

Curriculum Vitae



Assist. Prof. Dr. Mohsen Soori

Final International University, Girne, North Cyprus

Date of Birth: 06 May 1980

E-Mails: mohsen.soori@final.edu.tr, Mohsen.soori@gmail.com, m.soori@aut.ac.ir

Research Interests: Manufacturing Engineering, Computer Aided Design and Manufacturing (CAD/CAM), Computer Integrated Manufacturing (CIM), Virtual Manufacturing, Applied Mathematics

Education:

September 2018-February 2022

PH.D.,

Eastern Mediterranean University, Department of Mechanical Engineering, Famagusta, Cyprus, 2022

Major: Mechanical Engineering, Minor: Manufacturing & Production

Title of Thesis: Virtual Machining Systems in CNC Milling Machine Tools

Supervisor of Ph.D. Thesis: Assist. Prof. Dr. Mohammed Asmael, Department of Mechanical Engineering, Eastern Mediterranean University, Famagusta, Cyprus, E-Mail: mohammed.asmael@emu.edu.tr

GPA: 3.96/4

September 2010- September 2012

M. Sc.,

Amirkabir University of Technology (Tehran Polytechnic), Department of Mechanical Engineering, Tehran, Iran, 2012

Major: Mechanical Engineering, Minor: Manufacturing & Production

Title of Thesis: Virtual machining by considering dimensional, geometric and tool deflection errors in three-axis CNC milling machines

Selected as the best M.Sc. thesis by department of mechanical engineering, Amirkabir University of Technology for the year of 2012-2013, (Grade: 19/20)

Supervisor of M.Sc. Thesis: Prof. Dr. Behrooz Arezoo, Professor of Mechanical Engineering, Amirkabir University of Technology (Tehran Polytechnic), Email: arezoo@aut.ac.ir, barezoo@yahoo.com **GPA:**

16.78/20, 3.35/4

Supervisor of Research in the Field of Applied Mathematics: Prof. Dr. S. Salman Nourazar, Professor of Mechanical Engineering, Amirkabir University of Technology (Tehran Polytechnic), Chair of Mechanical Engineering Department, Amirkabir University of Technology (Tehran Polytechnic), Tehran, Iran, Emails : nourazar@aut.ac.ir, salman.nourazar@yahoo.com

June 2007

B. Sc.,

Shahid Rajaei Teacher Training University, Department of Mechanical Engineering, Tehran, Iran, 2007

Major: Mechanical Engineering, Minor: Manufacturing & Production

Title of Thesis: Analysis of special production method Magnetic Abrasive Finishing (MAF).
(Grade:19.5/20)

Supervisor: Prof. Dr. Nasrallah Bani Mostafa Arab, Associate Professor of Mechanical Engineering, Shahid Rajaei Teacher Training University, Tehran, Iran, Email : n.arab@srttu.edu

GPA: 16.98/20 - (3rd Rank, Excellent), 3.39/4

Secondary Education Studies, Rah-e-Imam High School, Pakdasht, Tehran Province, Iran, 1998

Major: Mathematics & Physics,

Academic Publications:

ORCID: <https://orcid.org/0000-0002-4358-7513>

Google scholar: <https://scholar.google.com/citations?user=tEAuK-EAAAAJ&hl=en>

Citations: 2580, h-index: 27, i10-index: 53

Web of Science ResearcherID: P-9155-2014

Scopus Author Identifier: 58577943100

Journal Papers: Manufacturing Engineering, CAD/CAM published papers:

SCIE papers

- 1- **M. Soori**, B. Arezoo, M. Habibi, Dimensional and geometrical errors of three-axis CNC milling machines in a virtual machining system, Computer-Aided Design, 45(11), 1306-1313, 2013. <https://doi.org/10.1016/j.cad.2013.06.002>
- 2- **M. Soori**, B. Arezoo, M. Habibi, Virtual machining considering dimensional, geometrical and tool deflection errors in three-axis CNC milling machines, Journal of Manufacturing Systems, 33(4), 498- 507, 2014. <https://doi.org/10.1016/j.jmsy.2014.04.007>
- 3- **M. Soori**, B. Arezoo, M. Habibi, Tool Deflection Error of Three-Axis Computer Numerical Control Milling Machines, Monitoring and Minimizing by a Virtual Machining System, Transactions of the ASME, Journal of Manufacturing Science and Engineering, 138(8), 081005, 2016. <https://doi.org/10.1115/1.4032393>
- 4- **M. Soori**, M. Asmael, Minimization of Deflection Error in Five Axis Milling of Impeller Blades, Facta universitatis, series: mechanical engineering, 21(2), 175-190, 2021. <https://doi.org/10.22190/FUME210822069S>
- 5- **M. Soori**, M. Asmael, Virtual Minimization of Residual Stress and Deflection Error in Five-Axis Milling of Turbine Blades, Strojniski Vestnik/Journal of Mechanical Engineering, 67(5), 235-244, 2021. <https://doi.org/10.5545/sv-jme.2021.7113>
- 6- **M. Soori**, M. Asmael, Afrasyab Khan, Naeim Farouk, Minimization of Surface Roughness in Five Axis Milling of Turbine Blades, Mechanics Based Design of Structures and Machines, 51(9), 1-18, 2021. <https://doi.org/10.1080/15397734.2021.1992779>
- 7- **M. Soori**, B. Arezoo, Cutting Tool Wear Minimization in Drilling Operations of Titanium alloy Ti6Al4V, Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering

- Tribology, 237(5), 1250-1263, 2023. <https://doi.org/10.1177/13506501231158259>
- 8- **M. Soori**, B. Arezoo, Minimization of Surface Roughness and Residual Stress in Abrasive Water Jet Cutting of Titanium Alloy Ti6Al4V, Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 2023. <https://doi.org/10.1177/09544089231157972>
 - 9- **M. Soori**, B. Arezoo, The Effects of Coolant on the Cutting Temperature, Surface Roughness and Tool Wear in Turning Operations of Ti6Al4V Alloy, Mechanics Based Design of Structures and Machines, 2023. <http://dx.doi.org/10.1080/15397734.2023.2200832>
 - 10- **M. Soori**, Deformation Error Compensation in 5-Axis Milling Operations of Turbine Blades, The Journal of the Brazilian Society of Mechanical Sciences and Engineering, 45(289), 1-16, 2023. <http://dx.doi.org/10.1007/s40430-023-04230-w>
 - 11- **M. Soori**, F. Karimi Ghleh Jough, Minimization of Residual Stress, Surface Roughness and Tool Wear in Electro Discharge Machining of Inconel 625, Journal of Engineering Research, 2024. <https://doi.org/10.1016/j.jer.2024.05.028>
 - 12- **M. Soori**, F. Karimi Ghleh Jough, B. Arezoo, Residual Stress and Surface Roughness Minimization in Laser Cutting of 304L Stainless Steel, Scientia Iranica, 2024.

ESCI papers (Web of Science)

- 1- **M. Soori**, B. Arezoo, M. Habibi, Accuracy analysis of tool deflection error modeling in prediction of milled surfaces by a virtual machining system, International Journal of Computer Applications in Technology, 55(4), 308-321, 2017. <https://doi.org/10.1504/IJCAT.2017.086015>
- 2- **M. Soori**, M. Asmael, D. Solyali, Recent Development in Friction Stir Welding Process, A Review, SAE International Journal of Materials and Manufacturing, 14 (1), 1-18, 2020. <https://doi.org/10.4271/05-14-01-0006>
- 3- **M. Soori**, M. Asmael, Mechanical Behavior of Materials in Metal Cutting Operations, A Review, Journal of New Technology and Materials, 10 (2), 79-82, 2020.
- 4- **M. Soori**, M. Asmael, Classification of Research and Applications of the Computer Aided Process Planning in Manufacturing Systems, Independent Journal of Management & Production, 12 (5), 1- 32, 2020. <https://doi.org/10.14807/ijmp.v12i5.1397>
- 5- **M. Soori**, M. Asmael, Cutting temperatures in Machining Operations of Hard to Cut Materials, Journal of New Technology and Materials, 11(1), 45-76, 2021.
- 6- R. Dastres, **M. Soori**, M. Asmael, Radio Frequency Identification (RFID) Based Wireless Manufacturing Systems, A Review, Independent Journal of Management & Production, 13(1), 258-290, 2021. <http://orcid.org/0000-0002-4358-7513>
- 7- **M. Soori**, M. Asmael, A Review in Recent Development of Machining Parameter Optimization, The Jordan Journal of Mechanical and Industrial Engineering, 16(2), 205-223, 2022.
- 8- **M. Soori**, B. Arezoo, A Review in Machining-induced Residual Stress, Journal of New Technology and Materials, 12(1), 64-83, 2022.
- 9- **M. Soori**, B. Arezoo, Cutting Tool Wear Prediction in Machining Operations, A Review, Journal of New Technology and Materials, 12(2), 15-26, 2022.
- 10- **M. Soori**, B. Arezoo, Dimensional, Geometrical, Thermal and Tool Deflection Errors Compensation in 5-Axis CNC Milling Operations, Australian Journal of Mechanical Engineering. 2023 <https://doi.org/10.1080/14484846.2023.2195149>
- 11- **M. Soori**, B. Arezoo, Effects of Cutting Parameters to Cutting Tool Life and Temperature during Milling Operations of Stainless-Steel Alloy AISI1038, Journal of New Technology and Materials, 18(1), 33-48, 2023.
- 12- **M. Soori**, Advanced Composite Materials and Structures , Journal of Materials and Engineering Structures, 10(2), 249-272, 2023.
- 13- **M. Soori**, B. Arezoo, Modification of CNC Machine Tool Operations and Structures using Finite Element Methods, The Jordan Journal of Mechanical and Industrial Engineering, 17(3), 327– 343, 2023. <https://doi.org/10.59038/jjmie/170302>
- 14- **M. Soori**, B. Arezoo, R. Dastres, Robotical Automation in CNC Machine Tools, A Review, Acta Mechanica et Autometica, 2023. Accepted.

International Journals (Advanced manufacturing, Artificial Intelligence and Information Technology)

- 1- **M. Soori**, B. Arezoo, Virtual Machining in Computer Numerical Control Machine Tools: A Review,

International Journal of Engineering and Future Technology, 18 (1), 56-104, 2021.

- 2- R. Dastres, **M. Soori**, Secure Socket Layer (SSL) in the Network and Web Security, International Journal of Computer and Information Engineering, 14(10), 330-333, 2020.
- 3- Roza Dastres, **M. Soori**, A review in recent development of network threats and security measures, International Journal of Information Sciences and Computer Engineering, 15(1), 75-81, 2021.
- 4- R. Dastres, **M. Soori**, Advanced Image Processing Systems, International Journal of Imaging and Robotics, 21(1), 27-44, 2021.
- 5- R. Dastres, **M. Soori**, Impact of Meltdown and Spectre on CPU Manufacture Security Issues, International Journal of Engineering and Future Technology, 18(2), 62-69, 2020.
- 6- R. Dastres, **M. Soori**, Artificial Neural Network Systems, International Journal of Imaging and Robotics, 21(2), 13-25, 2021.
- 7- R. Dastres, **M. Soori**, A Review in Advanced Digital Signal Processing Systems, International Journal of Electrical and Computer Engineering, 15(3), 122-127, 2021.
- 8- R. Dastres, **M. Soori**, Advances in Web-Based Decision Support Systems, International Journal of Engineering and Future Technology, 19(1), 1-15, 2021.
- 9- R. Dastres, **M. Soori**, The Role of Information and Communication Technology (ICT) in Environmental Protection, International Journal of Tomography and Simulation, 35(1), 24-37, 2021.
- 10- M. Soori, B. Arezoo, R. Dastres, Machine Learning and Artificial Intelligence in CNC Machine Tools, A Review, Sustainable Manufacturing and Service Economics Journal, 2023. <https://doi.org/10.1016/j.smse.2023.100009>
- 11- **M. Soori**, B. Arezoo, R. Dastres, Artificial Intelligence, Machine Learning and Deep Learning in Advanced Robotics, A Review, Cognitive Robotics, 3, 54-70, 2023. <https://doi.org/10.1016/j.cogr.2023.04.001>
- 12- **M. Soori**, B. Arezoo, R. Dastres, Internet of Things for Smart Factories in Industry 4.0, A Review, Internet of Things and Cyber Physical Systems, 3, 192-204, 2023. <https://doi.org/10.1016/j.iotcps.2023.04.006>
- 13- **M. Soori**, B. Arezoo, R. Dastres, Optimization of Energy Consumption in Industrial Robots, A Review, Cognitive Robotics, 3, 142-157, 2023. <https://doi.org/10.1016/j.cogr.2023.05.003>
- 14- **M. Soori**, B. Arezoo, R. Dastres, Digital Twin for Smart Manufacturing, A Review, Sustainable Manufacturing and Service Economics Journal, 2023, <https://doi.org/10.1016/j.smse.2023.100017>
- 15- **M. Soori**, B. Arezoo, Advanced Virtual Manufacturing Systems, A Review, Journal of Advanced Manufacturing Science and Technology, 3(3), 1-17, 2023. <https://doi.org/10.51393/j.jamst.2023009>
- 16- **M. Soori**, B. Arezoo, R. Dastres, Virtual Manufacturing in Industry 4.0, A Review, Data Science and Management, 2023. <https://doi.org/10.1016/j.dsm.2023.10.006>
- 17- **M. Soori**, B. Arezoo, R. Dastres, Artificial Neural Networks in Supply Chain Management, A Review, Journal of Economy and Technology, 2023. <https://doi.org/10.1016/j.ject.2023.11.002>
- 18- **M. Soori**, F. Karimi Ghleh Jough, R. Dastres, B. Arezoo, Sustainable CNC Machining Operations, A Review, Sustainable Operations and Computers, 5, 73-87, 2024. <https://doi.org/10.1016/j.susoc.2024.01.001>
- 19- **M. Soori**, F. Karimi Ghleh Jough, Artificial Intelligent in Optimization of Steel Moment Frame Structures, A Review, International Journal of Structural and Construction Engineering, 18(3), 141-158, 2024.
- 20- **M. Soori**, F. Karimi Ghleh Jough, B. Arezoo, Surface Quality Enhancement by Constant Scallop-Height in Three-Axis Milling Operations, 14, 100208, 2024. <https://doi.org/10.1016/j.rsufi.2024.100208>
- 21- **M. Soori**, F. Karimi Ghleh Jough, R. Dastres, B. Arezoo, Intelligent Robotic Systems in Industry 4.0, A Review, 4(3), 2024007, 2024. <https://doi.org/10.51393/j.jamst.2024007>
- 22- **M. Soori**, B. Arezoo, R. Dastres, AI-powered blockchain technology in industry 4.0, a review, Journal of Economy and Technology, 1, 222-241, 2023, <https://doi.org/10.1016/j.ject.2024.01.001>
- 23- **M. Soori**, F. Karimi Ghleh Jough, R. Dastres, B. Arezoo, Blockchains for Industrial Internet of Things in Sustainable Supply Chain Management of Industry 4.0, A Review, Sustainable Manufacturing and Service Economics, 2024, <https://doi.org/10.1016/j.smse.2024.100026>

Applied Mathematics International Journals

- 1) S. S. Nourazar, **M. Soori**, A. Nazari-Golshan, On the exact solution of Newell-Whitehead-Segel equation using homotopy perturbation method, Australian Journal of Basic and Applied Sciences, 5 (8),1400-1411, 2011.
- 2) **M. Soori**, S. S. Nourazar, A. Nazari-Golshan, Application of the Variational Iteration Method and

the Homotopy Perturbation Method to the Fisher Type Equation, International Journal of Mathematics and Computation, 27(3), 1-9, 2015.

- 3) S. S. Nourazar, **M. Soori**, A. Nazari-Golshan, On the homotopy perturbation method for the exact solution of Fitzhugh–Nagumo equation, International Journal of Mathematics and Computation, 27 (1), 32-43, 2015.
- 4) S. S. Nourazar, **M. Soori**, A. Nazari-Golshan, On the exact solution of Burgers-Huxley equation using the homotopy perturbation method, Journal of Applied Mathematics and Physics, 3 (3), 285-294, 2015. <http://dx.doi.org/10.4236/jamp.2015.33042>

Book and Book chapter:

- 1) **M. Soori**, Virtual Product Development, Book Chapter in GRIN Publishing, Munich, Germany, 2019. ISBN 3668891753, 9783668891753.
- 2) **M. Soori**, S. S. Nourazar, On The Exact Solution of Nonlinear Differential Equations Using Variational Iteration Method and Homotopy Perturbation Method, Book in GRIN Publishing, Munich, Germany, 2019. ISBN 3668866546, 9783668866546

Verified peer reviews in the Web of Science: (290)

<https://www.webofscience.com/wos/author/record/P-9155-2014>

Experiences:

Final International University, Cyprus

- **Assistant Professor in Mechanical Engineering**, Final International University, Girne, Cyprus, February 2024-Now.

University of Kyrenia, Kyrenia, Cyprus

- **Head of Aeronautical Engineering Department**, University of Kyrenia, Kyrenia, Cyprus, June 2022-February 2024.
- **Assistant Professor in Mechanical Engineering**, Aeronautical Engineering Department, University of Kyrenia, Girne, Cyprus, 10 April 2023- February 2024.
- **Lecturer in Mechanical Engineering Courses**, Aeronautical Engineering Department, University of Kyrenia, Girne, Cyprus, 6 March 2022-10 April 2023

Eastern Mediterranean University, Famagusta, Cyprus

- **Lecturer: Instructor of the MENG231 (Engineering Mechanics) as Statics and Dynamics**, Fall 2019-Fall 2022 (Five semesters)
- **Teacher Assistant** in Courses as, Manufacturing Engineering, CAD/CAM, Machining Abilities, CAPP, Solid Mechanics (Statics, Strength of Materials and Dynamics) 2018 - Now
- **Research Assistant** in Mechanical and Manufacturing Engineering, Spring 2018–Fall 2022

Amirkabir University of Technology (Tehran Polytechnic), Tehran, Iran

- **Teacher Assistant** in Courses as Mathematics (Differential Equations), Manufacturing Engineering, CAD/CAM, Machining Abilities, CAPP, Solid Mechanics (Statics, Strength of Materials and Dynamics) November 2010 - December 2014
- **Research Assistant** in Mechanical and Manufacturing Engineering, September 2012 -September 2018

Mapna Power Plant Company, Tehran, Iran

- Computer aided design and computer aided manufacturing of turbine blades for the steamgenerators, January 2015 - September 2018

Iran Khodro Automotive Company, Tehran, Iran

- Quality control of produced car parts by the NDT methods, September 2007 - September 2010

English Language: Professional

I received my Ph.D. in Mechanical Engineering from the Eastern Mediterranean University by the English Language. I am also working as Assistant Professor of Mechanical Engineering at the Final International University by the English Language.

Persian Language: Native

Awards & Honors

2018, Full fund Ph.D. scholarship, Eastern Mediterranean University, Famagusta, North Cyprus, Via Mersin 10, Turkey

2013, Selection of M.Sc. thesis as the best one by Department of Mechanical Engineering, Amirkabir University of Technology (Tehran Polytechnic) for the year of 2012-2013, Tehran, Iran

2010, Grade 41 in the entrance exam of M.Sc. degree in the field of mechanical engineering between about 3000 competitor, Iran

2008, Top rank student (**3rd Rank**) in B. Sc. degree with GPA 16.98 (out of 20), Department of Mechanical Engineering, Shahid Rajaee Teacher Training University, Tehran, Iran

Computer Skills

Windows, Internet and Microsoft Office

Well Qualification of computer software's: Solid work, Catia, Master CAM, PowerMill, Abaqus, ANSYS, Mold flow, Maple

Programming Languages: Visual Basic, C++, MATLAB, Visual FORTRAN

Extracurricular activities

Sport (Nowadays)

- Swimming
- Bicycling

References:

1- Prof. Akbar Abbasi

Professor of Physics, University of Kyrenia

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2- Assoc. Prof. Mehdi Shahedi Asl

Associate Professor of Mechanical Engineering, University of Kyrenia

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3- Assist. Prof. Mohammed Asmael

Assistant Professor of Mechanical Engineering, Eastern Mediterranean University

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4- Assoc. Prof. Babak Safaei

Assistant Professor of Mechanical Engineering, Eastern Mediterranean University

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5- Prof. Behrooz Arezoo

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6- Prof. S. Salman Nourazar

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