

Published papers

1. **A. Karami**, F. Veysi & F. Aliee. A novel approach based on neural network to model the free convection within a differentially heated cavity partitioned by interior curved slats. **International Journal of Thermal Sciences** 189 (2023) 08281. <https://doi.org/10.1016/j.ijthermalsci.2023.108281>
2. **A. Karami**, E. Rezaei, M. Shahhosseni & M Aghakhani. Optimization of heat transfer in an air cooler equipped with classic twisted tape inserts using imperialist competitive algorithm. **Experimental Thermal and Fluid Science** 38 (2012) 195-200. <https://doi.org/10.1016/j.exptthermflusci.2011.12.007>
3. E. Rezaei, **A. Karami**, T. Yousefi & S. Mahmoudinezhad. Modeling the free convection heat transfer in a partitioned cavity using ANFIS. **International Communications in Heat and Mass Transfer** 39 (2012) 470-475. <https://doi.org/10.1016/j.icheatmasstransfer.2011.12.006>
4. S. Nazari, **A. Karami**, M. Bahiraei, M. Olfati, M. Goodarzi & H. Khorasanizadeh. A novel technique based on artificial intelligence for modeling the required temperature of a solar bread cooker equipped with concentrator through experimental data. **Food and Bioproducts Processing** 123 (2020) 437-449. <https://doi.org/10.1016/j.fbp.2020.08.001>
5. **A. Karami**, G.H. Roshani, A. Khazaei, E. Nazemi & M. Fallahi. Investigation of different sources in order to optimize the nuclear metering system of gas–oil–water annular flows. **Neural Computing & Applications** 32 (2020) 3619–3631. <https://doi.org/10.1007/s00521-018-3673-0>
6. **A. Karami**, E. Rezaei, M. Shahhosseni & M. Aghakhani. Fuzzy logic to predict the heat transfer in an air cooler equipped with different tube inserts. **International Journal of Thermal Sciences**. 53 (2012) 141-147. <https://doi.org/10.1016/j.ijthermalsci.2011.10.016>
7. **A. Karami** & F. Veysi. Thermal Behavior due to Buoyancy-driven Convection between Two Vertical Surfaces in an Enclosed Cavity Partitioned by an array of Perforated Blades. **Experimental Heat Transfer** 36 (2023). <https://doi.org/10.1080/08916152.2021.1991512>
8. **A. Karami** & F. Veysi. A novel metaheuristic combinatorial algorithm to optimize the natural convection across a vertical enclosure divided by perforated flat horizontal louvers inside. **European Physical Journal Plus** 136 (2021). <https://doi.org/10.1140/epjp/s13360-021-01623-5>
9. M. Abolhasani, **A. Karami** & M. Rahimi. Numerical Modeling and Optimization of the Enhancement of the Cooling Rate in Concentric Tubes under Ultrasound Field. **Numerical Heat Transfer, Part A: Applications** 67 (2015) 1282-1309. <https://doi.org/10.1080/10407782.2014.955371>

10. **A. Karami**, T. Yousefi, I. Harsini, E. Maleki & S. Mahmoudinezhad. Neuro-Fuzzy Modeling of the Free Convection Heat Transfer from a Wavy Surface. **Heat Transfer Engineering** 36 (2015) 847-855. <https://doi.org/10.1080/01457632.2015.963444>
11. M. Aghakhani, M.R. Ghaderi, **A. Karami** & A. A. Derakhshan. Combined effect of TiO₂ nanoparticles and input welding parameters on the weld bead penetration in submerged arc welding process using fuzzy logic. **International Journal of Advanced Manufacturing Technology** 70 (2014) 63–72. <https://doi.org/10.1007/s00170-013-5180-x>
12. **A. Karami**, G.H. Roshani, A. Salehizadeh & E. Nazemi. The Fuzzy Logic Application in Volume Fractions Prediction of the Annular Three-Phase Flows. **Journal of Nondestructive Evaluation** 36, 35 (2017). <https://doi.org/10.1007/s10921-017-0415-7>
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14. G.H. Roshani, **A. Karami**, & E. Nazemi. An intelligent integrated approach of Jaya optimization algorithm and neuro-fuzzy network to model the stratified three-phase flow of gas–oil–water. **Computational and Applied Mathematics** 38 (2019) 5. <https://doi.org/10.1007/s40314-019-0772-1>
15. G.H. Roshani, **A. Karami**, A. Salehizadeh & E. Nazemi. The capability of radial basis function to forecast the volume fractions of the annular three-phase flow of gas-oil-water. **Applied Radiation and Isotopes** 129 (2017) 156-162. <https://doi.org/10.1016/j.apradiso.2017.08.027>
16. **A. Karami**, GH. Roshani, E. Nazemi & S. Roshani. Enhancing the performance of a dual-energy gamma ray based three-phase flow meter with the help of grey wolf optimization algorithm. **Flow Measurement and Instrumentation** 64 (2018) 164-172. <https://doi.org/10.1016/j.flowmeasinst.2018.10.015>
17. G.H. Roshani, **A. Karami**, A. Khazaei, A. Olfateh, E. Nazemi & M. Omid. Optimization of radioactive sources to achieve the highest precision in three-phase flow meters using Jaya algorithm. **Applied Radiation and Isotopes** 139 (2018) 256-265. <https://doi.org/10.1016/j.apradiso.2018.05.015>