Curriculum Vitae

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Education

2007-2012 **Ph.D,** Tarbiat Modares University, Tehran, Iran
Major: Manufacturing Engineering
Dissertation: "Numerical and experimental Investigation of the effect of temperature and corner fillet on internal pressure in warm tube hydroforming process", Under supervision of Prof. H. Moslemi Naeini

2003-2005 **M.Sc**., Tarbiat Modares University, Tehran, Iran
Major: Manufacturing Engineering
Thesis: "Designing and Manufacturing of a Typical Die for Tube Hydroforming ", Under supervision of Prof. GH. Liaghat
B.Sc., Tabriz University, Tabriz, Iran

1999-2003 **Major:** Manufacturing Engineering
Thesis: " Solving of Complicated Problems in Industry Using Blackboard Architecture Systems ", Under supervision of Dr. M. Sadegh Amalnik

Research Interests

- Metal forming
- Hydroforming
- Laser forming
- Additive manufacturing
- Friction welding
- Roll forming
- Optimization and DOE

Journal Publications

1. M. Balali, **S.M.H. Seyedkashi**, A. Hasanabadi, H. Gorji, H. Baseri, M. Khosravi, Effects of horn type on the microhardness and microstructural homogeneity in ultrasonic-assisted simple shear extrusion, Accepted for publication in *Experimental Techniques*, 2024.
2. M. Balali, **S.M.H. Seyedkashi**, A. Hasanabadi, H. Gorji, H. Baseri, M. Khosravi, A new ultrasonic-assisted simple shear extrusion process in production of ultrafine

grained copper, Accepted for publication in *International Journal of Engineering, Transactions B: Applications*, 2024.

3. O. Mehrabi, **S.M.H. Seyedkashi**, M. Moradi, Experimental study of SS316L, Inconel 625, and SS316L-IN625 functionally graded material produced by direct laser metal deposition process, *Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science*, Vol. 238 (16), August 2024, pp. 8139-8150, DOI: 10.1177/09544062241237408.
4. M. Balali, **S.M.H. Seyedkashi**, A. Hasanabai, H. Gorji, H. Baseri, M. Khosravi, Optimization of effective parameters on ultrasonic horns in simple shear extrusion process using Taguchi design of experiments, *Iranian Journal of Manufacturing Engineering*, Vol. 11 (3), May 2024, pp. 1-12, DOI: 10.22034/IJME.2024.445721.1933 (In Persian).
5. H. Golmakani, Y. Dadar Asl, **S.M.H. Seyedkashi**, Numerical and experimental analysis of bow defect in flexible roll forming of double layered copper-aluminum sheets, *Journal of Solid and Fluid Mechanics*, Vol. 13 (6), January and February 2024, pp. 75-87, DOI: 10.22044/jsfm.2024.13483.3775 (In Persian).
6. M. Jafari, **S.M.H. Seyedkashi**, M. Elyasi, Y. Yaghoubinezhad, Production of Al5083-Al_2O_3 metal base composite using accumulative roll bonding, *Iranian Journal of Materials Forming*, Vol. 11 (1), January 2024, pp. 62-71, DOI. 10.22099/ijmf.2024.49997.1293.
7. O. Mehrabi, **S.M.H. Seyedkashi**, M. Moradi, Experimental and response surface study on additive manufacturing of functionally graded steel-Inconel wall using direct laser metal deposition, *Optics and Laser Technology*, Vol. 167, December 2023, 109707, DOI: 10.1016/j.optlastec.2023.109707.
8. S.J. Hashemi, F. Rahmani, **S.M.H. Seyedkashi**, Study of effect of temperature on forming diameter and thinning in warm incremental forming of aluminum tubes, *Karafan Journal*, Vol. 20 (3), Autumn 2023, pp. 129-148, DOI: 10.48301/kssa.2023.381133.2416 (In Persian).
9. O. Mehrabi, **S.M.H. Seyedkashi**, M. Moradi, Effect of the laser power on the geometrical features of SS316L additively manufactured by direct laser metal deposition, *Lasers in Engineering*, Vol. 56 (1-3), September 2023, pp. 127-141, DOI:.
10. O. Mehrabi, **S.M.H. Seyedkashi**, M. Moradi, Functionally graded additive manufacturing of thin-walled 316l stainless steel-Inconel 625 by direct laser metal deposition process: characterization and evaluation, *Metals*, Vol. 13 (6), June 2023, 1108, DOI: 10.3390/met13061108.
11. M. Salehi, **S.M.H. Seyedkashi**, M. Sajed, H. Rastegari, Parametric study of reinforcement of keyhole-less friction stir spot welding using Al_2O_3 and TiO_2 nanopowders, *Iranian Journal of Materials Forming*, Vol. 10 (2), April 2023, pp. 55-67, DOI: 10.22099/ijmf.2023.47414.1257.
12. M. Sajed, **S.M.H. Seyedkashi**, A review of rotary friction-based solid-state joining processes, *Mechanical Engineering Journal*, Vol. 31 (6), February 2023, pp. 50-63, DOI: 10.30506/mmep.2023.557786.2033 (In Persian).
13. F. Boroumand, **S.M.H. Seyedkashi**, M.H. Pol, Experimental study of mechanical properties and failure mechanisms of metal-composite laminates reinforced with multi-walled carbon nanotubes, *Thin-Walled Structures*, Vol. 183, February 2023, 110377, DOI: 10.1016/j.tws.2022.110377.
14. A.H. Behravan, **S.M.H. Seyedkashi**, M. Sheikhi Azqandi, Optimum design and construction of cylindrical energy absorber under internal pressure using time

evolutionary optimization algorithm, *Modares Mechanical Engineering*, Vol. 23 (1), January 2023 (In Persian).

15. J. Derogar, **S.M.H. Seyedkashi**, M. Sajed, Experimental study of friction stir spot welding of a non-alloyed aluminum sheet with stationary shoulder, *Karafan Journal*, Vol. 19 (3), December 2022, pp. 141-161 (In Persian). DOI: 10.48301/kssa.2021.283937.1504.
16. S.H. Alavi Hashemi, **S.M.H. Seyedkashi**, Investigation on improvement of limit drawing ratio in two-stage hydrodynamic deep drawing of cylindrical cups, *Journal of the Brazilian Society of Mechanical Sciences and Engineering*, Vol. 44 (10), October 2022, 456, DOI: 10.1007/s40430-022-03760-z.
17. S.H. Alavi Hashemi, **S.M.H. Seyedkashi**, Investigation of consecutive two-stage hydrodynamic deep drawing of aluminium cylindrical cups, *Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture*, Vol. 236 (6-7), May 2022, pp. 920-931, DOI: 10.1177/09544054211062296.
18. F. Boroumand, **S.M.H. Seyedkashi**, M.H. Pol, Experimental analysis of the warm stamping of metal/thermoplastic polymer nanocomposite laminates, *Polymer Composites*, Vol. 43 (2), February 2022, pp. 1090-1106, DOI: 10.1002/pc.26438.
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20. M. Yavari Nouri, **S.M.H. Seyedkashi**, M. Sajed, Experimental investigation on process parameters of dissimilar double-layered wire produced by modified friction stir extrusion process, *International Journal of Advanced Design and Manufacturing Technology*, Vol. 14 (3), September 2021, pp. 1-7, DOI: 10.30495/admt.2021.1911339.1220.
21. S.E. Khandandel, **S.M.H. Seyedkashi**, Mahmoud Moradi, Numerical and experimental analysis of the effect of forced cooling on laser tube forming, *Journal of Brazilian Society of Mechanical Sciences and Engineering*, Vol. 43 (7), July 2021, 338, DOI: 10.1007/s40430-021-03063-9.
22. H. Bohluli, K. Khalili, **S.M.H. Seyedkashi**, An investigation on twist extrusion followed by forward extrusion in production of aluminum-copper bimetallic bar, *CIRP Journal of Manufacturing Science and Technology*, Vol. 33, May 2021, pp. 52-62, DOI: 10.1016/j.cirpj.2021.02.010.
23. F. Boroumand, **S.M.H. Seyedkashi**, M.H. Pol, Experimental study on stamping of metal/composite laminates reinforced with glass fibers and nanoclay particles, *Iranian Journal of Manufacturing Engineering*, Vol. 8 (2), April 2021, pp. 1-10 (In Persian).
24. M. Dorudgar, **S.M.H. Seyedkashi**, M. Sajed, Experimental study on manufacturing of bi-metal sandwiches with aluminum foam core and copper layers using friction stir welding, *Iranian Journal of Manufacturing Engineering*, Vol. 7 (12), February 2021, pp. 1-9 (In Persian).
25. H. Esrafili, **S.M.H. Seyedkashi**, M.S. Safizadeh, Experimental and numerical investigation on the reinforcement cover to concrete surface using eddy current, *Amirkabir Journal of Mechanical Engineering*, Vol. 52 (10), January 2021, pp. 693-696, DOI: 10.22060/mej.2019.15132.6039.
26. M. Sajed, **S.M.H. Seyedkashi**, Analysis of material flow and phase transformation in friction hydro-pillar processing of 1045 steel, *International Journal of Advanced Design and Manufacturing Technology*, Vol. 13 (4), December 2020, pp. 31-37, DOI: 10.30495/admt.2020.1900258.1198.
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36. S.M. Abedi, **S.M.H. Seyedkashi**, K. Khalili, A. Ashrafi, Experimental and numerical study of double y-shaped hydroforming using analysis of variance method, *Iranian Journal of Manufacturing Engineering*, Vol. 6 (7), 2019, pp. 34-41 (In Persian).
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38. D. Abolhasani, **S.M.H. Seyedkashi**, M. Hoseinpour Gollo, Y.H. Moon, Effects of laser beam parameters on bendability and microstructure of stainless steel in three-dimensional laser forming, *Applied Sciences*, Vol. 9 (20), 2019, pp. 4463, DOI: 10.3390/app9204463.
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41. D. Abolhasani, **S.M.H. Seyedkashi**, N.H. Kang, Y.J. Kim, Y.Y. Woo, Y.H. Moon, Analysis of melt pool behaviors during selective-laser-melting of AISI 304 stainless-steel composites, *Metals*, Vol. 9 (8), 876, 2019, DOI: 10.3390/met9080876.

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86. **S.M.H. Seyedkashi**, Gh. Liaghat, H. Moslemi Naeini, S.M. Zahir Mirdamadi, Investigation of the effects of internal pressure, axial feed and friction in hydroforming of copper tubes, *Modares Engineering Journal*, No. 31, 2008, pp. 79-89 (In Persian).

Conference Papers

مقالات علمی- کنفرانس‌های داخلی و خارجی

1. O. Mehrabi, **S.M.H. Seyedkashi**, M. Moradi, Experimental investigation on hatch distance of deposited layers of AISI 316l stainless steel fabricated by laser-directed energy deposition, The 6th National Conference on Computational and Experimental Mechanics (CEM2024), Tehran, Iran, 13 June 2024.
2. M. Balali, **S.M.H. Seyedkashi**, A. Hasanabadi, H. Gorji, H. Baseri, M. Khosravi, Investigating the effect of heat treatment and ultrasonic vibrations on the simple shear extrusion process to improve the mechanical properties of pure copper samples, The 6th National Conference on Computational and Experimental Mechanics (CEM2024), Tehran, Iran, 13 June 2024 (In Persian).
3. H. Golmakani, Y. Dadgar Asl, **S.M.H. Seyedkashi**, Numerical investigation of longitudinal buckling defect in the flexible roll forming process of double-layer sheets, The 6th National Conference on Computational and Experimental Mechanics (CEM2024), Tehran, Iran, 13 June 2024 (In Persian).
4. H. Golmakani, Y. Dadgar Asl, **S.M.H. Seyedkashi**, H. Badparva, Development of flexible roll forming simulation: a case study of copper-aluminum sheet, The 1st National Skill Conference of Iran (NSCI2024), Tehran, Iran, 22-23 April 2024 (In Persian).
5. O. Mehrabi, **S.M.H. Seyedkashi**, M. Moradi, Evaluation of microstructure and microhardness of AISI 316L stainless steel manufactured by laser-directed energy deposition, The 20th National Conference and 9th International Conference on Manufacturing Engineering (ICME2024), Tehran, Iran, 21-22 February 2024.
6. M. Balali, **S.M.H. Seyedkashi**, A. Hasanabadi, H. Gorji, H. Baseri, M. Khosravi, Optimization of CCC and CEC horns by response surface method and modal analysis, The 20th National Conference and 9th International Conference on Manufacturing Engineering (ICME2024), Tehran, Iran, 21-22 February 2024.

7. M. Asyabani, **S.M.H. Seyedkashi**, S.Y. Ahmadi Brooghani, Experimental investigation on effects of filling pattern on compressive strength of PLA honeycomb structure made by FDM method, The 20th National Conference and 9th International Conference on Manufacturing Engineering (ICME2024), Tehran, Iran, 21-22 February 2024.
8. M.A. Ghayour, M. Ghayour, Javad Ashourzadeh, **S.M.H. Seyedkashi**, Bronze and brass precision investment casting with ceramic mold and aid of vacuum, The 30th Annual International Conference of Iranian Society of Mechanical Engineers (ISME2022), Tehran, Iran, 10-12 May 2022.
9. M. Ghayour, M.A. Ghayour, **S.M.H. Seyedkashi**, Design and manufacturing of a core-shooting apparatus, The 30th Annual International Conference of Iranian Society of Mechanical Engineers (ISME2022), Tehran, Iran, 10-12 May 2022.
10. F. Boroumand, **S.M.H. Seyedkashi**, M.H. Pol, Experimental investigation and comparison of warm press forming of metal-nanocomposite laminates and aluminium sheet, The 18th National Conference and 7th International Conference on Manufacturing Engineering (ICME2022), Tehran, Iran, 2-3 March 2022 (In Persian).
11. M. Balali, **S.M.H. Seyedkashi**, A. Hasanabadi, H. Gorji, H. Baseri, M. Khosravi, Horn design and simulation for ultrasonic-assisted shear extrusion process, The 18th National Conference and 7th International Conference on Manufacturing Engineering (ICME2022), Tehran, Iran, 2-3 March 2022.
12. M. Ghayour, M.A. Ghayour, **S.M.H. Seyedkashi**, Design and manufacturing of a rotational molding apparatus, The 18th National Conference and 7th International Conference on Manufacturing Engineering (ICME2022), Tehran, Iran, 2-3 March 2022.
13. M.A. Ghayour, M. Niyazi, **S.M.H. Seyedkashi**, Effects of FDM process parameters on strength of steel PLA printed parts using Taguchi method, The 6th International and 17th National Conference on Manufacturing Engineering (ICME2021), Tehran, Iran, 2-4 March 2021.
14. M.A. Ghayour, **S.M.H. Seyedkashi**, M. Ghayour, Design and manufacturing of lead recycling apparatus from lead-acid battery waste, The 6th International and 17th National Conference on Manufacturing Engineering (ICME2021), Tehran, Iran, 2-4 March 2021.
15. M. Balali, **S.M.H. Seyedkashi,** Study of heat treated 2024 aluminum alloy behavior in simple shear extrusion process, The 6th International and 17th National Conference on Manufacturing Engineering (ICME2021), Tehran, Iran, 2-4 March 2021.
16. E. Ebrahimi Mahmoudabadi, A. H. Eslami, **S.M.H. Seyedkashi**, "Experimental investigation on parameters of electro-discharge machining of alpha titanium using copper and graphite electrodes", The 5th International and 16th National Conference on Manufacturing Engineering (ICME2019), Tehran, Iran, 25-26 December 2019.
17. M. Sajed, **S.M.H. Seyedkashi**, "Numerical analysis of multi-directional forging of AISI 52100 steel", The 5th International and 16th National Conference on Manufacturing Engineering (ICME2019), Tehran, Iran, 25-26 December 2019.
18. S. Taraghi, **S.M.H. Seyedkashi**, "Neuro-fuzzy modeling and optimization of the parameters of laser forming of composite laminated sheets", The 5th International and 16th National Conference on Manufacturing Engineering (ICME2019), Tehran, Iran, 25-26 December 2019.
19. D. Abolhasani, **S.M.H. Seyedkashi**, M. Hoseinpour Gollo, Y.H. Moon, "Investigation on three-dimensional laser bending of steel sheets", The 27th Annual International Conference of Iranian Society of Mechanical Engineers (ISME2019), Tehran, Iran, 30 April-2 May 2019.
20. M. Sajed, **S.M.H. Seyedkashi**, "Numerical analysis of temperature field and material flow in friction hydro pillar processing", The 27th Annual International Conference of Iranian Society of Mechanical Engineers (ISME2019), Tehran, Iran, 30 April-2 May 2019.
21. M. Sajed, **S.M.H. Seyedkashi**, "Numerical investigation on using of stationary shoulder in friction stir spot welding of Al6061 alloy", The 27th Annual International

Conference of Iranian Society of Mechanical Engineers (ISME2019), Tehran, Iran, 30 April-2 May 2019.

22. N. Nouri, M. Bahnam Taghadosi, **S.M.H. Seyedkashi**, "Designing of an eye tracking intelligent command system for people with spinal cord injuries", 1st Conference on Healthcare Computing Systems and Technologies (CHEST 2019), Birjand, South Khorasan, 17-18 April 2019.
23. M. Sajed, **S.M.H. Seyedkashi,** "Numerical analysis of material flow in friction stir extrusion", The 1st National Conference on Computational & Experimental Mechanics (CEM2019), Tehran, Iran, 28 Feburary 2019 (In Persian).
24. M. Jafari, **S.M.H. Seyedkashi**, "Experimental study and simulation of effects of entrance angle and bearing length on force and dimensional accuracy in extrusion process", The 4th International and 15th National Conference on Manufacturing Engineering (ICME2018), Tehran, Iran, 24-25 October 2018.
25. A. H. Eslami, H. Hosseini, **S.M.H. Seyedkashi**, "Study on the effects of accumulative roll bonding (ARB), repetitive corrugation & straightening (RCS) and multi-axial forging (MAF) processes on mechanical properties of pure copper", The 4th International and 15th National Conference on Manufacturing Engineering (ICME2018), Tehran, Iran, 24-25 October 2018.
26. F. Akbari, M. Sajed, A. Ashrafi, **S.M.H. Seyedkashi**, "Influence of welding parameters on strength of friction stir spot welded polyethylene sheets using two-stage refilling process", The 4th International and 15th National Conference on Manufacturing Engineering (ICME2018), Tehran, Iran, 24-25 October 2018.
27. H. Bohluli, K. Khalili, **S.M.H. Seyedkashi**, "Simulation of extrusion process using finite element method and prediction of the results using artificial neural networks", The 26th Annual International Conference on Mechanical Engineering (ISME2018), Semnan, Iran, 24-26 April 2018 (In Persian).
28. H. Karimian Rizi, K. Khalili, **S.M.H. Seyedkashi**, "Experimental study of the incremental forming of metal sheet using robot", The 14th Naional Conference on Manufacturing Engineering (ICME2017), Arak, Iran, 24-26 October 2017 (In Persian).
29. H.D. Abazari, **S.M.H. Seyedkashi**, M. Hoseinpour Gollo, "Investigation of mechanical structure on metal based composites formed by laser after tensile test", The 25th Annual International Conference on Mechanical Engineering (ISME2017), Tehran, Iran, 2-4 May 2017.
30. H.D. Abazari, **S.M.H. Seyedkashi**, M. Hoseinpour Gollo, "Effects of laser irradiations on layers condition in three-layered sheet metals", The 25th Annual International Conference on Mechanical Engineering (ISME2017), Tehran, Iran, 2-4 May 2017.
31. H.D. Abazari, **S.M.H. Seyedkashi**, M. Hoseinpour Gollo, "Investigation of the effect of copper layer on laser forming of stainless-steel/copper composite sheet", Iran's Industrial Composite Applications Conference, Tehran, Iran, January 25-26, 2017 (In Persian).
32. H.D. Abazari, **S.M.H. Seyedkashi**, M. Hoseinpour Gollo, "Investigation of the interlaminar changes of steel/copper-based composite under Ytterbium fiber laser irradiation", Iran's Industrial Composite Applications Conference, Tehran, Iran, January 25-26, 2017 (In Persian).
33. M. Sadeghi, M.H. Pol and **S.M.H. SeyedKashi**, "Experimental investigation on effects of addition of carbon nanotubes on QS-PS penetration in the glass/epoxy composite laminates", The 5th International Conference on Composites:

Characterization, Fabrication and Application (CCFA-5), Tehran, Iran, December 20-21, 2016.

34. M. Sadeghi, M.H. Pol and **S.M.H. SeyedKashi**, "Experimental investigation on effects of the addition of carbon nanotubes on the mechanical properties of glass/epoxy composite laminates", The 5th International Conference on Composites: Characterization, Fabrication and Application (CCFA-5), Tehran, Iran, December 20-21, 2016.
35. M. Kermansaravi, M.H. Pol and **M.H. SeyedKashi**, "Experimental investigation of the influence of adding nanotubes on Mode I interlaminar fracture toughness of laminated composites", The 5th International Conference on Composites: Characterization, Fabrication and Application (CCFA-5), Tehran, Iran, December 20-21, 2016.
36. M. Khoran, H. Amirabadi, S.M.H. Seyedkashi, H. Ghafurian Nosrati, Study of uncut fibers in machining of 3D woven composite, 2nd National Conference of Mechanics-Materials and Advanced technology, esfarayen, Iran, September 28-29, 2016 (In Persian).
37. A. Ghasemian, M. Hoseinpour, M.M. Sheikhi, **S.M.H. Seyedkashi**, "Experimental study and finite element simulation of hydroforming of bilayer conical cups using hydrodynamic radial pressure", The 1st National Conference on Mechanical Engineering and Industrial Solutions (MCMEIS2015), Mashhad, Iran, August 20-21, 2015 (In Persian).
38. **S.M.H. Seyedkashi**, Gh. Liaghat, "Periodic inspection of CNG cylinders; technical and social pathology", The 5th International CNG Conference, Tehran, Iran, December 12-13, 2012 (In Persian).
39. **S.M.H. Seyedkashi**, H. Mahmoudi, A. Khodadadi, F. Kargar, Gh. Liaghat, "Investigation of incidents in CNG refueling stations and the prevention methods", The 5th International CNG Conference, Tehran, Iran, December 12-13, 2012 (In Persian).
40. M. Mirzaalia, G. H. Liaghat, H. Moslemi Naeini, **S.M.H. Seyedkashi**, K. Shojaee, "Pressure and feeding loading path optimization in tube hydroforming process using a metaheuristic method; simulated annealing algorithm", Proceedings of the 10th International Conference on Technology of Plasticity (ICTP2011), Aachen, Germany, September 25-30, 2011.
41. M. Mirzaalia, G. H. Liaghat, H. Moslemi Naeini, **S.M.H. Seyedkashi**, K. Shojaee, "Optimization of tube hydroforming process using simulated annealing algorithm", Proceedings of 11th International Conference on the Mechanical Behavior of Materials (ICM11), Lake Como, Italy, June 5-9, 2011.
42. M.H. Pol, F. Hajiarazy, Gh. Liaghat, **S.M.H. Seyedkashi**, "Undesirable sudden curing of epoxy/clay nano-composites in VARTM manufacturing process", The 2nd International Conference on Composites: Characterization, Fabrication and Application (CCFA-2), Kish Island, Iran, December 27-30, 2010.
43. M. Dashti J., K. Shojaee G., **S.M.H. Seyedkashi**, M. Behnam T., "Novel simulated annealing algorithm in order to optimal adjustment of digital PID controller", The 11th International Conference on Control, Automation, Robotics and Vision (ICARCV 2010), Singapore, December 7–10, 2010 pp. 1766-1771, DOI: 10.1109/ICARCV.2010.5707430.
44. V. Panahizadeh R., H. Moslemi Naeini, **S.M. Seyedkashi**, Y. Dadgar Asl, M. Shalvandi, "Investigation of system parameters effects on bending angle in laser forming process using design of experiment method", The International Conference

on Experimental Mechanics (ICEM 2010), Kuala Lumpur, Malaysia, November 29-December 1, 2010.

45. Y. Dadgar Asl, H. Moslemi Naeini, B. Davodi, GH.H. Payganeh, V. Panahizadeh, M.R. Jangjo, **S.M. Seyedkashi**, "Numerical and experimental investigation of roll torque and forming power in cold roll forming of a channel section", The International Conference on Experimental Mechanics (ICEM 2010), Kuala Lumpur, Malaysia, November 29-December 1, 2010.
46. K. Shojaee G., N. Mollai, **S.M.H. Seyedkashi**, M. Mohsen Neshati, "New simulated annealing algorithm for quadratic assignment problem", The 4th International Conference on Advanced Engineering Computing and Applications in Sciences (ADVCOMP 2010), Florence, Italy, October 25–30, 2010, pp. 87-92.
47. K. Shojaee G., Mojtaba Behnam T., **S.M.H. Seyedkashi**, K. Shojaii, "Dynamic local search algorithm for solving traveling salesman problem", The 4th International Conference on Advanced Engineering Computing and Applications in Sciences (ADVCOMP 2010), Florence, Italy, October 25– 30, 2010, pp. 53-58.
48. M. Parto D., **S.M.H. Seyedkashi**, Gh. Liaghat, H. Moslemi Naeini, V. Panahizadeh R., "Investigation of aluminum-copper tube hydroforming with axial feeding", International Conference on Advances in Materials and Processing Technologies (AMPT2010), Paris, France, 24th-27th October, 2010; and AIP Conf. Proc. January 17, 2011, Volume 1315, pp. 475-480, DOI: 10.1063/1.3552491.
49. Y. Dadgar Asl, N. B. Mostafa, V. Panahizadeh. R, **S.M.H. Seyedkashi**, "Prediction of weld penetration in FCAW of HSLA steel using artificial neural networks", International Conference on Advances in Materials and Processing Technologies (AMPT2010), Paris, France, October 24-27, 2010; and AIP Conf. Proc. January 17, 2011, Volume 1315, pp. 884-889, DOI: 10.1063/1.3552564.
50. V. Panahizadeh. R, H. Moslemi Naeini, N.B. Mostafa, Y. Dadgar Asl, **S.M.H. Seyedkashi**, "Experimental and numerical investigation of effective parameters in laser forming process and their prediction by neural networks", The 11th Iranian Conference on Manufacturing Engineering (ICME2010), Tabriz, Iran, October 9-11, 2010 (In Persian).
51. V. Panahizadeh. R, H. Moslemi Naeini, Gh. Payganeh, Y. Dadgar Asl, **S.M.H. Seyedkashi**, "Prediction of the bending angle in laser forming process by neural networks", The 11th International Conference on Manufacturing Engineering (ICME2010), Tabriz, Iran, October 9-11, 2010 (In Persian).
52. M. Parto Dezfuli, **S.M.H. Seyedkashi**, Gh. Liaghat, H. Moslemi Naeini, R. Azizi Tafti, V. Panahizadeh. R, "Investigation of the effect of friction and axial feed in hydroforming of double layered tubes, The 11th International Conference on Manufacturing Engineering (ICME2010), Tabriz, Iran, October 9-11, 2010 (In Persian).
53. M. Dashti J., Ka. Shojaee G., **S.M.H. Seyedkashi**, M. Behnam T., "Tuning of digital PID controller using particle swarm optimization", Proceedings of The 29th Chinese Control Conference (CCC2010), Beijing, China, July 29-31, 2010, pp. 3383-3389.
54. H. Deilami Azodi; H. Moslemi Naeini; G.H. Liaghat; M.H. Parsa; **S.M.H. Seyedkashi**, "Analysis of the axisymmetric hydromechanical deep drawing using hill's quadratic yield criterion", CD Proceeding of the International Conference on Advances in Materials and Processing Technologies (AMPT2009), Kuala Lumpur, Malaysia, October 26-29, 2009.
55. **S.M.H. Seyedkashi**, R. Faramarzi, Gh. Liaghat, H. Moslemi Naeini, H. Deilami Azodi, "Free forming analytical modeling of two-layered tube hydroforming and experimental verification", CD Proceeding of the International Conference on

Advances in Materials and Processing Technologies (AMPT2009), Kuala Lumpur, Malaysia, October 26-29, 2009.

56. **S.M.H. Seyedkashi**, Gh. Liaghat, H. Moslemi Naeini, S.M. Mahdavian, M. Hoseinpour Gollo, "Numerical and experimental study of two-layered tube forming by hydroforming process", CD Proceeding of the International Conference on Advances in Materials and Processing Technologies (AMPT2009), Kuala Lumpur, Malaysia, October 26-29, 2009.
57. H. Moslemi Naeini, G.h. Liaghat, S.J. Hashemi Ghiri, **S.M.H. Seyedkashi**, "FE simulation and experimental study of tube hydroforming process for AA1050 alloy at various temperatures", CD Proceeding of the International Conference on Advances in Materials and Processing Technologies (AMPT2009), Kuala Lumpur, Malaysia, October 26-29, 2009.
58. M. Hoseinpour Gollo, H. Moslemi Naeini, Gh. Liaghat, S.M. Mahdavian, **S.M.H. Seyedkashi**, "Numerical and experimental investigation of deformation in laser forming process", The 12th International ESAFORM Conference on Material Forming (Esaform2009), Twente, Netherlands, April 27-29, 2009.
59. H. Moslemi Naeini, Gh. Liaghat, S.J. Hashemi, **S.M.H. Seyedkashi**, F. Rahmani, "Numerical study of thickness distribution in warm hydroforming of Aluminum tubes", 2nd Iranian National Manufacturing Engineering Conference, Najafabad, Iran, December, 2009 (In Persian).
60. **S.M.H. Seyedkashi**, R. Faramarzi, Gh. Liaghat, H. Moslemi Naeini, "Experiments and numerical simulation of Al/Cu double layered tubes by hydroforming process", 9th International Conference on Manufacturing Engineering (ICME2009), Birjand, Iran, March, 2009 (In Persian).
61. R. Azizi tafti, H, Moslemi Naeini, M. Tajdari, S. mazdak, **S.M.H. Seyedkashi**, "prediction of spring-back in cold roll forming process using neural networks", 9th International Conference on Manufacturing Engineering (ICME2009), Birjand, Iran, March, 2009 (In Persian).
62. **S.M.H. Seyedkashi**, Gh. Liaghat, H. Moslemi Naeini, M. Hosseinpour Golo, "Investigation of forming parameters in hydroforming of a thin-walled copper tube", CD Proceeding of the International Conference on Advances in Materials and Processing Technologies (AMPT2008), Manama, Bahrain, November 2-5, 2008.
63. **S.M.H. Seyedkashi**, Gh. Liaghat, H. Moslemi Naeini, "Design and manufacturing of a tube hydroforming system", CD Proceedings of Tehran International Congress on Manufacturing Engineering (TICME2007), Tehran, Iran, December 10-13, 2007.
64. Gh. Liaghat1, H. Moslemi Naeini, **S.M.H. Seyedkashi**, "Theoretical and experimental modeling of tube hydroforming process", Proceeding of International Conference on Manufacturing and Science Technology (ICOMAST2006), Melaka, Malaysia, August 28–30, 2006, pp 319-322.

Patents

1. M. Sajed, **S.M.H. Seyedkashi**, Multilayer friction stir plug welding, September 21, 2020.
2. J. Mahvelati, **S.M.H. Seyedkashi**, Pipe fixture capable of axial, rotational and hybrid movements, April 07, 2020.
3. M. Yavari Noori, M. Sajed, **S.M.H. Seyedkashi**, Production of bimetallic wire using friction stir extrusion, March 06, 2019.
4. M. Ghayour, M.A. Ghayour, **S.M.H. Seyedkashi**, Design and manufacturing of a lead recycling machine from residues of lead-acid battery, October 22, 2022

Honors and Awards

- Distinguished Researcher at University of Birjand, 2017, 2019, 2021, 2022 and 2023.
- Scientific committee member, The 20th National and 9th International Conference of Manufacturing Engineering (ICME2024), Tehran, Iran, 21-22 February 2024.
- Scientific committee member, The 1st National Skill Conference of Iran (NSCI2023), Tehran, Iran, 8-9 November 2023.
- Scientific committee member, The 2th National Conference on Advanced Machining and Machine Tools (CAMMT2022), Tehran, Iran, 19 October 2022.
- Scientific committee member, The 7th International and 18th National Conference on Manufacturing Engineering (ICME2022), Tehran, Iran, 2-3 March 2022.
- Scientific committee member, The 6th International and 17th National Conference on Manufacturing Engineering (ICME2021), Tehran, Iran, 2-4 March 2021.
- Central and Scientific committee member, The 5th International and 16th National Conference on Manufacturing Engineering (ICME2019), Tehran, Iran, 18-19 December 2019.
- Distinguished editor, The 5th International and 16th National Conference on Manufacturing Engineering (ICME2019), Tehran, Iran, 18-19 December 2019.
- Supervisor of the distinguished PhD dissertation, student: Daniyal Abolhasani, The 5th International and 16th National Conference on Manufacturing Engineering (ICME2019), Tehran, Iran, 18-19 December 2019.
- Scientific committee member, 27st Annual International Conference of Iranian Society of Mechanical Engineering (ISME2019), Tehran, Iran, 30 April-02 May 2019.
- Scientific committee member, 1st National Conference on Computational & Experimental Mechanics (CEM2019), Tehran, Iran, 28-29 Feburary 2019.
- Central and Scientific committee member, The 4th International and 15th National Conference on Manufacturing Engineering (ICME2018), Tehran, Iran, 24-25 October 2018.

Professional Courses

- Service and Maintenance of Power and Distribution Transformers, Iran Transfo After Sales Services Co., Zanjan, 2013
- Periodic Inspection of CNG Cylinders, ENK, Tehran, 2010
- CNG Sequential Systems, Farameh Int. Co. & Bigas Italy, 2010
- Basic Industrial Hydraulic Course, Festo Didactic, 2005
- WTO training course, ISME2005
- Senior License in English, Iran Language Institute, Mashhad, 1997
- Industrial Drawing, Iran technical and vocational training organization, Diploma, Mashhad, 1997

Professional Experiences

- Head of Academic Center for Education, Culture and Research, South Khorasan Branch, Since January 2023.
- Vice President for Academic Affairs, Birjand University of Technology, February 2019 to March 2022.
- Deputy of Education at Faculty of Engineering, University of Birjand, July 2017 to February 2019.
- Dean of Mechanical Engineering Group, University of Birjand, November 2016 to July 2017.
- Visiting Professor, Advanced Processing Technology Lab, Pusan National University, Busan, South Korea, 2014.
- Invited Professor, Imam reza international university, 2014-2018.
- Editor, Modares Mechanical Engineering Journal, Since 2013.
- Assistant Professor, University of Birjand, Birjand, Iran, Since 2012
- Visiting Researcher, Advanced Processing Technology Lab, Pusan National University, Busan, South Korea, 2011.
- Chairman/Member of the technical committee (TC) for 24 Iranian standards (ISIRI 13514, 14653, 14654, 14655-4, 14656, …)

- Directing manager, Farameh Nazeran Gas Co., 2010-2014.
- Training Manager, CNG Inspection and Installation Training courses, Farameh International Co., 2006-2012.
- Production Consulter, Noavaran Engineering Co., 2004-2012.
- R&D Manager, Sooyab Sanat Enginnering Co., 2004

Membership

- Member of International Advisory board, *Metals and Materials International* (2014-2018)
- Member of International Advisory board, *Transactions of Materials Processing* (By by The Korean Society for Technology of Plasticity)
- Member of editorial board, *Modares Mechanical Engineering*
- Member of editorial board, The quarterly scientific-research journal "*Karafan*"
- Member of editorial board, *Mechanic of Advanced and Smart Materials*
- Member of editorial board, *Mechatronics Engineering*
- Reviewer of the *Metals and Materials International*
- Reviewer of the *International Journal of Machine Tools & Manufacture*
- Reviewer of the *International Journal of Mechanical Sciences*
- Reviewer of the *Optics & Laser Technology*

2. Reviewer of the *Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture*

- Reviewer of the *Journal of Mechanical Science and Technology*
- Reviewer of the *Fatigue and Fracture of Engineering Materials and Structures*
- Reviewer of the *Materials Today Communications*
- Reviewer of the *Materials*
- Reviewer of the *Crystals*
- Reviewer of the *Applied Composite Materials*
- Reviewer of the *Engineering Science and Technology, an International Journal*
- Reviewer of the *Manufacturing Letters*
- Reviewer of the *SN Applied Sciences*
- Reviewer of the *Journal of the Mechanical Behavior of Materials*
- Reviewer of the *Scientia Iranica*
- Reviewer of the *Journal of Engineering Research*
- Reviewer of *Modares Mechanical Engineering*
- Reviewer of *Amirkabir Journal of Science & Research-Mechanical Engineering Technology Journal*
- Reviewer of *Journal of Computationaland Applied Sciences in Mechanics*
- Reviewer of *Journal of Modeling in Engineering*
- Reviewer of the *Journal of Solid and Fluid Mechanics*
- Reviewer of the *Karafan Journal of Technical and Vocational University*
- Reviewer of *Iranian Journal of Mechanical Engineering: Transactions of the ISME*
- Member and co-chairman of TC58, Iranian National Standards Organization
- Member of Mechanical Engineering Society of Iran
- Member of Manufacturing Engineering Society of Iran
- Member of Society of Iranian Petroleum Industries Equipment
- Member of Iranian Society of Heating and Refrigerating Engineers
- Member of Orthopedic-Biomechanics research group, University of Birjand

Computer Skills

- ICDL
- Engineering Software:
  - Marc/mentat
  - Catia
  - Autocad
  - Mechanical Desktop
  - Solidworks
  - Working 3D Model
  - Power Mill
  - ETA/Dynaform
  - Ls-Dyna
  - Marc\Mentat

- Automation Studio
- Matlab
- Ansys
- Abaqus
- Minitab

English Proficiency

IELTS: Overall: 7.0
(Listening: 7.0, Reading: 7.5, Writing: 6.0, Speaking: 7.5)