηχανικών**  
**Σχολή Μηχανικών**  
**Πανεπιστήμιο Δυτικής Αττικής**

Γνωστικό αντικείμενο «Στοιχεία Μηχανών – Κατασκευαστικές Τεχνολογίες»

### ♦ **Μάιος 2019 – Αύγουστος 2022**

**Καθηγητής**  
**Τμήμα Μηχανολόγων Μηχανικών**  
**Σχολή Μηχανικών**  
**Ελληνικό Μεσογειακό Πανεπιστήμιο**

Γνωστικό αντικείμενο «Στοιχεία Μηχανών – Κατασκευαστικές Τεχνολογίες»

### ♦ **Αύγουστος 2016 – Αύγουστος 2018**

**Καθηγητής**  
**Τμήμα Μηχανολόγων Μηχανικών**  
**State University of New York Korea**  
**Seoul**  
**Δημοκρατία της Κορέας**

### ♦ **Σεπτέμβριος 2016 –**

**Επισκέπτης Καθηγητής**  
**School of Materials Science and Engineering**  
**Northwestern Polytechnical University**  
**Χί'Αν**  
**Λ.Δ. Κίνας**

### ♦ **Ιούλιος 2014 – Μάιος 2019**

**Καθηγητής**  
**Τμήμα Μηχανολόγων Μηχανικών Τ.Ε.**  
**Σχολή Τεχνολογικών Εφαρμογών**  
**ΤΕΙ Κρήτης**

### ♦ **Οκτώβριος 2008 – Ιούλιος 2014**

**Αναπληρωτής Καθηγητής**  
**Τμήμα Μηχανολόγων Μηχανικών Τ.Ε.**  
**Σχολή Τεχνολογικών Εφαρμογών**  
**ΤΕΙ Κρήτης**

### ♦ **Φεβρουάριος 2013 – Ιούνιος 2013**

**Επισκέπτης καθηγητής Τμήμα Τεχνολογίας Πετρελαίου & Φυσικού Αερίου**  
**ΤΕΙ Καβάλας**

Διδασκαλία στο μεταπτυχιακό πρόγραμμα σπουδών «Oil & Gas Technology»

### ♦ **Ιούνιος 2003 – Οκτώβριος 2008**

**Επίκουρος Καθηγητής**  
**Τμήμα Μηχανολογίας**

**Σχολή Τεχνολογικών Εφαρμογών  
ΤΕΙ Κρήτης**

♦ *Μάιος 2000 – Ιούλιος 2003*

**Μηχανολόγος μηχανικός  
Τομέας Κερμάτων και Συντήρησης  
Ίδρυμα Εκτυπώσεως Τραπεζογραμματίων και Αξιών  
Τράπεζα της Ελλάδος**

♦ *Αύγουστος 1998 – Δεκέμβριος 1999*

**Επιστημονικός συνεργάτης  
Εθνικό Μετσόβιο Πολυτεχνείο**

♦ *Δεκέμβριος 1999 – Απρίλιος 2000*

**Μέλος επιτροπής σύνταξης οδηγού κατάρτισης  
Οργανισμός Επαγγελματικής Εκπαίδευσης και Κατάρτισης  
Αθήνα**

♦ *Φεβρουάριος 2000 – Ιούνιος 2000*

**Εκπαιδευτής  
ΙΕΚ Γαλασίου  
Αθήνα**

♦ *Φεβρουάριος 2000 – Ιούνιος 2000*

**Εκπαιδευτής  
ΙΕΚ Χαλανδρίου  
Αθήνα**

♦ *Νοέμβριος 1999 – Μάιος 2000*

**Εργαστηριακός Συνεργάτης  
Τμήμα Ενεργειακής Τεχνικής  
Σχολή Τεχνολογικών Εφαρμογών  
ΤΕΙ Αθήνας**

♦ *Σεπτέμβριος 1998 – Αύγουστος 2000*

**Καθηγητής Σχολής Μηχανικών Αεροπορίας  
Σχολή Ικάρων  
Τατόι**

♦ *Σεπτέμβριος 1998 – Ιούνιος 1999*

**Επιστημονικός Συνεργάτης  
Ινστιτούτο Φυσικοχημείας  
ΕΚΕΦΕ “Δημόκριτος”  
Αθήνα**

♦ *Σεπτέμβριος 1998 – Ιούνιος 1999*

**Καθηγητής  
Ανώτατη Σχολή Τεχνικής Εκπαιδεύσεως Αξιωματικών (ΤΧ)  
Άγιοι Ανάργυροι  
Αττική**

♦ *Φεβρουάριος 1993 – Ιανουάριος 1995*

**Ερευνητής (Research Fellow)**  
**Advanced Manufacturing and Automation Research Centre,**  
**Πανεπιστήμιο του Bristol**  
**Bristol**  
**Αγγλία**

♦ *Σεπτέμβριος 1992 – Ιανουάριος 1993*  
**Μηχανολόγος μηχανικός**  
**Οργανισμός Βιομηχανικής Ιδιοκτησίας**  
**Αθήνα**

♦ *Μάρτιος 1991 – Σεπτέμβριος 1992*  
**Μηχανολόγος μηχανικός**  
**Τμήμα Βιομηχανικών Οχημάτων,**  
**Toyota Hellas A.E.**  
**Αθήνα**

♦ *Ιούλιος 1990 – Μάρτιος 1991*  
**Μηχανολόγος μηχανικός**  
**Τμήμα Βιομηχανικών Αυτοματισμών,**  
**Intrasoft A.E.**  
**Αθήνα**

♦ *Ιούνιος 1987 - Αύγουστος 1987*  
♦ *Ιούνιος 1986 - Σεπτέμβριος 1986*  
**Εκπαιδευόμενος μηχανολόγος μηχανικός**  
**Procter & Gamble Ltd. (U.K.)**  
**Newcastle Upon Tyne**  
**Αγγλία**

## ΕΠΙΣΤΗΜΟΝΙΚΕΣ ΔΗΜΟΣΙΕΥΣΕΙΣ

### ΣΕ ΔΙΕΘΝΗ ΕΠΙΣΤΗΜΟΝΙΚΑ ΠΕΡΙΟΔΙΚΑ ΜΕ ΣΥΣΤΗΜΑ ΚΡΙΤΩΝ

1. Vairis, A., “Investigation of frictional behaviour of various materials under sliding conditions”, *European Journal of Mechanics A - Solids*, 1997, vol.16, no.6, pp.929-945. (IF: 2.931) (Q1)
2. Vairis, A., Frost, M., “High frequency linear friction welding of a titanium alloy”, *Wear*, 1998 vol.217, no.1, pp.117-131. DOI: 10.1016/S0043-1648(98)00145-8 (IF: 2.950) (Q1)
3. Vairis, A., Frost, M., “On the extrusion stage of linear friction welding of Ti 6Al 4V”, *Materials Science and Engineering A*, 1999, vol.271, pp.477-484. DOI: 10.1016/S0921-5093(99)00449-9 (IF: 3.414) (Q1)
4. Vairis, A., Frost, M., “Modelling the linear friction welding of titanium blocks”, *Materials Science and Engineering A*, 2000, vol.292, no.1, pp.8-17. DOI: 10.1016/S0921-5093(00)01036-4 (IF: 3.414) (Q1)
5. Vairis, A., Frost, M., “Design and commissioning of a friction welding machine”, *Journal of Materials and Manufacturing Processes*, 2006, vol.21, no.8, pp. 766-773. DOI: 10.1080/03602550600728356 (IF: 2.274) (Q1)
6. Vairis, A., Christakis, N., “The development of a continuum framework for friction welding processes with the aid of micro-mechanical parameterisations”, *International Journal of Modelling, Identification and Control*, 2007, vol.2, no.4. pp.347-356. DOI: 10.1504/IJMIC.2007.016417 (IF: 1.229) (Q3)
7. Christakis, N., Vairis, A., “An Analytical Description of the Frictional Behaviour of a Titanium Alloy”, *Research Letters in Materials Science*, vol.2007, article ID 92170. (IF: 1.399) (Q2)
8. Vernardou, D., Kenanakis, G., Vlachou, K., Koudoumas, E., Kiriakidis, G., Vairis, A., Katsarakis, N., “Influence of Solution Concentration and Temperature on the Aqueous Chemical Growth of Zinc Oxide Structures”, *Physica Status Solidi A*, 2008, vol.5, no.10, pp.3348–3352. DOI: 10.1002/pssc.200778879 (IF: 3.721) (Q2)
9. Vairis, A., “Superplasticity Effects and Strain Rate Dependency in a Material Joining Process”, *Journal of Engineering Science and Technology Review*, 2008, vol.1, pp.28-32. DOI: 10.25103/jestr.021.19 (Q3)
10. Vairis, A., Petousis, M., “Designing experiments to study welding processes: using the Taguchi method”, *Journal of Engineering Science and Technology Review*, 2009, vol.2, no.1, pp.99-103. (Q3)
11. Petousis, M., Vairis, A., Kandyla, B., Stefanoudakis, G., Vidakis, N., “A study on a reconstructed anterior cruciate ligament”, *Advanced Materials Research*, 2012, vol.433-440, pp.763-769. DOI: 10.4028/www.scientific.net/AMR.433-440.763
12. Li, W.Y., Shi, S.X., Wang, F.F., Ma, T.J., Li, J.L., Gao, D.L., Vairis, A., “Heat Reflux in Flash and Its Effect on Joint Temperature History during Linear Friction Welding of Steel”, *International Journal of Thermal Sciences*, 2013, vol.67, pp.192-199. DOI: 10.1016/j.ijthermalsci.2012.12.004 (IF: 3.488) (Q1)

13. Yamileva, A.M., Medvedev, A.Yu., Nasibullayev, I.Sh., Selivanov, A.S., Gazizov, R.K., Vairis, A., "A two-parameter 2D-model of the elastic stage of linear friction welding using ANSYS Mechanical finite element analysis programme", *Journal of Engineering Science and Technology Review*, 2012, vol.5, no.3, pp.6-9. DOI: 10.25103/jestr.053.02 (Q3)
14. Vairis, A., "Mathematical modelling of the linear friction welding process", *Journal of Engineering Science and Technology Review*, 2012, vol.5, no.3, pp.25-31. DOI: 10.25103/jestr.053.04 (Q3)
15. Medvedev, A., Vairis, A., Nikiforov, R., Supov., A., "Energy balance of the linear friction welding process", *Journal of Engineering Science and Technology Review*, 2012, vol.5, no.3, pp.20-24. (Q3)
16. Yamileva, A.M., Medvedev, A.Yu., Nasibullayev, I. Sh., Alexandrov, I.V., Vairis, A., «Construction of two-dimensional model of a linear friction welding process including forging stage», *Vestnik USATU*. Ufa, Russia, 2012. vol.16, No 7 (52). pp.117-121. (In Russian).
17. Chukalova, A.O., Yamileva, A.M., Nasibullayev, I.Sh., Vairis, A., "The influence of the material parameters varying on dynamics of linear friction welding process", *Vestnik USATU*. Ufa, Russia, 2012. vol.16, No 7 (52). pp.128-132. (In Russian)
18. Favvas, E., Stefanopoulos, K., Vairis, A., Nolan, J., Joensen, K., Mitropoulos, A., "In situ SAXS investigation of dibromomethane adsorption in ordered mesoporous silica", *Adsorption*, 2013, vol.19, no.2-4, pp 331-338. DOI: 10.1007/s10450-012-9455-6 (IF: 1.731) (Q2)
19. Fang, F., Li, W.Y., Li, J.L., Vairis, A., "Process parameter analysis of inertia friction welding nickel-based superalloy", *International Journal of Advanced Manufacturing Technology*, 2014, vol.71, pp.1090-1919. DOI: 10.1007/s00170-013-5569-6 (IF: 2.496) (Q1)
20. Vairis, A., Petousis, M., Vidakis, N., Stefanoudakis, G., Kandyla, B., "Finite element modelling of a novel anterior cruciate ligament repairing device", *Journal of Engineering Science and Technology Review*, 2013, vol.6, no.1, pp.1-6. DOI: 10.25103/jestr.061.01 (Q3)
21. Li, W.Y., Wang, F.F., Shi, S.X., Ma, T.J., Li, J.L., Vairis, A., "3D Finite Element Analysis of the Effect of Process Parameters on Linear Friction Welding of Mild Steel", *Journal of Materials Engineering and Performance*, 2014, vol.23, no.11, pp.4010-4018. DOI:10.1007/s11665-014-1197-z (IF: 1.476) (Q2)
22. Vairis, A., Petousis, M., Vidakis, N., Kandyla, B., Tsainis, A.M., "Evaluation of a PCL deficient human knee joint finite element model", *QScience Connect*, 2014, issue 2014.
23. Buffa, G., Cammalleri, M., Campanella, D., Fratini, L., Vairis, A., "Effective Linear Friction Welding Machine Redesign through Process Analysis", *Key Engineering Materials*, 2014, vol. 622-623, pp.484-491. DOI: 10.4028/www.scientific.net/KEM.622-623.484 (Q3)
24. Li, W.Y., Vairis, A., Ward, R.M., "Advances in friction welding", *Advances in Materials Science and Engineering*, 2014, vol.2014, art.no.204515. DOI: 10.1155/2014/204515 (IF: 1.399) (Q2)
25. Li, W.Y., Guo, J., Yang, X., Ma, T., Vairis, A., "The effect of micro-swinging on joint formation in linear friction welding", *Journal of Engineering Science and Technology Review*, 2014, vol.7, no.5, pp.55-58. DOI: 10.25103/jestr.075.15 (Q3)

26. Atroshenko, A., Vairis, A., Bichkov, V., Nikiforov, P., “ANSYS simulation of residual strains in butt-welded joints”, *Journal of Engineering Science and Technology Review*, 2014, vol.7, no.5, pp.9-11. DOI: 10.25103/jestr.075.03 (Q3)
27. Khalikova, G.R., Bikmeyer, A.T., Gazizov, R.K., Vairis, A., “A 2D Computer Model of Cutting of the A2024 Aluminum Alloy”, *Journal of Engineering Science and Technology Review*, 2014, vol.7, no.5, pp.24-28. DOI: 10.25103/jestr.075.07 (Q3)
28. Li, Y., Guo, J., Ma, T., Vairis, A., “Numerical Modeling of Linear Friction Welding: A literature review”, *China Welding*, 2014, vol.23, no.4.
29. Vairis, A., Stefanoudakis, G., Petousis, M., Vidakis, N., Tsainis, A.M., Kandyla, B., “Evaluation of an Intact, an ACL-Deficient and a Reconstructed Human Knee Joint Finite Element Model”, *Computer Methods in Biomechanics and Biomedical Engineering*, 2016, vol.19, no.3, pp.263-270. DOI: 10.1080/10255842.2015.1015526 (IF: 1.610) (Q3)
30. Zhang, Z., Li; W., Li; J., Chao; Y.J., Vairis, A., “Microstructure and anisotropic mechanical behavior of friction stir welded AA2024 alloy sheets”, *Materials Characterization*, 2015, vol.107, pp.112-118. DOI: 10.1016/j.matchar.2015.06.039 (IF: 2.892) (Q1)
31. Li, W., Vairis, A., Preuss; M., Ma, T., “Linear and Rotary Friction Welding review”, *International Materials Reviews*, 2015, vol.61, no.2, pp.71-100. DOI: 10.1080/09506608.2015.1109214 (IF: 7.48) (Q1) **REVIEW PAPER**
32. Alexopoulos, A., Favvas, E.P., Vairis, A., Mitropoulos, A.Ch., “MWCNTs/resin nanocomposites: structural, thermal, mechanical and dielectric investigation”, *Journal of Engineering Science and Technology Review*, 2015, vol.8, no.4, pp.7-14. DOI: 10.25103/jestr.084.02 (Q3)
33. Nikiforov, R., Medvedev, A., Tarasenko, E., Vairis, A., “Numerical simulation of residual stresses in linear friction welded joints”, *Journal of Engineering Science and Technology Review*, 2015, vol.8, no.6, pp.49-53. DOI: 10.25103/jestr.086.13 (Q3)
34. Yamileva, A., Gazizov, R.K., Vairis, A., “Computer modelling of the effect of clamping in linear friction welding”, *Journal of Engineering Science and Technology Review*, 2015, vol.8, no.6, pp.65-68. DOI: 10.25103/jestr.086.17 (Q3)
35. Bikmeyer, A.T., Gazizov, R.K., Yamileva, A., Vairis, A., Zheleznov, F.O., “On the visualization of joint formation during linear friction welding”, *Journal of Engineering Science and Technology Review*, 2015, vol.8, no.6, pp.69-72. DOI: 10.25103/jestr.086.18 (Q3)
36. Vairis, A., Petousis, M., Vidakis, N., Savvakis, K., “On the Strain Rate Sensitivity of Abs and Abs Plus Fused Deposition Modelling Parts”, *Journal of Materials Engineering and Performance*, 2016, DOI:10.1007/s11665-016-2198-x. (IF: 1.476) (Q2)
37. Vidakis, N., Vairis, A., Diouf, D., Petousis, M., Savvakis, K., Tsainis, A.M., “Effect of the tool rotational speed on the mechanical properties of thin AA1050 friction stir welded sheets”, *Journal of Engineering Science and Technology Review*, 2016, vol.9, no.3, pp.123-129. DOI: 10.25103/jestr.093.18 (Q3)
38. Vidakis, N., Vairis, A., Petousis, M., Savvakis, K., Kechagias, J., “Fused Deposition Modelling Parts Tensile Strength Characterisation”, *Academic Journal of Manufacturing Engineering*, 2016, vol.14, no.2, pp.87-94. (Q2)



39. Vairis, A., Papazafeiropoulos, G., Tsainis, A.M., "A Comparison Between Friction Stir Welding, Linear Friction Welding and Rotary Friction Welding", *Advances in Manufacturing*, 2016, vol.4, no.4 pp.296-304. DOI: 10.1007/s40436-016-0163-4 (IF: 1.603) (Q1)
40. Fu, Y., Li, W., Yang, X., Ma, T., Vairis, A., "The effects of forging pressure and temperature field on residual stresses in linear friction welded Ti6Al4V joints", *Advances in Manufacturing*, 2016, vol.4, no.4 pp.314-321. DOI:10.1007/s40436-016-0161-6 (IF: 1.603) (Q1)
41. Wang, X.Y., Li, W., Ma, T., Vairis, A., "Characterisation studies of linear friction welded titanium joints", *Materials and Design*, 2017, vol.116, pp.115-126. DOI: 10.1016/j.matdes.2016.12.005 (IF: 4.364) (Q1)
42. Ma, T.J., Li, Y.G., Li, W.Y., Zhang, Y., Shi, D.G., Vairis, A., "Studies of the interfacial structure of a linear friction welded Fe/Ni joint: First principles calculation and TEM validation", *Materials Characterization*, 2017, vol.129, pp.60-66. DOI: 10.1016/j.matchar.2017.04.008 (IF: 2.892) (Q1)
43. Vidakis, N., Petousis, M., Vairis, A., Savvakis, K., Maniadi, A., "On the compressive behavior of an FDM Steward Platform part", *Journal of Computational Design and Engineering*, 2017, vol.4, no.4, pp. 339-346. DOI: 10.1016/j.jcde.2017.06.001 (IF: 1.775) (Q1)
44. Niu, P., Li, W.Y., Yang, X., Vairis, A., "Effects of microstructural asymmetries across friction-stir-welded AA2024 joints on mechanical properties", *Science and Technology of Welding and Joining*, 2017, DOI:10.1080/13621718.2017.1328765. (IF: 2.050) (Q1)
45. Li, W.Y., Li, N., Yang, X.W., Feng, Y., Vairis, A., "Impact of cold spraying on microstructure and mechanical properties of optimized friction stir welded AA2024-T3 joint", *Materials Science and Engineering A*, 2017, vol.702, pp. 73-80. DOI: 10.1016/j.msea.2017.07.003. (IF: 3.414) (Q1)
46. Li, W.Y., Chu, Q., Yang, X.W., Shen, J.J., Vairis, A., Wang, W.B., "Microstructure and morphology evolution of probeless friction stir spot welded joints of aluminum alloy", *Journal of Materials Processing Technology*, 2018, vol.252, pp. 69-80, DOI: 10.1016/j.jmst.2018.03.009. (IF:3.647) (Q1)
47. McAndrew, A., Colegrove, P.A., Buhr, C., Flipo, B., Vairis, A., "A Literature Review of Ti-6Al-4V Linear Friction Welding", *Progress in Materials Science*, 2018, vol.92, pp.225-257, DOI: 10.1016/j.pmatsci.2017.10.003. (IF: 31.140) (Q1) **REVIEW PAPER.**
48. Li, N., Li, W.Y., Yang, X.W., Feng, Y., Vairis, A., "An investigation into the mechanism for enhanced mechanical properties in friction stir welded AA2024-T3 joints coated with cold spraying", *Applied Surface Science*, 2018, vol.439, pp.623-631, DOI: 10.1016/j.apsusc.2018.01.049. (IF: 3.387) (Q1)
49. Chu, Q., Li, W.Y., Yang, X.W., Shen, J.J., Vairis, A., Feng, W.Y., Wang, W.B., "Microstructure and mechanical optimization of probeless friction stir spot welded joint of an Al-Li alloy", *Journal of Materials Science and Technology*, 2018, vol.34, no.10, pp.1739-1746. DOI: 10.1016/j.jmst.2018.03.009 (IF:2.764) (Q1)
50. Ma, TJ, Tang, LF, Li, WY, Zhang, Y, Xiao, Y, Vairis, A, "Linear friction welding of a solid-solution strengthened Ni-based superalloy: Microstructure evolution and mechanical properties studies", *Journal of Manufacturing Processes*, vol.34, pp.442-450. DOI: 10.1016/j.jmapro.2018.06.011 (IF: 3.462) (Q1)

51. Yang, K., Li, W., Yang, X., Xu, Y., Vairis, A., "Effect of heat treatment on the inherent anisotropy of cold sprayed copper deposits", *Surface & Coatings Technology*, vol.350, pp.519-530. DOI: 10.1016/j.surfcoat.2018.07.046 (IF:2.906) (Q1)
52. Chu, Q., Yang, X.W., Li, W.Y., Zhang, Y., Lu, T., Vairis, A., Wang, W.B., "On visualizing material flow and precipitate evolution during probeless friction stir spot welding of an Al-Li alloy", *Materials Characterization*, 2018, vol.144, pp. 336-344. DOI: 10.1016/j.matchar.2018.07.026 (IF:2.892) (Q1)
53. Su, Y., Li, W.Y., Wang, X., Ma, T., Yang, X., Vairis, A., "On microstructure and property differences in a linear friction welded near-alpha titanium alloy joint", *Journal of Manufacturing Processes*, 2018, vol.36, pp.255-263. DOI: 10.1016/j.jmapro.2018.10.017 (IF: 3.462) (Q1)
54. Chu, Q., Yang, X.Y., Li, W.Y., Wang, Vairis, A., Wang, WB., "Numerical analysis of material flow in the probeless friction stir spot welding based on Coupled Eulerian-Lagrangian approach", *Journal of Manufacturing Processes*, 2018, vol.36, pp.181-187. DOI: 10.1016/j.jmapro.2018.10.013 (IF: 3.462) (Q1)
55. Wang, X., Li, W.Y., Ma, T., Yang, X., Vairis, A., "Microstructural evolution and mechanical properties of a linear friction welded two-phase Ti-6.5 Al-3.5 Mo-1.5 Zr-0.3 Si titanium alloy joint", *Materials Science and Engineering A*, 2018, vol.743, pp.12-23, DOI: 10.1016/j.msea.2018.11.059. (IF:3.414) (Q1)
56. Chu, Q., Li, W.Y., Hou, H.L., Yang, X.Y., Vairis, A., Wang, C., Wang, W.B. "On the double-side probeless friction stir spot welding of AA2198 Al-Li alloy", *Journal of Materials Science and Technology*, 2018, vol.35, no.5, pp.784-789. DOI: 10.1016/j.jmst.2018.10.027 (IF: 2.764) (Q1)
57. Chu, Q., Yang, X.W., Li, W.Y., Lu, T., Zhang, Y., Vairis, A., "Impact of surface state in probeless friction stir spot welding of an Al-Li alloy", *Science and Technology of Welding and Joining*, vol.24, no.3, pp.200-208, 2019, DOI:10.1080/13621718.2018.1517966. (IF: 2.050) (Q1)
58. Li, N., Li, W.Y., Yang, X.W., Xu, Y., Vairis, A., "Corrosion characteristics and wear performance of cold sprayed coatings of reinforced Al deposited onto friction stir welded AA2024-T3 joints", *Surface & Coatings Technology*, vol.349, pp.1069-1076. DOI: 10.1016/j.surfcoat.2018.06.058. (IF: 2.906) (Q1)
59. Niu, P.L., Li, W.Y., Vairis, A., Chen, D.L., "Cyclic deformation behavior of friction-stir-welded dissimilar AA5083-to-AA2024 joints: Effect of microstructure and loading history", *Materials Science & Engineering A*, vol.744, pp.145-153. DOI: 10.1016/j.msea.2018.12.014 (IF: 3.414) (Q1)
60. Su, Y., Li, W.Y., Wang, X., Ma, T.J., Yang, X., Vairis, A., "Linear friction welding of titanium alloys: state-of-the-art and perspectives", *Materials China*, vol.36, no.11, pp.852-859. DOI: 10.7502/j.issn.1674-3962.2017.11.06 **REVIEW PAPER**
61. Patel, V., Li, W.Y., Wang, G., Wang, F., Vairis, A., Niu, P., "Friction Stir Welding of Dissimilar Aluminum Alloy Combinations: State-of-the-Art", *Metals*, vol.9, no.3, art.270, 2019, DOI: 10.3390/met9030270. (IF: 2.259) (Q2) **REVIEW PAPER**
62. Su, Y., Li, W.Y., Wang, X., Ma, T.J., Li, Y., Liu, Y., Vairis, A., "On the Process Variables and Weld Quality of a Linear Friction Welded Dissimilar Joint between S31042 and S34700 Austenitic Steels", *Advanced Engineering Materials*, 2019, vol.21, no.7, art.no.1801354, DOI: 10.1002/adem.201801354. (IF: 2.906) (Q1)

63. Patel, V., Li, W.Y., Vairis, A., Badheka, V., "Recent Development in Friction Stir Processing as a Solid-State Grain Refinement Technique: Microstructural Evolution and Property Enhancement", *Critical Reviews in Solid State and Materials Sciences*, 2019, vol.44, no.5, pp. 378-426, DOI: 10.1080/10408436.2018.1490251. (IF: 3.462) (Q1)
64. Wang, X., Li, W.Y., Ma, T., Yang, X., Vairis, A., "Effect of welding parameters on the microstructure and mechanical properties of linear friction welded Ti-6.5Al-3.5Mo-1.5Zr-0.3Si joints", *Journal of Manufacturing Processes*, 2019, vol.46, pp.100-108, DOI:10.1016/j.jmapro.2019.08.031. (IF: 3.462) (Q1)
65. Su, Y., Li, W.Y., Patel, V., Vairis, A., Wang, X., "Formability of an AA5083 aluminum alloy T-joint using SSFSW on both corners", *Materials and Manufacturing Processes*, 2019, vol.34, no.15, pp.1737-1744. DOI: 10.1080/10426914.2019.1669799 (IF: 3.350) (Q1)
66. Vidakis, N., Petousis, M., Vairis, A., Savvakis, K., Maniadi, A., "A parametric determination of bending and Charpy's impact strength of ABS and ABS-plus fused deposition modeling specimens", *Progress in Additive Manufacturing*, 2019, vol.4, no.3, pp.323-330. DOI:10.1007/s40964-019-00092-8 (IF: 2.591) (Q1)
67. Wen, Q., Li, W.Y., Patel, V., Gao, Y., Vairis, A., "Investigation on the Effects of Welding Speed on Bobbin Tool Friction Stir Welding of 2219 Aluminum Alloy", *Metals and Materials International*, 2020, vol.26, no.12, pp.1830-1840. DOI:10.1007/s12540-019-00450-9. (IF: 1.647) (Q1)
68. Brown, S., Vairis, A., Petousis, M., Masoumifar, A., "Common problems with the conventional design of crutches: proposing a safer design and discussing the potential impact", *Technology in Society*, 2020, vol.60, art.101215. DOI: 10.1016/j.techsoc.2019.101215 (IF:1.67) (Q2)
69. Wang, X., Li, W.Y., Qing, Y., Yang, X., Ma, T., Vairis, A., "Linear Friction Welding of a Beta Titanium Alloy: Experimental Investigations on Microstructure Evolution and Mechanical Properties", *Science and Technology of Welding and Joining*, 2020, vol.25, no.8, pp. 625-636. DOI:10.1080/13621718.2020.1823636 (IF: 2.050) (Q1)
70. Su, Y., Li, W.Y., Liu, X., Gao, F., Vairis, A., "Strengthening mechanism of friction stir welded alpha titanium alloy specially designed T-joints", *Journal of Manufacturing Processes*, 2020, vol.55, pp.1-12. DOI: 10.1016/j.jmapro.2020.03.032 (IF:4.086) (Q1)
71. Vidakis, N., Petousis, M., Maniadi, A., Koudoumas, E., Vairis, A., Kechagias, J., "Sustainable Additive Manufacturing: Mechanical Response of Acrylonitrile-Butadiene-Styrene over Multiple Recycling Processes", *Sustainability*, 2020, vol.12, no.9, pp.3568. DOI: 10.3390/su12093568 (IF: 2.592) (Q2)
72. Sapalidis, A., Karantzis, P., Vairis, A., Nitodas, S., Barbe, S., Favvas, E., "A Study of the Reinforcement Effect of MWCNTs onto Polyimide Flat Sheet Membranes", *Polymers*, 2020, vol.12, no.6, pp.1381. DOI: 10.3390/polym12061381. (IF:3.426) (Q1)
73. Wang, X., Li, W.Y., Ma, T., Yang, X., Vairis, A., Tao, J., "Microstructural heredity and its effect on mechanical properties of linear friction welded Ti-6.5 Al-3.5 Mo-1.5 Zr-0.3 Si alloy joints", *Materials Characterization*, 2020, vol.168, 110540. DOI: 10.1016/j.matchar.2020.110540. (IF:3.526) (Q1)

74. Wu, D., Li, W.Y., Gao, Y.J., Yang, J., Su, Y., Wen, Q., Vairis, A., "Effect of an improved pin design on weld formability and mechanical properties of adjustable-gap bobbin-tool friction stir welded Al-Cu aluminum alloy joints", *Journal of Manufacturing Processes*, 2020, vol.58, pp.1182-1188. DOI: 10.1016/j.jmapro.2020.09.015 (IF:4.086) (Q1)
75. Wu, D., Li, W.Y., Gao, Y., Yang, J., Wen, Q., Vidakis, N., Vairis, A., "Impact of travel speed on the microstructure and mechanical properties of adjustable-gap bobbin-tool friction stir welded Al-Mg joints", *International Journal of Minerals, Metallurgy and Materials*, 2020, vol.28, no.4, pp. 710-717. DOI: 10.1007/s12613-020-2134-9. (IF: 1.713) (Q2)
76. Dimopoulos, A., Vairis, A., Vidakis, N.; Petousis, M., "On the Friction Stir Welding of Al 7075 Thin Sheets", *Metals*, 2021, vol.11, no.1, 57, pp.1-12. DOI: 10.3390/met11010057 (IF:1.704) (Q2)
77. Zou, Y., Li, W.Y., Chu, Q., Shen, Z., Wang, F., Tang, H., Vairis, A., Liu, L., "The impact of macro/microstructure features on the mechanical properties of refill friction stir spot-welded joints of AA2219 alloy with a large thickness ratio", *The International Journal of Advanced Manufacturing Technology*, 2021, vol.112, no.11-12, pp.3092-3103. DOI: 10.1007/s00170-020-06504-2. (IF:2.633) (Q1)
78. Vairis, A., Brown, S., Bess, M., Bae, K.H., Boyack, J., "Assessing Stability of Crutch Users by Non-Contact Methods", *International Journal of Environmental Research and Public Health*, 2021, vol.18, no.6, 3001, pp.1-12. DOI: 10.3390/ijerph18063001. (IF:2.649) (Q2)
79. Su, Y., Li, W.Y., Liu, X., Gao, F., Yu, Y., Vairis, A., "Evolution of microstructure, texture and mechanical properties of special friction stir welded T-joints for an  $\alpha$  titanium alloy", *Materials Characterization*, 2021, vol.177, pp.111152. DOI: 10.1016/j.matchar.2021.111152 (IF:3.562) (Q1)
80. Su, Y., Li, W.Y., Gao, F., Vairis, A., "Effect of FSW process on anisotropic of titanium alloy T-joint", *Materials and Manufacturing Processes*, vol.37, no.1, pp.25-33, 2021, DOI: 10.1080/10426914.2021.1942911 (IF: 3.350) (Q1)
81. Vairis A., Boyak J., Brown S., Bess M., Bae K.H., Petousis M. (2021) "Gait Analysis Using Video for Disabled People in Marginalized Communities". In: Singh M., Kang DK., Lee JH., Tiwary U.S., Singh D., Chung WY. (eds) Intelligent Human Computer Interaction. IHCI 2020. Lecture Notes in Computer Science, vol 12616, pp.145-153. Springer, Cham. DOI: 10.1007/978-3-030-68452-5\_14. (IF:1.071) (Q3)
82. Su, Y., Li, W.Y., Shen, J., Fu, B., dos Santos, J.F., Klusemann, B., Vairis, A., "Comparing the local-global deformation mechanism in different friction stir welding sequences of Ti-4Al-0.005B titanium alloy T-joints", *Materials Science and Engineering A*, vol.823, art.no. 141698, 2021, DOI: 10.1016/j.msea.2021.141698 (IF: 5.234) (Q1)
83. Chu, Q., Hao, S.J., Li, W.Y., Yang, X.W., Zou, Y.F., Wu, D., Vairis, A., "On the association between microhardness, corrosion resistance and microstructure of probeless friction stir spot welded Al-Li joint", *Journal of Materials Research and Technology*, 2021, vol.14, pp.2394-2405. DOI: 10.1016/j.jmrt.2021.07.120 (IF: 5.039) (Q1)

84. Wu, D., Li, W.Y., Liu, X., Gao, Y.J., Wen, Q., Vairis, A., " Effect of material configuration and welding parameter on weld formability and mechanical properties of bobbin tool friction stir welded Al-Cu and Al-Mg aluminum alloys", *Materials Characterization*, 2021, vol.182, art.no 111518. DOI: 10.1016/j.matchar.2021.111518 (IF:3.562) (Q1)
85. Chu, Q., Li, W.Y., Wu, D., Liu, X.C., Hao, S.J., Zou, Y.F., Yang, X.W., Vairis, A., "In-depth understanding of material flow behavior and refinement mechanism during bobbin tool friction stir welding", *International Journal of Machine Tools and Manufacture*, 2021, vol.171, art.no. 103816. DOI: 10.1016/j.ijmachtools.2021.103816 (IF: 7.880) (Q1)
86. Li, N., Li, W.Y., Xu, Y., Niu, P., Vairis, A., "Corrosion susceptibility and mechanical properties of friction stir welded AA2024-T3 joints", *Welding in the World*, 2022, vol.66, pp.951-960. DOI: 10.1007/s40194-022-01282-9 (IF: 2.103) (Q1)
87. Brown, S., Hussain, F., Vairis, A., Hacker, E., Bess, M., "Remote Monitoring of Disability: A Case Study of Mobility Aid in Rohingya Camp". In: Singh M., Kang DK., Lee JH., Tiwary U.S., Singh D., Chung WY. (eds) Intelligent Human Computer Interaction. IHCI 2021. Lecture Notes in Computer Science, vol 13184, pp.117-123. Springer, Cham. (IF:1.071) (Q3)
88. Guo, Z., Ma, T., Yang, X., Chen, X., Tao, J., Li, W.Y., Vairis, A., "Linear friction welding of Ti60 near- $\alpha$  titanium alloy: Investigating phase transformations and dynamic recrystallization mechanisms", *Materials Characterization*, 2022, vol.194, 112424. DOI: 10.1016/j.matchar.2022.112424 (IF: 4.342) (Q1)
89. Vairis, A., "Linear friction welded titanium alloy joints: a brief review of microstructure evolution and mechanical properties", *Welding International*, 2022. accepted
90. Su, Y., Li, W.Y., Shen, J., Bergmann, L., dos Santos, J.F., Klusemann, B., Vairis, A., "Comparing the fatigue performance of Ti-4Al-0.005B titanium alloy T-joints, welded via different friction stir welding sequences", *Materials Science and Engineering A*, 2022, vol. 859, art.no. 144227. DOI: 10.1016/j.msea.2022.144227 (IF: 5.234) (Q1)
91. Vairis, A., Petousis, M., Mountakis, N., Tsarouchidou, C., Vidakis, N., "The Effect of Tool Geometry on the Strength of FSW Aluminum Thin Sheets", *Materials*, 2022, vol.15, 8187. DOI:10.3390/ma1522818 (IF: 3.748) (Q2)
92. Guo, A., Ma, T., Yang, X., Li, W.Y., Tao, J., Vairis, A., "Thermo-physical simulation of deformation behavior and microstructure evolution for linear friction welding of near- $\beta$  titanium alloy", *Transactions of Nonferrous Metals Society of China*, 2023, vol. 33, pp. 481-493. DOI: 10.1016/S1003-6326(22)66121-1 (IF:3.572) (Q1)
93. Guo, A., Ma, T., Yang, X., Tao, J., Li, J., Li, W.Y., Vairis, A., "In-situ investigation on dislocation slip concentrated fracture mechanism of linear friction welded dissimilar Ti17( $\alpha$ + $\beta$ )/Ti17( $\beta$ ) titanium alloy joint", *Materials Science and Engineering A*, 2023, vol. 872, 144991 DOI: 10.1016/j.msea.2023.144991 (IF: 5.234) (Q1)
94. Guo, A., Ma, T., Chen, X., Yang, X., Tao, J., Li, J., Li, W.Y., Vairis, A., "Interfacial bonding mechanism of linear friction welded dissimilar Ti2AlNb-Ti60 joint: Grain intergrowth induced by combined effects of dynamic recrystallization, phase transformation and elemental diffusion", *Journal of Materials Research and Technology*, 2023, vol.24, pp.5660-5668 DOI: 10.1016/j.jmrt.2023.04.184 (IF: 6.267) (Q1)

95. Guo, A., Ma, T., Chen, X., Wang, J., Chen, X., Yang, X., Tao, J., Li, J., Li, W.Y., Vairis, A., "Linear friction welding of equiaxed Ti17 titanium alloy: Effects of microstructure evolution on tensile and impact properties", *Journal of Materials Science*, 2023. DOI: <https://doi.org/10.1007/s10853-023-08666-2> (IF: 4.682) (Q1)
96. Guo, A., Ma, T., Yang, X., Li, J., Li, W.Y., Vairis, A., "Multi-scale analyses of phase transformation mechanisms and hardness in linear friction welded Ti17( $\alpha$ + $\beta$ )/Ti17( $\beta$ ) dissimilar titanium alloy joint", *Chinese Journal of Aeronautics*, 2023. DOI: <https://doi.org/10.1016/j.cja.2023.08.018> (IF: 5.7) (Q1)
97. Su, Y., Yang, X., Wu, D., Meng, T., Li, W.Y., Feng, W., Vairis, A., "Optimizing welding sequence of TIG cross-joint of Invar steel using residual stresses and deformations", *Journal of Manufacturing Processes*, vol. 105, pp. 232-245. DOI: [10.1016/j.jmapro.2023.09.047](https://doi.org/10.1016/j.jmapro.2023.09.047) (IF: 6.2) (Q1)
98. Su Y, Yang X, Wu D, Meng T, Li W, Feng W, Zhao W, Vairis A, "Controlling deformation and residual stresses in a TIG joint for Invar steel molds", *Journal of Materials Research and Technology*, 2023. DOI: [10.1016/j.jmrt.2023.10.036](https://doi.org/10.1016/j.jmrt.2023.10.036). (IF: 6.267) (Q1)

### **ΕΠΙΣΤΗΜΟΝΙΚΕΣ ΔΗΜΟΣΙΕΥΣΕΙΣ**

#### **ΣΕ ΔΙΕΘΝΗ ΕΠΙΣΤΗΜΟΝΙΚΑ ΣΥΝΕΔΡΙΑ**

1. Vairis, A., Christakis, N., "Recent advances on friction modelling within a computational mechanics framework", 1st International Conference on Experiments / Process / System modelling / Simulation / Optimization, Athens, 6-9 July 2005, ISBN 960-530-084-2.
2. Christakis, N., Vairis, A., "The application of computer-aided methodologies in industrial process optimisation", 4th International Conference in Industry, Business and Education, Corfu, 25-26 August 2005, pp.322-328, ISBN 960-85316-9-1.
3. Vairis, A., Kavoussanos, M., Kteniadakis, M., "Reshaping a mechanical engineering course to address modern society's needs", WSEAS International Conference on Engineering Education, Athens, 8-10 July 2005, pp.89-93, ISBN 960-8457-28-9.
4. Karachalios, E., Vairis, A., "The study of design constants in sheet metal forming", 2nd International Conference "From Scientific Computing to Computational Engineering", Athens, 5-8 July 2006, ISBN 960-530-080-X.
5. Vairis, A., "Material flow modelling in a manufacturing process", 8th HSTAM International Congress on Mechanics, Patras, 12 – 14 July, 2007, pp.773-778.
6. Christakis, N., Vairis, A., Kountouriotis, Z., "A study of the frictional behaviour of a titanium alloy with the use of an analytic contact model", 8th HSTAM International Congress on Mechanics, Patras, 12 – 14 July, 2007, pp.623-628.
7. Karachalios, E., Vairis, A., "Bend Allowance Constants For Use In Sheet Metal Forming", 2nd International Conference on Experiments / Process / System / Modelling / Simulation & Optimization, Athens, 4-7 July 2007, ISBN 960-530-090-7.

8. Nitodas, S.F., Favvas, E., Romanos, G.E., Vairis, A., Kanellopoulos, N.K., Mitropoulos, A.Ch., "Production and charecterisation of alumina-silica membrane for gas separation", 3<sup>rd</sup> Panhellenic Porous Media Symposium, Athens, 1-2 November 2007.
9. Petousis, M., Vairis, A., Yfanti, S., Vidakis, N., Sakkas, N., "Cluster development in the EU construction industry: experience in different regions", 3rd International Conference "From Scientific Computing to Computational Engineering", Athens, 9-12 2008.
10. Vairis, A., Petousis, M., Vidakis, N., Sakkas, N., Koudoumas, M., "East Mediterranean Technology Transfer Unit: bringing together business and academia", 6th International Conference "New Horizons in Industry, Business and Education", Santorini, 27-28 August 2009, pp.307-313.
11. Petousis, M., Vairis, A., Vidakis, N., Pappas, G., Koudoumas, M., "Exploiting three dimensional printing in medical applications – Two EMTTU lab case studies", 6th International Conference "New Horizons in Industry, Business and Education", Santorini, 27-28 August 2009, pp.314-320.
12. Yfanti, S., Temple, B., Edgar, D., Sakkas, N., Vairis, A., "Construction clusters and Innovation in the region of Crete", 6th International Conference "New Horizons in Industry, Business and Education", Santorini, 27-28 August 2009.
13. Timmons, W., Vairis, A., Kalyvianakis, A., Pateromichelakis, N., "Equipment assisted study of point technique", 19th Annual Meeting International Association for Dance Medicine and Science, The Hague, 29-31 October 2009.
14. Karnavas, Y., Vairis, A., "Modelling of frictional phenomena with the aid of neural networks", International Conference BALTRIB'2009, Lithuania, 19-21 November 2009.
15. Vairis, A., Petousis, M., Vidakis, N., Stefanoudakis, G., "Modelling a knee ligament repair device", IEEE 9th International Symposium on Distributed Computing and Applications To Business, Engineering & Science DCABES 2010, Hong Kong, 10-12 August 2010.
16. Yfanti, S., Temple, B., Sakkas, N., Vairis, A., Petousis, M., "Create an opening for clustering by analyzing new product design processes in small/medium sized Greek enterprises", 9th Special Conference of the Hellenic Operational Research Society (HELORS), Agios Nikolaos, 27-29 May 2010.
17. Yfanti, S., Temple, B., Edgar, D., Sakkas, N., Vairis, A., "Clustering approach in Crete", 2nd International Conference "The Economies of Balkan and Eastern Europe Countries in the changed world" EBEEC, Kavala, 7-9 May 2010.
18. Vairis, A., Petousis, M., Vidakis, N., Stefanoudakis, G., Kandyla, B., "A study on a reconstructed anterior cruciate ligament", 2011 International Conference on Mechanical and Aerospace Engineering (CMAE 2011), New Delhi, India, March 21-23 2011.
19. Karnavas, Y., Vairis, A., "Modelling of frictional phenomena using neural networks: friction coefficient estimation", The 19th IASTED International Conference on Applied Simulation and Modelling ASM 2011, Crete, June 22 – 24 2011.
20. Petousis, M., Vairis, A., Yfanti, S., Kandyla, B., Chrysulakis, C., "Study of a 3D knee model", 7th International Conference "New Horizons in Industry, Business and Education", Chios, 25-26 August 2011.

21. Vairis, A., Christakis, N., "On the effects of global climate change on cropland productivity", 7th International Conference "New Horizons in Industry, Business and Education", Chios, 25-26 August 2011, pp.233-238.
22. Yfanti, S., Temple, B., Edgar, D., Petousis, M., Vairis, A., "The concept of innovation and the construction sector", 7th International Conference "New Horizons in Industry, Business and Education", Chios, 25-26 August 2011, pp.179-186
23. Vairis, A., "Mathematical modelling of the linear friction welding process", Simulation of Manufacturing Technologies 2012 Workshop, Ufa, 10-13 April 2012.
24. Vairis, A., Gazizov, R.K., Ivanov, V.Yu., Nasibullayev, I.Sh., Khalirakhmanov, D.I., Yamileva, A.M., "Simulation of linear friction welding with ANSYS Mechanical APDL", Simulation of Manufacturing Technologies 2012 Workshop, Ufa, 10-13 April 2012.
25. Favvas, E.P., Stefanopoulos, K.L., Vairis, A., Nolan, J.W, Joensen, K.D., Mitropoulos, A.Ch., "in situ SAXS investigation of dibromomethane adsorption in ordered mesoporous silica", Eighth International Symposium Effects of Surface Heterogeneity in Adsorption and Catalysis on Solids ISSHAC-8, Krakow, 27-31 August 2012.
26. Vairis, A., Petousis, M., Kandyla, B., Chrisoulakis, C., "Intact and ACL-Deficient Knee MODEL Evaluation", International Conference on Biomechanics and Biomedical Engineering, Copenhagen, Denmark, June 11-12, 2012.
27. Vairis, A., Loulakakis, K., Petousis, M., "The role of internships in a higher education institute", World Congress on Engineering Education 2013, Doha, 7-9 January 2013.
28. Vairis, A., Loulakakis, K., Petousis, M., "Enhancing undergraduate courses with internships", 4th EAEEIE Annual Conference, Chania, 30-31 May 2013. (3 citations)
29. Vairis, A., Petousis, M., Vidakis, N., Kandyla, B., Chrisoulakis, C., Tsainis, A.M., "Evaluating the efficacy of a numerical model of a human anatomy joint", 4th EAEEIE Annual Conference, Chania, 30-31 May 2013.
30. Vairis, A., Alexopoulos, N., Favvas, E.P., Nitodas, S., "Strain sensing of glass fiber reinforced coupons by using carbon nanotube doped resin", American Society of Mechanical Engineers-International Mechanical Engineering Congress & Exposition, San Diego, 15-21 November 2013.
31. Bikmeyer, A., Gazizov, R., Vairis, A., Yamileva, A., "Modeling the temperature distribution in the contact area of a moving object in the case of linear friction welding", American Society of Mechanical Engineers-International Mechanical Engineering Congress & Exposition, San Diego, 15-21 November 2013.
32. Vairis, A., Petousis, M., Stefanoudakis, G., Vidakis, N., Kandyla, B, Tsainis, A., "Studying the intact, ACL-deficient and reconstructed human knee joint using a finite element model", American Society of Mechanical Engineers-International Mechanical Engineering Congress & Exposition, San Diego, 15-21 November 2013



33. Bikhmeyev, A.T., Yamileva, A.M., Vairis, A., Gazizov, R.K., “Mathematical and numerical models of the preliminary phases of the linear friction welding process”, International Joint Symposium on Joining and Welding, Osaka, 6-8 November 2013
34. Vairis, A., Petousis, M., Vidakis, N., Kandyla, B., Tsainis, A.M., “Finite element model for the study of a PCL deficient human knee joint mechanical behavior”, 8th International Conference “New Horizons in Industry, Business and Education”, Chania, 29-30 August 2013.
35. Alexopoulos, N., Lazaridou, I., Vairis, A., Petousis, M., “The effect of different carbon nanotube concentration on glass fiber reinforced plastic coupons under progressive damage accumulation tests”, 16th European Conference on Composite Materials ECCM 2014, Seville, 22-26 June 2014.
36. Savvakis K., Petousis M., Vairis, A., Vidakis N., Bikhmeyev, A., “Experimental determination of the tensile strength of fused deposition modelling parts”, American Society of Mechanical Engineers-International Mechanical Engineering Congress & Exposition, Montreal, 14-20 November 2014.
37. Buffa, G., Cammalleri, M., Campanella, D., Fratini, L., Vairis, A., “Effective Linear Friction Welding Machine Redesign through Process Analysis”, 15th International Conference “Metal Forming 2014”, Palermo, 21-24 September 2014 also published in Key Engineering Materials 2014, vol. 622-623, pp.484-491.
38. Li, W.Y., Guo, J., Yang, X., Ma, T., Vairis, A., “Significant effect of micro-swing on joint formation during workpiece oscillation in linear friction welding”, Simulation of Manufacturing Technologies 2014 Workshop, Ufa, 23-25 June 2014. also published in Journal of Engineering Science and Technology Review, 2014, vol.7, no.5, pp.55-58
39. Lazaridou, I., Alexopoulos, N.D., Vairis, A., Petousis, M., “Mechanical behavior of MWCNT reinforced GFRP composites under fatigue constant amplitude loadings with the presence of artificial notches”, 30th Pan-hellenic conference on Solid-State Physics and Materials Science, Heraklion, 21-24 September 2014.
40. Vairis, A., Loulakakis, K., Petousis, M., “The role of internships in a higher education institute”, World Congress on Engineering Education 2014, Doha, 9-11 November 2014.
41. Vairis, A., Petousis, M., “Intellectual property teaching as part of an engineering degree”, World Congress on Engineering Education 2014, Doha, 9-11 November 2014.
42. Bikhmeyev, A.T., Yamileva, A.M., Gazizov, R.K., Vairis, A., Khalirahmanov, D.I., “On the Visualization of the Dynamics of Material Flow and Adhesion During Linear Friction Welding”, The International Symposium on Visualization in Joining & Welding Science through Advanced Measurements and Simulation, Osaka, 26-28 November 2014.
43. Atroshenko, A., Vairis, A., Bichkov, V., Nikiforov, P., “ANSYS simulation of residual strains in butt-welded joints”, Simulation of Manufacturing Technologies 2014 Workshop, Ufa, 23-25 June 2014 also published in Journal of Engineering Science and Technology Review, 2014, vol.7, no.5, pp.9-11

44. Lazaridou, I., Alexopoulos, N.D., Vairis, A., Petousis, M., “Mechanical behavior of MWCNT reinforced GFRP composites under fatigue constant amplitude loadings with the presence of artificial notches”, Second International Conference on Advances in Mechanical and Robotics Engineering - AMRE 2014, Zurich, 25-26 October 2014.
45. Khalikova, G.R., Bikmeyer, A.T., Gazizov, R.K., Vairis, A., “A 2D Computer Model of Cutting of the A2024 Aluminum Alloy”, Simulation of Manufacturing Technologies 2014 Workshop, Ufa, 23-25 June 2014. also published in Journal of Engineering Science and Technology Review, 2014, vol.7, no.5, pp.24-28
46. Karantzis, P., Favvas, E.P., Alexopoulos, A., Vairis, A., Mitropoulos, A.Ch., “A study of MWCNTs behaviour as filler material in P84 polyimide films”, Fourth International Symposium Frontiers in Polymer Science, Riva del Garda, 20-22 May 2015.
47. Lazaridou, I., Alexopoulos, A., Favvas, E.P., Petousis, M., Vairis, A., “Fatigue mechanical behavior of MWCNT reinforced GFRP composites with surface artificial defects”, 20th International Conference on Composite Materials, Copenhagen, 19-24 July 2015.
48. Alexopoulos, N., Vairis, A., Petousis, M., “A study of fatigue mechanical properties of CNT composites”, 9th International Conference “New Horizons in Industry, Business and Education”, Skiathos, 27-29 August 2015, pp.99-103.
49. Vidakis, N., Petousis, M., Vairis, A., Tsainis, M.A., Stivaktakis, M., Vasilopoulou, I., “Computational biomechanical modelling of the human lumbar spine: a literature review and an example”, 9th International Conference “New Horizons in Industry, Business and Education”, Skiathos, 27-29 August 2015, pp.87-92.
50. Vidakis, N., Petousis, M., Savvakis, K., Vairis, A., Maniadi, A., Arapis, M., “Experimental Determination of Fused Deposition Modelling Parts Compressive Strength”, 9th International Conference “New Horizons in Industry, Business and Education”, Skiathos, 27-29 August 2015, pp.93-98.
51. Vidakis, N., Petousis, M., Vairis, A., Savvakis, K., “Effect of Strain Rate on the Tensile Strength of Fused Deposition Modelling Parts”, International Conference ‘Science in Technology’ SCinTE 2015, Athens, 5-7 November 2015
52. Yamileva, A., Gazizov, R.K., Vairis, A., “Computer modelling of the effect of clamping in linear friction welding”, Simulation of Manufacturing Technologies 2015 Workshop, Ufa, 22-23 September 2015. also published in Journal of Engineering Science and Technology Review, 2015, vol.8, no.6, pp.65-68
53. Nikiforov, R., Medvedev, A., Tarasenko, E., Vairis, A., “Numerical simulation of residual stresses in linear friction welded joints”, Simulation of Manufacturing Technologies 2015 Workshop, Ufa, 22-23 September 2015. also published in Journal of Engineering Science and Technology Review, 2015, vol.8, no.6, pp.49-53
54. Bikmeyer, A.T., Gazizov, R.K., Vairis, A., Yamileva, A.M., “Particularities of simulation of friction welding processes, as an additive technology for manufacturing parts of modern aero-space systems”, National Supercomputer Forum (NSKF 2015), Russia, 24-27 November 2015.

55. Bikhmeyev, A.T., Gazizov, R.K., Yamileva, A., Vairis, A., Zheleznov, F.O., "On the visualization of joint formation during linear friction welding", Simulation of Manufacturing Technologies 2015 Workshop, Ufa, 22-23 September 2015. also published in Journal of Engineering Science and Technology Review, 2015, vol.8, no.6, pp.68-72.
56. Moutzouroglou, N., Kosheleva, R.I., Michailidi, E.D., Favvas, E.P., Vairis, A., Mitropoulos, A.Ch., "Interpreting research efforts on nanomaterials", 7<sup>th</sup> Panhellenic Symposium on Porous Materials, Ioannina, 2-4 June 2016
57. Stivaktakis, M., Petousis, M., Vairis, A., Vidakis, N., "Developing a Phaistos disk geometric model with 3d scanning", 11<sup>th</sup> Annual MIBES International Conference, 22-24 June 2016.
58. Vairis, A., Tsainis, A.M., Papazafeiropoulos, G., "Comparison of friction welding processes", 4<sup>th</sup> Linear Friction Welding Symposium, Cambridge, 16-17 March 2017.
59. Ye, Q., Li, W.Y., Ma, T., Yang, X., Vairis, A., "3D finite element analysis of the linear friction welding of a beta Titanium alloy", 12<sup>th</sup> International Seminar "Numerical analysis of weldability", Graz, 23-26 September 2018.
60. Vairis, A., Kim, S.H., Brown, S., Masoumifar, A., "A proposed design of a versatile mobility aid for challenging environments", TENCON 2018, S. Korea, 28-31 October 2018, Art.8650509, pp.712-716.
61. Vairis, A., Tsainis, A.M., "On dynamically modifying the LFW process", 5<sup>th</sup> Linear Friction Welding Symposium, Cambridge, 20-21 March 2019
62. Li, N., Li, W.Y., Yang, X., Feng, Y., Vairis, A., "An investigation into the mechanism for enhanced mechanical properties in friction stir welded AA2024-T3 joints coated with cold spraying", International Thermal Spray Conference, ITSC 2018; Orlando; United States; 7 - 10 May 2018.
63. Brown, S., Vairis, A., Masoumifar, A., Petousis, M., "Enhancing Performance of Crutches in Challenging Environments: Proposing an Alternative Design and Assessing the Expected Impact", TENCON 2019, India, 17-21 October 2019, Art.8929341, pp.1717-1724.
64. Vairis, A., Boyack, J., Brown, S., Bess, M., Bae, K.H., Petousis, M., "Gait analysis using video for disabled people in marginalized communities", 12<sup>th</sup> International Conference on Intelligent Human Computer Interaction (IHCI-2020), 24-26 November 2020, Daegu, South Korea
65. Brown, S., Hussain, F., Vairis, A., Parker, E., Bess, M., " Remote Monitoring of Disability: A Case Study of Mobility Aid in Rohingya Camp", 13<sup>th</sup> International Conference on Intelligent Human Computer Interaction (IHCI-2021), 20-22 December 2021, Kent, USA.
66. Brown, S., Hussain, F., Hacker, E., Vairis, A., Bess, M., "Evaluating mobility and access of disabled refugees in Rohingya camps in Cox's Bazar", 16<sup>th</sup> International Conference on Social Implications of Computers in Developing Countries (IFIP WG 9.4), 25-27 May 2022, Lima, Peru.
67. Bikhmeyev, A., Vairis, A., Li, W.Y., "Study of the interfacial temperature development for various friction welding processes", IIW 2022 International Conference on Welding and Joining, 17-22 July 2022, Tokyo, Japan.
68. Andrikopoulos, K.I., Voerakos, G., Tsainis, A.M., Papazafeiropoulos, G., Stergiou, C., Vairis, A., "Identification method of constitutive material parameters for

- additively manufactured structures using an inverse optimization strategy.”, ASME 2023 International Mechanical Engineering Congress and Exposition (IMECE 2023), 29 October-2 November 2023, New Orleans, USA.
69. Chen, W., Xu, Y., Vairis, A., Birkmeyer, A., Li, W.Y., “Numerical simulation of rotary friction welding of a titanium alloy”, ASME 2023 International Mechanical Engineering Congress and Exposition (IMECE 2023), 29 October-2 November 2023, New Orleans, USA.
70. Vairis, A., “Overview of Research on Linear Friction Welding”, 1<sup>st</sup> Workshop on Advanced Materials Frontiers, 26 – 29 November 2023, Grenoble.

### ΑΝΑΓΝΩΡΙΣΗ ΕΠΙΣΤΗΜΟΝΙΚΟΥ ΕΡΓΟΥ

- H-index (Hirsch Number): **26**
- i10-index: **62**
- Σύνολο αναφορών: **3368**
- Ανάλυση: <https://scholar.google.gr/citations?user=w5Yq4eAAAAAJ&hl=en>
- ORCID: 0000-0001-6359-799X
- ResearcherID: AAI-5040-2020.
- CIÊNCIA ID :4E15-4F0E-882A
- Ανήκει στο ανώτερο 2% των επιστημόνων διεθνώς σύμφωνα με την αναγνώριση του επιστημονικού τους έργου, για το 2020 και 2021 καθώς για το σύνολο της σταδιοδρομίας (<https://doi.org/10.1371/journal.pbio.3000384>).

### ΕΠΙΣΤΗΜΟΝΙΚΑ ΒΙΒΛΙΑ

- Li, W., Yang, X., Vairis, A., “Solid State Welding”, Science Press, 2017, China (in English)

### ΚΕΦΑΛΑΙΑ ΣΕ ΕΠΙΣΤΗΜΟΝΙΚΑ ΒΙΒΛΙΑ

- Wang, X., Li, W.Y., Ma, T., Vairis, A., (2019) ‘Linear friction welding’, in Vora, J., Badheka, V., (eds.)” Advances in welding technologies for process development”. New York, CRC Press, pp.191-209.

### ΔΙΠΛΩΜΑΤΑ ΕΥΡΕΣΙΤΕΧΝΙΑΣ

- Μητρόπουλος, Α., Βαΐρης, Α., Στεφανόπουλος, Κ., “Εξάρτημα υδραργυρικού ποροσιμέτρου”, Αρ. Διπλώματος Ευρεσιτεχνίας 1003538, 1 Μαρτίου 2001
- Βαΐρης, Α., Καλυβιανάκης, Α., Timmons, W., Πατερομιχελάκης, Ν., “Συσκευή Ελέγχου Άσκησης Χορού”, Αρ. Διπλώματος Ευρεσιτεχνίας 20090100586, 26 Οκτωβρίου 2009
- Βαΐρης, Α., “Έλεγχος κατεργασιών συγκόλλησης με τριβή”, Αρ.Αίτησης Διπλώματος Ευρεσιτεχνίας 201600931, 11 Απριλίου 2016

- Βιδάκης, Ν., Βαΐρης, Α., Λόντος, Α., Γραμματικάκης, Ι., Πετούσης, Μ., Μανιαδή, Α., Αράπης, Ε., “Εξυπνο εργαλείο γλυπτικής», Αρ. Διπλώματος Ευρεσιτεχνίας 1009101, 11 Απριλίου 2016

## **ΕΚΠΑΙΔΕΥΤΙΚΗ ΕΜΠΕΙΡΙΑ (ΤΡΙΤΟΒΑΘΜΙΑ ΕΚΠΑΙΔΕΥΣΗ)**

### Προπτυχιακά

- Μηχανική II
- Κατεργασίες Μορφοποίησης

### **Τμήμα Μηχανολόγων Μηχανικών Πανεπιστήμιο Δυτικής Αττικής**

### Προπτυχιακά

- Στοιχεία Μηχανών I
- Στοιχεία Μηχανών I (στα αγγλικά για ξένους φοιτητές Erasmus)
- Στοιχεία Μηχανών II
- Στοιχεία Μηχανών I (στα αγγλικά για ξένους φοιτητές Erasmus)
- Ξενόγλωσση Τεχνική Ορολογία
- Μηχανολογικός Σχεδιασμός II
- Εμβιομηχανική

### **Τμήμα Μηχανολόγων Μηχανικών Ελληνικό Μεσογειακό Πανεπιστήμιο**

### Προπτυχιακά

- MEC 499 Research in Mechanical Engineering
- MEC 410 Design of Machine Elements
- MEC 440 Mechanical Engineering Design I
- MEC 214 Probability and Statistics for Mechanical Engineers
- MEC 310 Introduction to Machine Design
- MEC 101 Freshman Design Innovation

### Μεταπτυχιακά

- MEC 525 Product Design, Concept Development and Optimization
- MEC 502 Conduction and Radiation Heat Transfer

### **Τμήμα Μηχανολόγων Μηχανικών State University of New York Korea**

### Μεταπτυχιακά

- Rock mechanics  
Πρόγραμμα Μεταπτυχιακών Σπουδών «*Oil & Gas Technology*»

### **Τμήμα Τεχνολογίας Πετρελαίου και Φυσικού Αερίου ΤΕΙ Καβάλας**

### Μεταπτυχιακά

- Καινοτομία & Διαχείριση Καινοτομίας – Πνευματική Ιδιοκτησία  
Διατμηματικό Πρόγραμμα Μεταπτυχιακών Σπουδών «*Προηγμένα συστήματα παραγωγής, αυτοματισμού και ρομποτικής*»

### **Τμήμα Μηχανολόγων Μηχανικών**

## **ΤΕΙ Κρήτης**

### Προπτυχιακά

- Στοιχεία Μηχανών I
- Στοιχεία Μηχανών I (στα αγγλικά για ξένους φοιτητές Erasmus)
- Πνευματική Ιδιοκτησία για Μηχανικούς (στα αγγλικά για ξένους φοιτητές Erasmus)
- Στοιχεία Μηχανών II
- Τεχνική Νομοθεσία
- Βιομηχανικά Συστήματα Ελέγχου
- Συστήματα Βιομηχανικής Συντήρησης
- Μηχανολογικό Σχέδιο I

## **Τμήμα Μηχανολόγων Μηχανικών**

### **ΤΕΙ Κρήτης**

### Μεταπτυχιακά

- Υλικά για ναυπηγικές και θαλάσσιες κατασκευές
- Διατμηματικό Πρόγραμμα Μεταπτυχιακών Σπουδών “Ναυτική και Θαλάσσια τεχνολογία και επιστήμη”

## **Τμήμα Ναυπηγών Μηχανολόγων Μηχανικών**

### **Εθνικό Μετσόβιο Πολυτεχνείο**

### Προπτυχιακά

- Σχέδιο II

## **Τμήμα Ενεργειακής Τεχνικής**

### **ΤΕΙ Αθήνας**

### Προπτυχιακά

- Μηχανουργική Τεχνολογία
- Μηχανικές Ταλαντώσεις
- Τεχνικό Σχέδιο
- Μηχανολογικό Σχέδιο

## **Σχολή Μηχανικών Αεροπορίας**

### **Σχολή Ικάρων**

### Προπτυχιακά

- Συστήματα Αυτομάτου Ελέγχου

## **Ανωτάτη Σχολή Τεχνικής Εκπαίδευσης Αξιωματικών (ΤΧ)**

### **Αθήνα**

**ΕΠΙΒΛΕΨΗ ΠΤΥΧΙΑΚΩΝ ΕΡΓΑΣΙΩΝ ΦΟΙΤΗΤΩΝ**

**ΤΡΙΤΟΒΑΘΜΙΑΣ ΕΚΠΑΙΔΕΥΣΗΣ**

Επίβλεψη σε άνω των 60 πτυχιακών εργασιών στο Ελληνικό Μεσογειακό Πανεπιστήμιο, ΤΕΙ Κρήτης, Northwestern Polytechnical University (Κίνα) και State University of New York Korea (N. Κορέα)



## ΕΠΙΣΤΗΜΟΝΙΚΟ ΕΡΓΟ



### ΔΙΕΘΝΗ ΕΠΙΣΤΗΜΟΝΙΚΑ ΠΕΡΙΟΔΙΚΑ

2/2020 –

Αρχισυντάκτης (Editor-in-Chief) του διεθνούς επιστημονικού περιοδικού **Welding International** που εκδίδεται από τον οίκο Taylor & Francis. (ISSN: 0950-7116)

Μέλος της συντακτικής ομάδας (editorial board) του διεθνούς επιστημονικού περιοδικού Materials Technologies Design. (ISSN: 2466-4677)

Μέλος της συντακτικής ομάδας (editorial board) του διεθνούς επιστημονικού περιοδικού Journal of Engineering Science and Technology Review. (ISSN:1791-2377)

Μέλος της συντακτικής ομάδας (editorial board) του διεθνούς επιστημονικού περιοδικού Applied Engineering Letters. (ISSN: 2466-4677)

Guest editor του διεθνούς επιστημονικού περιοδικού Journal of Engineering Science and Technology Review για το ειδικό τεύχος με τα πρακτικά του συνεδρίου “Simulation of manufacturing technologies - 2014” που έγινε στην Ufa στις 23-25 Ιουνίου 2014.

Guest editor του διεθνούς επιστημονικού περιοδικού Advances in Materials Science and Engineering για το ειδικό τεύχος “Advances in Friction Welding” (Οκτώβριος 2013-Μάρτιος 2014).

Guest editor του διεθνούς επιστημονικού περιοδικού Journal of Engineering Science and Technology Review για το ειδικό τεύχος με τα πρακτικά του συνεδρίου “Simulation of manufacturing technologies - 2012” που έγινε στην Ufa στις 10-13 Απριλίου 2012.

Κριτής (reviewer) για το επιστημονικά περιοδικά

- *Acta Materialia* (IF: 5.058)
- *Advanced Engineering Materials* (IF:2.319)
- *Advances in Manufacturing*
- *Advances in Materials Science and Engineering* (IF: 0.897)
- *CIRP Journal of Manufacturing Science and Technology* (IF: 1.732)
- *Computational Materials Science* (IF: 1.574)
- *Construction and Building Materials* (IF:3.169)
- *DYNA*
- *International Journal of Advanced Manufacturing Technology* (IF: 1.779)
- *International Journal of Computer Assisted Radiology and Surgery* (IF:2.155)
- *International Journal of Material Forming* (1.750)
- *International Journal of Modelling, Identification and Control*
- *International Journal of Thermal Sciences* (IF:2.769)
- *Journal of Adhesion Science and Technology* (IF:1.153)
- *Journal of Alloys and Compounds* (IF:3.014)

- *Journal of Engineering Science and Technology Review*
- *Journal of Materials Engineering and Performance (IF: 1.094)*
- *Journal of Materials Science & Technology (IF: 2.267)*
- *Journal of Materials Processing Technology (IF:3.147)*
- *Materials and Design (IF: 3.501)*
- *Materials Characterization (IF: 2.383)*
- *Materials Letters (IF: 2.437)*
- *Mechanism and Machine Theory (IF: 1.689)*
- *Metallurgical and Materials Transactions A (IF: 1.749)*
- *Metals (IF: 1.574)*
- *North American Manufacturing Research Institution of SME (NAMRI/SME)*
- *Qscience Connect*
- *Steel Research International (IF: 1.021)*
- *Surface and Coatings Technology (IF: 2.139)*
- *The Journal of Manufacturing Processes (IF:1.771)*
- *The Knee (IF: 1.446)*
- *Welding in the World (IF: 1.278)*



## **ΔΙΕΘΝΗ ΕΠΙΣΤΗΜΟΝΙΚΑ ΣΥΝΕΔΡΙΑ**

### ◆ 26 Μαΐου 2022

Μέλος Διεθνούς Επιστημονικής Επιτροπής Επιστημονικού Συνεδρίου “10th International Scientific Conference IRMES 2022 - “Machine design in the context of Industry 4.0 – Intelligent products””, Βελιγράδι, Σερβία.

### ◆ 10-12 Απριλίου 2017

Μέλος Διεθνούς Επιστημονικής Επιτροπής Επιστημονικού Συνεδρίου “17<sup>th</sup> International Conference on Sheet Metal – SheMet 2017”, Palermo, 10-12 Απριλίου 2017.

### ◆ 22-23 Σεπτεμβρίου 2015

Μέλος Οργανωτικής Επιτροπής Επιστημονικού Συνεδρίου “Simulation of manufacturing technologies - 2015”, Ufa, Ρωσική Ομοσπονδία

### ◆ 27-29 Αυγούστου 2015

Μέλος Διεθνούς Επιστημονικής Επιτροπής Επιστημονικού Συνεδρίου “9<sup>th</sup> International Conference “New Horizons in Industry, Business and Education” (NHIBE 2015)”, Σκιάθος, 27-29 Αυγούστου 2015.

### ◆ 23-25 Ιουνίου 2014

Μέλος Οργανωτικής Επιτροπής Επιστημονικού Συνεδρίου “Simulation of manufacturing technologies - 2014”, Ufa, Ρωσική Ομοσπονδία

### ◆ Απρίλιος 2013

Κριτής (reviewer) για το Επιστημονικό Συνέδριο *American Society of Mechanical Engineers-International Mechanical Engineering Congress & Exposition*, ΗΠΑ, 15-21 Νοεμβρίου 2013.

◆ 10-13 Απριλίου 2012

Μέλος Οργανωτικής Επιτροπής Επιστημονικού Συνεδρίου “*Simulation of manufacturing technologies - 2012*”, Ufa, Ρωσική Ομοσπονδία

◆ Ιούλιος 2007

Μέλος Επιστημονικής Επιτροπής Επιστημονικού Συνεδρίου “*2<sup>nd</sup> International Conference on Experiments / Process / System / Modelling / Simulation & Optimization*”, Αθήνα, 4-7 Ιουλίου 2007.

◆ 7 Ιουλίου 2006

Chairman of the Session "Static and dynamic Behaviour of Structures" Επιστημονικού Συνεδρίου “*2<sup>nd</sup> International Conference “From Scientific Computing to Computational Engineering*”, Αθήνα, 5-8 Ιουλίου 2006.

◆ Μάιος 2006

Μέλος Επιτροπής Διοργάνωσης Συνεδρίου 2006 IASME/WSEAS Conference Water Resources, Hydraulics and Hydrology, Χαλκίδα, 8-10 Μαΐου 2006.



### **ΠΡΟΣΚΛΗΣΕΙΣ ΓΙΑ ΔΙΑΛΕΞΕΙΣ**

- ◆ 31 Αυγούστου 2010, διάλεξη με θέματα “Linear friction welding” και “Friction modelling”,  
Northwestern Polytechnical University, XiAn, P.R.China
- ◆ 8 Ιουνίου 2011, διάλεξη με θέμα “Linear friction welding”,  
Ufa State Aviation Technical University, Russian Federation
- ◆ 29 Αυγούστου 2011, διάλεξη με θέμα “Protect your ideas: Intellectual property for engineers”,  
Northwestern Polytechnical University, XiAn, P.R.China
- ◆ 5 Ιουνίου 2012, διάλεξη με θέμα “Linear friction welding”,  
Northwestern Polytechnical University, XiAn, P.R.China
- ◆ 4 Ιουνίου 2013, διάλεξη με θέμα “Linear friction welding”,  
University of Palermo, Italy
- ◆ 5 Ιουλίου 2013, διάλεξη με θέμα “Linear friction welding :Present and future”,  
Beijing Advanced Manufacturing Technology Institute, AVIC Corp., Πεκίνο.
- ◆ Ιούνιος 2019, διάλεξη με θέμα “Linear friction welding”, AVIC Manufacturing Technology Institute – AVIC Corp., Πεκίνο.

### **ΕΠΑΓΓΕΛΜΑΤΙΚΕΣ ΟΡΓΑΝΩΣΕΙΣ**

- ◆ Τεχνικό Επιμελητήριο της Ελλάδας (ΑΜ 54178) μέλος 13/4/1989
- ◆ Πανελλήνιος Σύλλογος Μηχανολόγων Ηλεκτρολόγων Μηχανικών (ΑΜ 54178) μέλος από 20/3/1998