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Associate Professors, Sharif University of Technology



دکتر رمضانعلی مهدوی نژاد
عضو هیأت علمی دانشگاه تهران
سطح علمی: دانشیار

Education

- PHD; Manufacturing, University of Tarbiat Modarres, Iran, 1999
- M. Se; Mechanical Engineering, University of Tehran, Iran, 1989
- B. Se; Mechanical Engineering, University of Tehran, Iran, 1981

Research Area

- Conventional and Non-traditional Machining methods
- Advanced machining methods
- Metrology and instrumentation
- Design and Development of Artificial Neural Network Method for Prediction of ED Machining Parameters of SiC

Teaching Interests

- Non-Traditional Manufacturing Processes Testing Machine Tools Machining Processes Manufacturing Processes

Supervised M.Sc. Thesis

- Feasibility Study of Medium Caliber Barrel Rifling and Gun Barrel Chamber Polishing by Electrochemical Machining .
- Design and Modeling of Ultrasonic Transducers via Finite Element Method
- Investigation of dynamic Stability of Chatter Vibration in Turning Operation
- Job Shop Scheduling by Combinatorial and Hybrid Algorithms for Minimizing the Make Span
- Automation Handwell Frame Welding of Pride Automobile
- Investigation of Self-Excited Vibration in the Bed of a Lathe
- Mechanical and Thermal Stress Analysis in the spindle of Turning Machines
- Design and Modeling of Rifling Tool of Gun Pipe via Electrochemical Machining

May 24-25, 2009 Razi International Conference Center, Tehran, Iran

Conference Papers

- R. Mahdavinejad "A Step Forward to ED Machining of SiC" International Mechanical Engineering Conference, 5-8 December 2004, Kuwait .
- M. Toluei Rad and R. Mahdavinejad "A Solution to CAD/CAM Integration" The 5th International Conference on Integrated Design and Manufacturing in Mechanical Engineering, 5-7 April 2004, Bath, UK .
- R.A. Mahdavinejad "Implementation of a dynamic control method for instantaneous motor torque in CNC system with open-architecture " The 2th International Conference on Mechatronics, 10-12 May 2005, Kuala Lumpur, Malaysia .
- R.A. Mahdavinejad "Heat transfer analysis of EDM process on Silicon Carbide" First International Conference on Simulation of Electrochemical Processes, Organized by Wessex Institute of Technology, 2005, Spain .
- R.A. Mahdavinejad "Robots and CNC machines with control architecture design" 9th International Conference on Mechatronics Technology, 5-8 December 2005, Kuala Lumpur, Malaysia .
- R.A. Mahdavinejad "A step forward to chatter analysis in turning machines " The Worldwide Conference "COMMENT" 16-19 May 2005, Gliwice, Poland
- R.A. Mahdavinejad and M.R. Hatami Application of basic electrochemical theories in polishing of inner surface tubes "The 7th Scientific Conference CAM3S, 6-9 December 2005, Zakopane Poland .

Journals Papers

- R.A. Mahdavinejad "Finite Element Dimensional Design and Modeling of an Ultrasonic Transducer" Iranian Journal of Science and Technology, B2(29), 2005
- R.A. Mahdavinejad "Finite Element Analysis of Machine and Workpiece Instability in Turning" International Journal of Machine Tools & Manufacture, Vol.45, 2005 .
- R.A. Mahdavinejad, M. Toluei Rad and H. Sharifi Bidgoli "Heat Transfer Analysis of EDM Process on Silicon Carbide" International Journal of Numerical Methods for Heat and Fluid Flow, 7(15), 2005 .
- R.A. Mahdavinejad and A.R. Mahdavinejad " ??ED machining of WC-Co" Journal of Material Processing Technology, Vol.162, 2005 .
- R. Mahdavinejad, M. Mehraban and D. Mahdavinejad "The behaviour of REFEL SiC under electrodischarge machining" Journal of Engineering Manufacture Part B, Vol.220, 2006 .
- R.A. Mahdavinejad, H.R. Hassani "Computer Simulation of rifling slots by electrochemical machining" Iranian Journal of Engineering Faculty, Vol.38, 2005 .
- R.A. Mahdavinejad, M.M. Majidi "Vibration Analysis of Tailstock" Iranian Journal of Mazandaran University, Vol.2, 2003
- R.A. Mahdavinejad "Multi-Function Job Shop Scheduling Problem via Antcolony Algorithm" Iranian Journal of Mazandaran University, Vol.1, 2002 .

Books

- R.A. Mahdavinejad " Machine Tool Testing " University of Tehran-Center Publishing, 2004 .
- R.A. Mahdavinejad " Non-Conventional Manufacturing Process " University of Tehran-Center of Publication, 2005 .