Dr. Rasul Mohebbi

Assistant Professor of Mechanical Engineering
School of Mechanical Engineering, Damghan University, Damghan, Iran
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Educational Background:

- **Shahrood University of Technology, Shahrood, Iran (2009-2013)**
  P.H.D. in Mechanical Engineering
- **Shahrood University of Technology, Shahrood, Iran (2005-2007)**
  M.Sc. in Mechanical Engineering
- **Shahrood University of Technology, Shahrood, Iran (2000-2005)**
  B.Sc. in Mechanical Engineering
- **Allameh Helli Talent High school, Shahrood, Iran**
  Diploma in Math and Physics

Objectives and major Interests:

- Lattic Boltzmann Method
- Nano Fluid
- Wind Tunnel
- Exergy and Thermodynamics
- Computational Fluid Dynamics
- Fluid Mechanics and Heat Transfer
- Analytic mathematics in Mechanics

Graduate Courses:

- Advanced Engineering Mathematics, Advanced Numerical Methods, Continuum Mechanics, Boundary Layer Condition, Computational Fluid Dynamics, Advanced Thermodynamics, Radiation Heat Transfer, Convection Heat Transfer

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Teaching Experience:

- Teaching: Teacher of ***Static, Heat transfer, Heat Exchanger, Fluid Mechanic, Thermodynamics*** (Fall 2013, Until Now) in Damghan University
- Teaching: Teacher of ***Thermodynamics, Fluid Mechanics Lab, Thermodynamics Lab*** (Fall 2008, 2009) in Shahrood University of Technologhy
- Teaching Assistant: Teacher Assistant of ***Fluid Mechanics, Thermodynamics, Engineering Mathematics, Heat Transfer*** (Fall 2005, 2007) Responsibilities included: Holding discussion and problem solving classes, grading exercises and exam problems, designing problems for quizzes and exams, grading programming project.
- Teaching ***Hydraulic, Excel in Accounting and Programming C++*** in Azad University of Shahrood (spring 2008-Until Now)
- Teaching ***Mathematics, Physics*** to undergraduate students as a tutor (2001, up to now)

Computer Skills:

- Mathematical Software: **MATLAB, MAPLE**, **FORTRAN**
- Mechanical engineering software**: AutoCAD, Fluent, Comsol**
- Operating Systems: **Windows (95/98/XP/Vista/7/8/10), Excel, Photoshop**
- Typesetting: **Microsoft word**

Publications:

[1]- **(ISI**) Nazari M., Kayhani M. H., Mohebbi R., Heat Transfer Enhancement in a Channel Partially Filled with a Porous Block: Lattice Boltzmann Method, **International Journal of Modern Physics C,** Vol. 24, No. 9 (2013) 1350060 (20 pages).

[2]- **(ISI**) Nazari M., Mohebbi R., Kayhani M. H., Power-Law Fluid Flow and Heat Transfer in a Channel with a Built-In Porous Square Cylinder: Lattice Boltzmann Simulation, **Journal Non-Newtonian Fluid Mechanic,** 204, 38-49 (2014).

[3]- **(ISI)** Mohebbi R., Nazari M., Kayhani M. H., Comparative Study of Forced Convection of a Power-Law Fluid in a Channel with a Built in Square Cylinder, **Journal of Applied Mechanics and Technical Physics**, Vol. 57, No. 1 (2016), pp. 55–68.

[4]- **(ISI)** Heidari H., Mohebbi R., Safarzade A., Parameter Estimation in Fractional Convection Diffusion Equation, **PONTE International Scientific Research Journal**, 72 (2), Feb 2016, Vol. 57, No. 1 (2016), pp. 55–68

[5]- **(ISI)** R. Mohebbi, H. Heidari, Lattice Boltzmann simulation of fluid flow and heat transfer in a parallel-plate channel with transverse rectangular cavities, **Int. J. Modern Phys C**, Vol. 28, No. 3, 1750042 (2017).

[6]- **(ISI)** Mohebbi R., Rashidi M. M., Numerical Simulation of Natural Convection Heat Transfer of a Nanofluid in an L-Shaped Enclosure with a Heating Obstacle, **Journal of the Taiwan Institute of Chemical Engineers,** 72 (2017) 70–84.

[7]- **(ISI)** Mohebbi R., Lakzayi, H., Nor Azwadi Che Sidik., Japar. Wan Mohd Arif Aziz, Lattice Boltzmann Method Based Study of the Heat Transfer Augmentation Associated with Cu/Water Nanofluid in a Channel with Surface Mounted Blocks, **International Journal of Heat and Mass Transfer**,117, 2018, 425-435.

[8]- **(ISI)** Mohebbi, R., Rashidi, M. M., Izadi, M., Sidik, N. A. C., Xian, H. W., Forced Convection of Nanofluids in an Extended Surfaces Channel using Lattice Boltzmann Method , **Int. J. Heat Mass Transf**, 117 (2018), 1291-1303.

[9]- **(ISI)** Mohebbi, R., Izadi, M., Chamkha, Ali J., Heat Source Location and Natural Convection in a C-Shaped Enclosure Saturated by a Nanofluid, **Physics of Fluids**, 29 (2017) 122009.

[10]- (**ISI)** Izadi, M., Mohebbi, R., Karimi, D., Sheremet, M. A., Numerical Simulation of Natural Convection Heat Transfer inside a ⊥ Shaped Cavity Filled by a MWCNT-Fe3O4/Water Hybrid Nanofluids using LBM, **Chemical Engineering & Processing: Process Intensification,** 125 (2018), 56-66.

[11]- (**ISI)** Ma, Y., Mohebbi, R., Rashidi, M. M., Yang, Z., Study of Nanofluid Forced Convection Heat Transfer in a Bent Channel by Means of Lattice Boltzmann Method, **Physics of Fluids,** Vol, 30, Issue 3, (2018) .

[12]- (**ISI)** Izadi, M., Hoghoughi, G., Mohebbi, R., Sheremet, M., Nanoparticle migration and natural convection heat transfer of Cu-water nanofluid inside a porous undulant-wall enclosure using LTNE and two-phase model, **Journal of Molecular Liquids,** 261 (2018), 357-372.

[13]- (**ISI)** Ma, Y., Mohebbi, R., Rashidi, M. M., Yang, Z., Effect of Hot Obstacle Position on Natural Convection Heat Transfer of MWCNTs-Water Nanofluid in U-Shaped Enclosure Using Lattice Boltzmann Method, **International Journal of Numerical Methods for Heat and Fluid Flow,** Vol 29, Issue 1, 2019, 223-250.

[14]- **(ISI)** Ma, Y., Mohebbi, R., Rashidi, M. M., Yang, Z., Numerical Simulation of Flow Over a Square Cylinder with Upstream and Downstream Circular Bar Using Lattice Boltzmann Method, **International Journal of Modern Physics C,** Vol 29, Issue 4, 2018 .

[15]- (**ISI)** Izadi, M., Mohebbi, R., Chamkha, A., Pop, I., Effects of Cavity and Heat Source Aspect Ratios on Natural Convection of a Nanofluid in a C-Shaped Enclosure Using Lattice Boltzmann method, **International Journal of Numerical Methods for Heat and Fluid Flow,** Vol 28, Issue 8, 2018, pp. 1930-1955.

[16]- (**ISI)** Mohebbi, R., Izadi, M., Amiri Delouei, A., Sajjadi, H., Effect of MWCNT-Fe3O4/Water Hybrid Nanofluid on the Thermal Performance of Ribbed Channel with Apart Sections of Heating and Cooling, **Journal of Thermal Analysis and Calorimetry,** Vol. 135(6), 2019, pp. 3029-3042.

[17]- (**ISI)** Ma, Y., Mohebbi, R., Rashidi, M. M., Manca, O., Yang, Z., Numerical Investigation of MHD Effects on Nanofluid Heat Transfer in a Baffled U-Shaped Enclosure using Lattice Boltzmann Method, **Journal of Thermal Analysis and Calorimetry,** Vol 135, Issue 6, 2019, pp. 3197-3213.

[18]- **(ISI)** Asadi Abchouyeh, M., Mohebbi, R., Solaymani Fard, O., Lattice Boltzmann Simulation of Nanofluid Natural Convection Heat Transfer in a Channel with a Sinusoidal Obstacle, **International Journal of Modern Physics C,** Vol 29, No.9, 2018.

[19]- **(ISI)** Ma, Y., Mohebbi, R., Rashidi, M. M., Yang, Z., Simulation of Nanofluid Natural Convection in a U-Shaped Cavity Equipped by a Heating Obstacle: Effect of Cavity's Aspect Ratio, **Journal of the Taiwan Institute of Chemical Engineers,** Vol 93 (2018), 263-276.

[20]- **(ISI)** P. Ranjbar, R. Mohebbi, H. Heidari, Numerical Investigation of Nanofluids Heat Transfer in a Channel Consisting of Rectangular Cavities by Lattice Boltzmann Method, **Int. J. Modern Phys C**, Vol. 29, No. 11 (2018) 1850108 (23 pages).

[21]- (**ISI)** Amiri Delouei, A., Sajjadi, H., Izadi, M., Mohebbi, R., The Simultaneous Effects of Nanoparticles and Ultrasonic Vibration on Inlet Turbulent Flow: An Experimental Study, **Applied Thermal Engineering,** 146 (2019) 268–277.

[22]- (**ISI)** Ma, Y., Mohebbi, R., Rashidi, M. M., Yang, Z., MHD Forced Convection of MWCNT-Fe3O4/water Hybrid Nanofluid in a Partially Heated τ-shaped Channel Using LBM, **Journal of Thermal Analysis and Calorimetry,** Vol. 136 (4), 2019, 1723–1735.

[23]- (**ISI)** Ma, Y., Mohebbi, R., Rashidi, M. M., Yang, Z., Sheremet, M. A., Numerical Study of MHD Nanofluid Natural Convection in a Baffled U-shaped Enclosure, **International Journal of Heat and Mass Transfer,** 130 (2019), 123-134.

[24]- (**ISI)** Matori, A., Mohebbi, R., Hashemi, Z., Ma, Y., Lattice Boltzmann Study of Multi-Walled Carbon Nanotube (MWCNT)-Fe3O4/Water Hybrid Nanofluids Natural Convection Heat

Transfer in a Π Shaped Cavity Equipped by Hot Obstacle, **Journal of Thermal Analysis and Calorimetry,** 136(2019), 2495–2508.

[25]- (**ISI)** Amiri Delouei, A., Sajjadi, H., Mohebbi, R., Izadi, M., Experimental Study on Inlet Turbulent Flow under Ultrasonic Vibration: Pressure Drop and Heat Transfer Enhancement, **Ultrasonics Sonochemistry,** Vol 51, (2019), 151-159.

[26]- (**ISI)** Mohebbi, R., Haghighi Khalilabad, S., Ma, Y., Effect of γ-Al2O3/Water Nanofluid on Natural Convection Heat Transfer of Corrugated ℸ Shaped Cavity: Study the Different Aspect Ratio of Grooves, **Journal of Applied Fluid Mechanics**, Vol. 12, No. 4, 2019, 1151-1160.

[27]- (**ISI)** Izadi, M., Mohebbi, R., Amiri Delouei, A., Sajjadi, H., Natural convection of a Magnetizable hybrid nanofluid inside a porous enclosure subjected to two variable magnetic fields, **International Journal of Mechanical Sciences,** Vol. 151, (2019), 154-169.

[28]- **(ISI)** Mohebbi R., Izadi, M., Nor Azwadi Che Sidik., Najafi, G., Natural Convection Heat Transfer of Nanofluid inside a Cavity Containing Rough Elements Using Lattice Boltzmann Method, **International Journal of Numerical Methods for Heat and Fluid Flow**, Vol. 29(10), (2019), 3659-3684.

[29]- (**ISI)** Sajjadi, H., Amiri Delouei, A., Izadi, M., Mohebbi, R., Investigation of MHD Natural Convection in a Porous Media by Double MRT Lattice Boltzmann Method utilizing MWCNT–Fe3O4/Water Hybrid Nanofluid, **International Journal of Heat and Mass Transfer,** Vol. 132, April 2019, 1087-1104.

[30]- (**ISI)** Ma, Y., Mohebbi, R., Rashidi, M. M., Yang, Z., Koo–Kleinstreuer–Li correlation for simulation of nanofluid natural convection in hollow cavity in existence of magnetic field, **Journal of Thermal Analysis and Calorimetry,** Vol. 137, No. 4 (2019) 1413-1429.

[31]- (**ISI)** Mohebbi, R., Mehryan, S. A. M., Izadi, M., Mahian, O., Natural convection of hybrid nanofluids inside a partitioned porous cavity for application in solar power plants, **Journal of Thermal Analysis and Calorimetry,** Vol. 137, No. 5 (2019) 1719–1733.

[32]- (**ISI)** Alsabery, A. I., Mohebbi, R., Chamkha, A. J., Hashim, I., Effect of local thermal non-equilibrium model on natural convection in a nanofluid-filled wavy-walled porous cavity containing inner solid cylinder, **Chemical Engineering Science,** Vol. 201 (2019) 247–263.

[33]- (**ISI)** Mohebbi, R., Amiri Deloue, A., Jamali, A., Izadi, M., Mohamad, A.A., Pore-scale Simulation of Non-Newtonian Power-Law Fluid Flow and forced convection in Partially Porous Media: Thermal Lattice Boltzmann Method, **Physica A: Statistical Mechanics and its Applications,** Vol. 525 (2019) 642–656.

[34]- (**ISI)** Ma, Y., Mohebbi, R., Rashidi, M. M., Yang, Z., MHD convective heat transfer of Ag-MgO/water hybrid nanofluid in a channel with active heaters and coolers, **International Journal of Heat and Mass Transfer,** Vol. 137 (2019) 714–726.

[35]- **(ISI)** Asadi Abchouyeh, M., Solaymani Fard, O., Mohebbi, R., Sheremet, M. A., Enhancement of heat transfer of nanofluids in the presence of sinusoidal side obstacles between two parallel plates through the lattice Boltzmann method, **International Journal of Mechanical Sciences,** Vol 156, 2019, 159-169.

[36]- (**ISI)** Mohebbi, R., Izadi, M., Sajjadi, H., Amiri Deloue, A., Sheremet, M. A., Examining of nanofluid natural convection heat transfer in a Γ-shaped enclosure including a rectangular hot

obstacle using the lattice Boltzmann method, **Physica A: Statistical Mechanics and its Applications,** Vol. 526 (2019) –.

[37]- (**ISI)** Alsabery, A. I., Mohebbi, R., Chamkha, A. J., Hashim, I., Impacts of magnetic field and non-homogeneous nanofluid model on convective heat transfer and entropy generation in a cavity with heated trapezoidal body, **Journal of Thermal Analysis and Calorimetry,** Published online 26 April 2019.

[38]- (**ISI)** Izadi, M., Mohebbi, R., Sajjadi, H., Amiri Deloue, A., LTNE modeling of Magneto-Ferro natural convection inside a porous enclosure exposed to nonuniform magnetic field, **Physica A: Statistical Mechanics and its Applications,** Vol. 535, (2019) –.

[39]- **(ISI)** Mohebbi, R., lakzayi, H., Rasam, H., Numerical Simulation of Conjugate Heat Transfer in a Square Cavity Consisting the Conducting Partitions Using the Lattice Boltzmann Method, **Physica A: Statistical Mechanics and its Applications**, Vol. , (2019) –.

[40]- (**ISI)** Ma, Y., Mohebbi, R., Rashidi, M. M., Yang, Z., Mixed convection characteristics in a baffled U-shaped lid-driven cavity in the presence of magnetic field**, Journal of Thermal Analysis and Calorimetry,** Vol. 140 , 1967-1984 (2020) .

[41]- (**ISI)** Ma, Y., Mohebbi, R., Rashidi, M. M., Yang, Z., A., Sheremet, M. A., Nanoliquid Thermal Convection in I-shaped Multiple-pipe Heat Exchanger under Magnetic Field Influence, **Physica A: Statistical Mechanics and its Applications,** Vol. (28 Dec, 2019).

[42]- **(ISI)** Asadi Abchouyeh, M., El Ganaoui, M., Mohebbi, R., Zarrabi, M. R., Solaymani Fard, O., Bennacer, R., Heat Transfer Enhanvemment inside Channel by using the Lattice Boltzmann Method, **Thermal Science,** Vol , 2020, - .

[43]- (**ISI)** Ma, Y., Mohebbi, R., Rashidi, M. M., Yang, Z., Fang, Y, Baffle and Geometry Effects on Nanofluid Forced Convection over Forward - and Backward - facing Steps Channel by means of Lattice Boltzmann Method, **Physica A: Statistical Mechanics and its Applications,** Vol. ,2020, .

[44]- **(ISC)** MH Kayhani, R Mohebbi, A Abbasnejad, Numerical and Experimental Investigation of Wind Break Walls' Effect on the Natural Draft Dry Cooling Tower's Performance Under Wind Condition, **AEROSPACE MECHANICS JOURNAL** 4 (414), (2009) 71-82.

[45]- **(ISC)** MH Kayhani, R Mohebbi, Numerical Investigation of Fluid Flow and Heat Transfer on the Porous Media Between Two Parallel Plates Using the Lattice Boltzmann Method, **AEROSPACE MECHANICS JOURNAL** 9 (1), (2013) 63-76.

[46]- **(ISC)** M Nazari, MH Kayhani, R Mohebbi, Numerical Investigation of Heat Transfer of Non-Newtonian Fluid in a Porous Medium, **Journal of Solid and Fluid Mechanics** 3 (1), (2013)105-119.

[47]- **(ISC)** R Mohebbi, M Masodnia, Simulation of Natural Convection Heat Transfer of a Square Cavity Consist of Triangular Roughness Elements, **Journal of Mechanical Engineering**, 84, Vol. 48(3), 2018, 261-270.

[48]- **(ISC)** R Mohebbi, M Masodnia, The Effect of Different Corrugated on the rate of Natural Convection Heat Transfer inside a Square Cavity, **Journal of Mechanical Engineering**, 85, Vol. 48(4), 2019, 271-279.

[49]- **(ISC)** A Gouran, R Mohebbi, A Amiri Delouei, Effects of Multiple Injection on the Emission

reduction and Efficiency Increase of Diesel Engines, **Journal of Mechanical Engineering**, Issue 83, Vol 48, Summer 2018, 279-287.

[50]- **(ISC) In Press**, R Mohebbi, Natural Convection Fluid Flow and Heat Transfer a Square Cavity with a Heated Triangular Obstacle Using Finite Element Method, **Journal of Modeling in Engineering**, Vol. 16, No. 55, 2019, 30-45.

[51]- **(ISC)** A. Amiri Delouei, R Mohebbi, A.H. Kordavani, Investigation of Temperature-dependent Viscosity Effect on Thermal Non-Newtonian Fluid Flow over a Square Cylinder by Lattice Boltzmann Method**, Journal of Mechanical Engineering,** Issue 86, Vol 49, Spring 2019, 31-40.

[52]- **(ISC)** R Mohebbi, S. Haghighi, M. Shamsi, Numerical Study of Hot Block on Rate of Natural Convection Heat Transfer inside a ⅂ Shape Cavity, **Journal of Mechanical Engineering**, Issue 87, Vol 49, Summer 2019, 305-313.

[53]- **(English Conference)** Simulation of Natural Gas EOS (Equation of State) Investigation Using PENG-ROBINSON EOS, International Conference on Emerging Technologies and Applications in Engineering, Technology and Sciences- ICETAETS 2008- Rajkot, India- 13-14 January 2008

[54]- **(English Conference)** Effect of cross Wind on Natural Draft Dry Cooling Towers by Using Wind Break Walls, The Tenth Arab International Solar Energy Conference & Exhibition, Kuwait City, 10-13 November 2008

[55]- (**Conference**) Methods For Increasing Methan In Waste, Computer and Mechanical Engineering Seminar, Islamic Azad University of Shahrood.2007.

[56]- (**English Conference**) Experimental Investigation of Wind Break Walls on the Natural Draft Dry Cooling Towers Performance, International Conference on Emerging Research and Advances in Mechanical Engineering, ERA 2009- Velammal Engineering College, Chennai – 600 066, Tamil Nadu, India- 19-21 March 2009.

[57]- (**Conference**) Experimantal Investigation of Wind Break Walls On Cooling Towers, 17 International Conference on Mechanical Engineering. May 19-21 2009 , Tehran University.

[58]- (**Conference**) Cooling Towers and Wind Effect Decreasin, 1st National Conference On Thermal Power Plants. May 2009, Tehran University .

[59]- (**Conference**) Experimental Investigation of Roughness Elements on Decreasing Effect of Wind on Performance of Dry Natural Cooling Towers, 18 International Conference on Mechanical Engineering. May 11-13 2010 , Sharif University.

[60]- (**Conference**) Effects of Roughness Elements on external pressure distribution of Cooling Towers, The Second National Conference of thermal power industry, Octobr 2010.

[61]- (**Conference**) Numerical and Experimental Study of the effect of roughness elements on the rate of heat transfer from an Isothermal smooth plate, 19 International Conference on Mechanical Engineering. May 10-12 2010 , Birjand University.

[62]- (**Conference**) An Empirical Investigation of the effect of wind on high performance cooling towers dry by upper windbreaks, 19 International Conference on Mechanical Engineering. May 10-12 2010 , Birjand University.

[63]- (**Conference**) Finite Element Analysis of single-layer and double-layer corrugated plates endurance, First International Conference on Acoustics and Vibration, Amirkabir University of

Technology, 21 Dec 2011.

[64]- (**Conference**) Analyze the dynamic interaction of cross-network train system pier, 20 International Conference on Mechanical Engineering. May 15-17 2011 , Shiraz University.

[65]- (**Conference**) Numerical Investigation of the fluid flow between two parallel plate consist of locally porous media with Lattice Boltzmann Method, 14th Annual Fluid Dynamics Conference, May 1-3 2011.

[66]- (**Conference**) Experimental Investigation Effect of Roughness Elements on the Experimental Distribution Pressure of Natural Cooling Towers, 14th Annual Fluid Dynamics Conference, May 1-3 2012.

[67]- (**Conference**) Study of heat transfer and fluid flow through porous media inside a channel by different arrangements using Lattice Boltzmann method, International Conference on Mechanical Engineering and Advanced Technology, Isfahan, 3 oct 2012.

[68]- (**English Conference**) A Computation of Flow and Heat Transfer in Channel Partially Filled with Square Obstacles Using Lattice Boltzmann Method, International Conference on Mechanical, Automobile and Robotics Engineering (ICMAR'2012) , 2012 ,Penang ,Malaysia, Feb. 11-12

[69]- (**Conference**) R. Mohebbi, M. Izadi, M. Deimi Dashtbayaz, Numerical investigation of heat transfer channels with barriers mounted on the wall using Lattice Boltzmann method, The first conference of development-oriented civil engineering, architecture, electrical and mechanical Iran, 18 Dec 2014.

[70]- (**Conference**) R. Mohebbi, A. Alebooyeh, Numerical investigation of heat transfer channels using a by local contraction by Lattice Boltzmann Method, The first conference of development-oriented civil engineering, architecture, electrical and mechanical Iran, 18 Dec 2014.

[71]- (**Conference**) R. Mohebbi, Experimental study of the effects height of adjacent dry cooling towers to each other's performance under cross-winds, The first conference of development-oriented civil engineering, architecture, electrical and mechanical Iran, 18 Dec 2014.

[72]- (**Conference**) R. Mohebbi, H. Heidari, Numerical investigation of heat transfer of a channel by open cavity using Lattice Boltzmann Method, 23 International Conference on Mechanical Engineering. May 12-14 2015 , Amirkabir University.

[73]- (**Conference**) A. Alebooyeh, R. Mohebbi, Improved mechanical properties of mesoporous silica nanoparticles and morphological cloth reinforced polypropylene and hydroxyapatite, Second International Conference and the National Conference of ICT in science and engineering, 12 March 2016.

[74]- (**Conference**) R. Mohebbi, H. Heidari, Lattice Boltzmann method in the study of fluid flow and heat transfer of channel contains two open cavity, Second International Conference and the National Conference of ICT in science and engineering, 12 March 2016.

[75]- (**Conference**) R. Mohebbi, A. Alebooyeh, Free convection in the L-shaped cavity in the presence of nanofluids using Lattice Boltzmann Method, First International Conference on Advances research in mechanics, mechatronics and biomechanics, Amirkabir University, 11 June 2016.

[76]- (**Conference**) R Mohebbi, M Masodnia, Investigation of free convection heat transfer in a square cavity with hot triangular obstacle using the finite element method, First International

Conference on Advances research in mechanics, mechatronics and biomechanics, Amirkabir University, 11 June 2016.

[77]- (**Conference**) R. Mohebbi, H. Heidari, Numerical Investigation of the effect of preventing hot obstacle on the rate of heat transfer of L-shaped cavity with Lattice Boltzmann Method, 25 International Conference on Mechanical Engineering. May 2-4 2017 , Tarbitay Modares University.

[78]- (**Conference**) H. Heidari, R. Mohebbi, P. Ranjbar, Heat Transfer Simulation in a Channel with Open Cavity by Lattice Boltzmann Method, 17th Annual Fluid Dynamics Conference, Shahrood University, 27-29 Aug 2017.

Research and Accomplished Projects:

- Experimental study of the effect of wind on the performance of cooling towers adjacent
- Experimenal Investigation Of Wind Break Walls on Natural Draft Dry Cooling Towers Performance

  Advisor: Dr. Mohammad. Hasan Kayhani, Dr.Mohammad Mohsen Shahmardan
- Operator of miniature power plant in Shahrood University of Technology and preparing the manual. (2005)
- Operator of miniature wind tunnel lab in Shahrood University of Technology and preparing the manual. (2008-2010)

Work Experiences:

- Working as an apprentice in "Vasegh Forge" company (2004)
- Working in Shahrood Cement Company (2006-2007)

Languages:

Farsi: mother tongue**, English**: fluent, **Arabic:** fairly reading and listening

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Honors:

- Distinguished researcher of the School of Engineering, Damghan University
- Second ranked graduated student among BSc, MSc and Phd students

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Extracurricular activities:

- Playing Football, Volleyball, Ping Pong and Badminton
  - Computer activities

Served as reviewer for internationl journals:

- International Journal of Heat and Mass Transfer
- Energy, The International Journal
- Chemical and Biochemical Engineering

- journal Applied Physics A
- Thermal Science
- Journal of Modeling in Engineering (IR)
- Journal of Solid and Fluid Mechanics(IR)
- Mechanical Engineering Technology Journal(IR)
- Journal of Mechanical Engineering(IR)
