Curriculum Vitae

Saeed Ehsan Awan

Tenured Associate Professor

Department of Electrical and Computer Engineering (ECE), COMSATS University Islamabad (CUI)-Attock, Pakistan.
Pakistan.
Mobile/WhatsApp ID: +92 334 4445132
WeChat ID: DrSaeed_Physicsist
Email: saeed.ehsan@cuiatk.edu.pk
ORCID: 0000-0002-4557-9533
ORCID, LinkedIn, Google Scholar

Short Biography

Saeed Ehsan Awan is an experienced researcher and academician, with eleven years plus of teaching and cutting-edge research experience, joined the COMSATS University Islamabad as an Assistant Professor in August 2012, currently working as a Tenured Associate Professor at COMSATS University Islamabad, Attock Campus, Pakistan since Feb 2019. During his professional career, he has been a part of renowned research projects and taught a range of modules at both undergraduate and postgraduate levels. Over 50+ articles in top-tier journals and conferences are on his credit and supervised more than 30 postgraduate students. Currently five graduate students and two PhD students are working with him. He won many prestigious research fellowships and pursued his research at top ranking institutes. He has served as reviewer for a number of prestigious journals.

Research Interests

Artificial Intelligence, Machine Learning Algorithms, Computational Fluid Mechanics, Computational Physics, .

Education and Training

PhD in Physics Nov. 2006 - May. 2012

Department of Physics and Applied Mathematics, Pakistan Institute of Engineering and Applied Sciences (PIEAS) Islamabad , Pakistan.

- Fully Funded Scholarship by the Higher Education Commission (HEC), Pakistan.
- Dissertation: "Kinetic Simulation, Sensitivity Analysis of Fission Product Activity and Source Term Evaluation for Different Accident Scenarios in Nuclear Reactors."
- Advisor: Prof. Dr. Nasir M Mirza (EX-Rector PIEAS).

Master of Philosophy in Computational Solid State Physics 2003 - 2005

Centre for Solid State Physics, University of the Punjab Lahore, Pakistan.

- Thesis: "Quantum Defects in Ternary and Quaternary Chalcopyrite Compounds."
- Advisor: Prof. Dr. Nazma Ikram.

Master of Science in Physics 2000 - 2002

University of Agriculture Faisalabad, Pakistan.

Professional Experience

Tenured Associate Professor 5 Feb. 2019 - Present
Department of Electrical Computer Engineering, COMSATS University Islamabad, Attock Campus, Pakistan.

Assistant Professor Aug. 2012 - 4 Feb. 2019
Department of Electrical Computer Engineering, COMSATS University Islamabad, Attock Campus, Pakistan.

Lecturer/Research Associate Aug. 2010 - Apr. 2012
Pakistan Institute of Engineering and Applied Sciences (PIEAS) Islamabad, Pakistan.

Lecturer/Research Associate Aug. 2005 - Aug. 2006
Centre for Solid State Physics, University of the Punjab Lahore, Pakistan.

RESEARCH STATISTICS

ORCID:0000-0002-4557-9533
Total Number of Publications : 50+
Cumulative Impact Factor : 210+
Cumulative Google Citation: 1450+
h-index: 24
i10-index: 42
Full list of publications: https://scholar.google.com.pk/citations?user=S-8Zv50AAAAJhl

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Selected Journal Publications

1. ***S. E. Awan***, M. Awais, M. A. Z. Raja and S. H. R. Bukhari. "Numerical treatment for double diffusion phenomenon with generalized heat flux effects in 3D nanomaterial flow over bi-directional stretched wall". *Numerical Heat Transfer, Part A: Applications*, 2024. (Impact Factor: 2.0)
2. S. Khan, ***S. E. Awan***, Y. Muhammad, I. Jadoon, and M. A. Z. Raja. "Novel polynomial Abet data augmentation algorithm with GRU paradigm for nuclear power prediction". *Annals of Nuclear Energy*, vol. 201, pp. 110441, 2024. (Impact Factor: 1.9)
3. A. Imran, M. A. Z. Raja, ***S. E. Awan.*** and M. Shoaib. "Analysis of radiative heat transfer on electro-osmotic magneto nanofluid flow through ciliary propulsion". *ZAMM-Journal of Applied Mathematics and Mechanics/Zeitschrift für Angewandte Mathematik und Mechanik*, p.e202300689, 2024. (Impact Factor: 2.3)
4. N. Parveen, M. Awais, and ***S. E. Awan.*** "Generalized Thermal Properties of Hybrid Nanoliquid Composed of Aluminum Oxide (Al 2 O 3) and Silver (Ag) Nanoparticles with Water (H 2 O) as Base Liquid". *ZAMM-Journal of Applied Mathematics and Mechanics/Zeitschrift für Angewandte Mathematik und Mechanik*, p.e202300194, 2024. (Impact Factor: 2.3) 2024.
5. ***S. E. Awan***, M. Awais, R. Shamim and M. A. Z. Raja. "Novel design of intelligent Bayesian networks to study the impact of magnetic field and joule heating in hybrid nanomaterial flow with applications in medications for blood circulation". *Tribology International*, vol. 189, pp. 108914, 2023. (Impact Factor: 6.2)
6. ***S. E. Awan***, R. Shamim, M. Awais, S. Irum, M. Shoaib and M. A. Z. Raja. "Convective flow dynamics with suspended carbon nanotubes in the presence of magnetic dipole: Intelligent solution predicted Bayesian regularization networks". *Tribology International*, vol. 187, pp. 108685, 2023. (Impact Factor: 6.2)
7. ***S. E. Awan***, M. Awais, M. A. Z. Raja and C. M. Shu. "Bayesian regularization knack-based intelligent networks for thermo-physical analysis of 3D MHD nanofluidic flow model over an exponential stretching surface". *The European Physical Journal Plus*, vol. 138, Issue 1, pp. 1-33, 2023. (Impact Factor: 3.758)

8. M. A. Wahid, S. H. R. Bukhari, M. Maqsood, F. Adil, M. I. Khan and ***S. E. Awan***. "Parametric estimation scheme for aircraft fuel consumption using machine learning". *Neural Computing and Applications*,vol. 35, pp. 24925-24946, 2023. (Impact Factor: 6.0)
9. ***S. E. Awan***, M. Shoaib, I. Naz, M. Awais and M. A. Z. Raja. "Solution predictive Bayesian networks knacks for entropy optimized second-order slip velocity free convective nanofluid flow along Darcy-Forchheimer porous medium". *Waves in Random and Complex Media*, pp. 1-42, 2023. (Impact Factor: 4.051).
10. ***S. E. Awan***, F. Ali, M. Awais, M. Shoaib and M. A. Z. Raja. "Intelligent Bayesian regularization-based solution predictive procedure for hybrid nanoparticles of AA7072-AA7075 oxide movement across a porous medium". *ZAMM-Journal of Applied Mathematics and Mechanics/Zeitschrift für Angewandte Mathematik und Mechanik*, vol. 103, Issue 10, p.e202300043, 2023. (Impact Factor: 2.3)
11. M. A. Wahid, S. H. R. Bukhari, A. Daud, ***S. E. Awan***, and M. A. Z. Raja."COVICT: an IoT based architecture for COVID-19 detection and contact tracing". *Journal of Ambient Intelligence and Humanized Computing*, vol. 14, pp. 7381-7398, 2023. (Impact Factor: 2.807)
12. ***S. E. Awan***, M. A. Z. Raja, M. Awais and S. H. R. Bukhari. "Backpropagated intelligent computing networks for 3D nanofluid rheology with generalized heat flux". *Waves in Random and Complex Media*, pp. 1-31, 2022. (Impact Factor: 4.051)
13. M. A. Z. Raja, ***S. E. Awan***, M. Shoaib, and M. Awais."Backpropagated intelligent networks for the entropy generation and joule heating in hydromagnetic nanomaterial rheology over surface with variable thickness". *Arabian Journal for Science and Engineering*, vol. 47, Issue 6, pp. 7753-7777, 2022. (Impact Factor: 3.662)
14. Y. Muhammad, N. Khan, ***S. E. Awan***, M. A. Z. Raja, N. I. Chaudhary, A. K. Kiani, F. Ullah and C. M. Shu."Fractional memetic computing paradigm for reactive power management involving wind-load chaos and uncertainties". *Chaos, Solitons Fractals*, vol. 161, pp. 112285, 2022. (Impact Factor: 9.922)
15. M. Awais, H. Rehman, M. A. Z. Raja, ***S. E. Awan***, A. Ali and M. Shoaib. "Hall effect on MHD Jeffrey fluid flow with Cattaneo–Christov heat flux model: an application of stochastic neural computing". *Complex Intelligent Systems*, vol.8, pp. 5177-5201, 2022. (Impact Factor: 6.700)
16. ***S. E. Awan***, M. A. Z. Raja, M. Awais and C. M. Shu. "Intelligent Bayesian regularization networks for bio-convective nanofluid flow model involving gyro-tactic organisms with viscous dissipation, stratification and heat immersion". *Engineering Applications of Computational Fluid Mechanics*, vol. 15, Issue 1, pp. 1508-1530, 2021. (Impact Factor: 8.391)
17. M. A. Z. Raja, M. Sabati, N. Parveen, M. Awais, ***S. E. Awan***, N. I. Chaudhary, M. Shoaib, and H. Alquhayz."Integrated intelligent computing application for effectiveness of Au nanoparticles coated over MWCNTs with velocity slip in curved channel peristaltic flow".

Scientific Reports, vol. 11, Issue 1, pp. 22550, 2021. (Impact Factor: 5.133)

18. Y. Muhammad, M. A. Z. Raja, M. A. A. Shah, ***S. E. Awan***, F. Ullah, N. I. Chaudhary, K. M. Cheema, A. H. Milyani and C. M. Shu."Optimal coordination of directional overcurrent relays using hybrid fractional computing with gravitational search strategy". *Energy Reports*, vol. 7, pp. 7504-7519, 2021. (Impact Factor: 6.870)
19. W. U.Khan, A. Imran, M. A. Z. Raja, M. Shoaib, ***S. E. Awan***, K. Kausar, and Y. He."A novel mathematical modeling with solution for movement of fluid through ciliary caused metachronal waves in a channel". *Scientific Reports*, vol. 11, Issue 1, pp. 20601, 2021. (Impact Factor: 5.133)
20. N. Parveen, M. Awais, ***S. E. Awan***, S. A. Shah, A. Yuan, M. Nawaz, R. Akhtar and M. Y. Malik."Thermophysical properties of chemotactic microorganisms in bio-convective peristaltic rheology of nano-liquid with slippage, Joule heating and viscous dissipation". *Case Studies in Thermal Engineering*, vol. 27, pp. 101285, 2021. (Impact Factor: 4.724)
21. N. Parveen, M. Awais, ***S. E. Awan***, W. U. Khan, Y. He and M. Y. Malik."Entropy Generation Analysis and Radiated Heat Transfer in MHD (Al2O3-Cu/Water) Hybrid Nanofluid Flow". *Micromachines*, vol. 12, Issue 8, pp. 887, 2021. (Impact Factor: 2.891)
22. M. Awais, M. Bibi, M. A. Z. Raja, ***S. E. Awan***, and M. Y. Malik. "Intelligent numerical computing paradigm for heat transfer effects in a Bodewadt flow". *Surfaces and Interfaces*, vol. 26, pp. 101321, 2022. (Impact Factor: 4.837)
23. M. Shoaib, M. A. Z. Raja, M. A. R. Khan, I. Farhat and ***S. E. Awan***."Neuro-Computing Networks for Entropy Generation under the Influence of MHD and Thermal Radiation". *Surfaces and Interfaces*, vol. 25, pp. 101243, 2021. (Impact Factor: 4.837)
24. I. H. Qureshi, M. Awais, ***S. E. Awan***, M. N. Abrar, M. A. Z. Raja, S. O. Alharbi and I. Khan."Influence of radially magnetic field properties in a peristaltic flow with internal heat generation: Numerical treatment". *Case Studies in Thermal Engineering*, vol. 65, pp. 101019, 2021. (Impact Factor: 4.724)
25. M. Awais, ***S. E. Awan***, M. A. Z. Raja and M. Shoaib."Effects of Gyro-Tactic Organisms in Bio-convective Nano-material with Heat Immersion, Stratification, and Viscous Dissipation". *Arabian Journal for Science and Engineering*, vol. 46, Issue 6, pp. 5907-5920. 2021. (Impact Factor: 2.334)
26. W. U.Khan, M. Awais, N. Parveen, A. Ali, ***S. E. Awan***, M. Y. Malik and Y. He."Analytical Assessment of (Al2O3–Ag/H2O) Hybrid Nanofluid Influenced by Induced Magnetic Field for Second Law Analysis with Mixed Convection, Viscous Dissipation and Heat Generation". *Coatings*, vol. 11, Issue 5, pp. 498, 2021. (Impact Factor: 2.881)
27. ***S. E. Awan***, M. Awais, M. A. Z. Raja, N. Parveen, H. M. Ali, W. U. Khan and Y. He. "Numerical treatment for dynamics of second law analysis and magnetic induction effects on ciliary induced peristaltic transport of hybrid nanomaterial". *Frontiers in Physics*, vol. 9, pp. 631903, 2021. (Impact Factor: 3.560)

28. M. Awais, ***S. E. Awan***, M. A. Z. Raja, M. Nawaz, W. U.Khan, M. Y. Malik and Y. He."Heat Transfer in Nanomaterial Suspension (CuO and Al2O3) Using KKL Model". *Coatings*, vol. 11, Issue 4, pp. 417, 2021. (Impact Factor: 2.881)
29. R. Akhtar, M. Awais, M. A. Z. Raja, M. N. Abrar, S. A. Shah, A. Yuan, ***S. E. Awan***, M. Shoaib, L. Xu, A. Shaheen and B. Aslam."Analytical Treatment for the Dynamics of Second Law Analysis of Jeffery Nanofluid with Convective Heat and Mass Conditions". *Journal of Nanoelectronics and Optoelectronics*, vol. 16, Issue 1, pp. 89-96, 2021. (Impact Factor: 1.069)
30. I. Ahmad, T. N. Cheema, M. A. Z. Raja, ***S. E. Awan***, N. B. Alias, S. Iqbal and M. Shoaib."A novel application of Lobatto IIIA solver for numerical treatment of mixed convection nanofluidic model". *Scientific Reports*, vol. 11, Issue 1, pp. 4452, 2021. (Impact Factor: 5.133)
31. M. Awais, ***S. E. Awan***, M. A. Z. Raja, N. Parveen, W. U.Khan, M. Y. Malik and Y. He."Effects of Variable Transport Properties on Heat and Mass Transfer in MHD Bioconvective Nanofluid Rheology with Gyrotactic Microorganisms: Numerical Approach". *Coatings*, vol. 11, Issue 2, pp. 231, 2021. (Impact Factor: 2.881)
32. S. Bashrat, ***S. E. Awan***, R. Akhtar, A. Hussain, S. Iqbal, S. A. Shah, and A. Yuhan. "A Duty Cycle Controlled ZVS Buck Converter With Voltage Doubler Type Auxiliary Circuit". *Frontiers in Energy Research*, vol. 9, pp. 550115, 2021. (Impact Factor: 4.008)
33. ***S. E. Awan***, M. A. Z. Raja, F. Gul, Z. A. Khan, A. Mehmood, and M. Shoaib. "Numerical Computing Paradigm for Investigation of Micropolar Nanofluid Flow Between Parallel Plates System with Impact of Electrical MHD and Hall Current". *Arabian Journal for Science and Engineering*, vol. 46, Issue 1, pp. 645-662, 2021. (Impact Factor: 2.334)
34. M. Awais, M. A. Z. Raja, ***S. E. Awan***, M. Shoaib and H. M. Ali."Heat and mass transfer phenomenon for the dynamics of Casson fluid through porous medium over shrinking wall subject to Lorentz force and heat source/sink". *Alexandria Engineering Journal*, vol.60, Issue 1, pp. 1355-1363, 2021. (Impact Factor: 3.732)
35. M. Awais, ***S. E. Awan***, S. Irum, M. Shoaib, H. Ali and M. A. Z. Raja. "Rheology of hydro-magnetic polymeric material with heat generation/absorption and chemical reaction". *Journal of the National Science Foundation of Sri Lanka*, vol.48, Issue 4, pp. 397-407, 2020. (Impact Factor: 0.515)
36. ***S. E. Awan***, M. A. Z. Raja, A. Mehmood, S. A. Niazi and S. Siddiqa. "Numerical Treatments to Analyze the Nonlinear Radiative Heat Transfer in MHD Nanofluid Flow with Solar Energy". *Arabian Journal for Science and Engineering*, vol. 45, Issue 6, pp. 4975-4994, 2020. (Impact Factor: 2.334)
37. ***S. E. Awan***, M. Awais, A. Qayyum, S. U. Rehman, A. Khan, H. Ali and M. A. Z. Raja. "Numerical computing paradigms for the dynamics of squeezing rheology of third grade fluid". *Thermal Science*, vol. 24, Issue 6B, pp. 4173-4182, 2020. (Impact Factor: 1.625)
38. M. Awais, ***S. E. Awan***, Aqsa, S. U. Rehman and M. A. Z. Raja. "Numerical and analytical approach for Sakiadis rheology

of generalized polymeric material with magnetic field and heat source/sink". *Thermal Science*, vol. 24, Issue 2B, pp. 1183-1194, 2020. (Impact Factor: 1.625)

39. M. Awais, Aqsa, ***S. E. Awan,*** S. U. Rehman and M. A. Z. Raja. "Hydro-Magnetic Falkner-Skan Fluid Rheology With Heat Transfer Properties". *Thermal Science*, vol. 24, Issue 1A, pp. 339-346, 2020. (Impact Factor: 1.625)
40. S. U. Rehman, ***S. E. Awan,*** F. R. Mumtaz and M. A. Z. Raja. "A novel application of breadth first algorithm for achieving collision free memory mapping". *Plos One*, vol. 14, Issue 8, pp. 0219490, 2019. (Impact Factor: 3.240)
41. A. Hussain, R. Akhtar, B. Ali, ***S. E. Awan*** and S. Iqbal. "A Novel Bidirectional DC–DC Converter with Low Stress and Low Magnitude Ripples for Stand-Alone Photovoltaic Power Systems". *Energies*, vol. 12, Issue 15, pp. 2884, 2019. (Impact Factor: 3.004)
42. R. Akhtar, Y. Shengua, Z. Zhiyu, Z. A. Khan, I. Memon, S. U. Rehman and ***S. E. Awan.*** "Content distribution and protocol design issue for mobile social networks: a survey". *EURASIP Journal on Wireless Communications and Networking*, vol. 1, pp. 128, 2019. (Impact Factor: 2.455)
43. A. Mehmood, K. Afsar, A. Zameer, ***S. E. Awan*** and M. A. Z. Raja. "Integrated Intelligent Computing Paradigm for the Dynamics of Micropolar Fluid Flow with Heat Transfer in a Permeable Walled Channel". *Applied Soft Computing*, vol. 79, pp. 139-162, 2019. (Impact Factor: 6.725)
44. ***S. E. Awan***, M. Awais, S. U. Rehman, S. A. Niazi and M. A. Z. Raja. "Dynamical analysis for nanofluid slip rheology with thermal radiation, heat generation/absorption and convective wall properties". *AIP Advances*, vol. 8, pp. 075122, 2018. (Impact Factor: 1.579)
45. ***S. E. Awan***, Z. A. Khan, M. Awais, S. U. Rehman, and M. A. Z. Raja. "Numerical treatment for hydro-magnetic unsteady channel flow of nanofluid with heat transfer". *Results in Physics*, vol. 9, pp. 1543-1554, 2018. (Impact Factor: 4.476)
46. S. Siddiqa, S. B. Naqvi, N. Begum, ***S. E. Awan*** and M. A. Hussain. "Thermal radiation therapy of biomagnetic fluid flow in the presence of localized magnetic field". *International Journal of Thermal Sciences*, vol. 132, pp. 457-462, 2018. (Impact Factor: 3.744)
47. A. Batool, M. A. Faridi, Q. Mahmood, B. U. Haq, A. Laref and ***S. E. Awan*** and M. A. Hussain. "The pressure-induced indirect to direct bandgap transition and thermoelectric response in SrTiO3: An ab-initio study". *Journal of Physics and Chemistry of Solids*, vol. 123, pp. 70-75, 2018. (Impact Factor: 3.995)
48. M. Awais, T. Hayat, N. Muqaddass, A. Ali and ***S. E. Awan.*** "Nanoparticles and nonlinear thermal radiation properties in the rheology of polymeric material". *Results in Physics*, vol. 8, pp. 1038-1045, 2018. (Impact Factor: 4.476)
49. M. Awais, ***S. E. Awan***, K. Iqbal, Z. A. Khan and M. A. Z. Raja. "Hydromagnetic mixed convective flow over a wall with variable thickness and Cattaneo-Christov heat flux model: OHAM analysis". *Results in Physics*, vol. 8, pp. 621-627, 2018. (Impact Factor: 4.476)

50. M. Awais, Aqsa, M. Y. Malik and ***S. E. Awan***. "Generalized magnetic effects in a Sakiadis flow of polymeric nano-liquids: Analytic and numerical solutions". *Journal of Molecular Liquids*, vol. 241, pp. 570-576, 2017. (Impact Factor: 6.165)
51. M. Awais, ***S. E. Awan***, M . I. Syam, M. A. Z. Raja and A .M. Wazwaz. "Unsteady Rheology of MHD Newtonian Material with Soret and Dufours Effects". *International Journal of Applied and Computational Mathematics*, vol. 3, pp. 1299-1311, 2017.
52. J. A. Khan, M. A. Z. Raja, M. I. Syam, S. A. K. Tanoli and ***S. E. Awan***. "Design and Application of Nature Inspired Computing approach for Non-linear Stiff Oscillatory Problems". *Neural Computing and Applications*, vol. 26, Issue 7, pp. 1763-1780, 2015. (Impact Factor: 5.606)
53. A. Ullah, M. Ishfaq, C. W. Ahn, A. Ullah, ***S. E. Awan*** and I. W. Kim. "Relaxor behavior and piezoelectric properties of Bi(Mg 0.5Na 0.5 Tio3 lead free ceramics". *Ceramics International*, vol. 41, Issue 9A, pp. 10557-10564, 2015. (Impact Factor: 4.527)
54. ***S. E. Awan***, N. M. Mirza, and S. M. Mirza. "Kinetic Study of Fission Product Activity Released inside Containment Under Loss of Coolant Transients in a Typical MTR System". *Applied Radiation and Isotopes*, vol.70, Issue 12, pp. 2711-2719, 2012. (Impact Factor: 1.513)
55. ***S. E. Awan***, S. M. Mirza, and N. M. Mirza. "Sensitivity analysis of fission product activity in primary coolant of typical PWRs". *Progress in Nuclear Energy*, vol.53, Issue 3, pp. 245-249, 2011. (Impact Factor: 2.256)
56. S. Ullah, ***S. E. Awan***, N. M. Mirza, and S. M. Mirza."Source term evaluation for the upgraded LEU Pakistan Research Reactor-1 under severe accidents". *Nuclear Engineering and Design*, vol. 240, Issue 11, pp. 3740-3750, 2010. (Impact Factor: 1.869)

Modules taught and Reviewed

- Applied Physics for Engineers
- Engineering Mechanics and Thermodynamics
- Electricity and Magnetism
- Linear Algebra
- Differential Equations
- Numerical Computation
- Power Generation
- Engineering Mathematics
- Power Generation and Plant Operation
- Advance Engineering Mathematics
- Hydel Power Generation
- Research Methodology .

Selected Awards and Honours

- Exceptional Faculty Research Productivity Award from CUI, 2017-2023.
- Exceptional Faculty Award based on student feedback by COMSATS University Islamanad, Pakistan, 2020-2022
- Selected as HEC-Approved PhD Supervisor from HEC, Pakistan, 2013-present
- Exceptional Faculty in Teaching, Research and Administrator Award from CUI, 2015-2022.
- Awarded as Deputy Head of Department CUI Attock, 2015-2020.

	❊ **Awarded a Fully funded Scholarship for the PhD studies by Higher Education Commission of Pakistan , 2006-2012.**
Leadership Experience	❊ **Deputy Head of Department ECE, CUI Attock , 2015-2020.** ❊ **Member Board of Studies (BOS), COMSATS University Islamabad, Pakistan, from Spring 2022 to date.** ❊ **Incharge Graduate Programme, Department of ECE, COMSATS University Islamabad, Attock, Pakistan, from Fall 2020 to date.** ❊ **Convener Graduate and Research Ethics Committee, COMSATS University Islamabad, Pakistan, from Fall 2020 to date.** ❊ **Convener Departmental Examination Committee, COMSATS University Islamabad, Pakistan, from Fall 2013 to date.** ❊ **Convener Campus Makeup Request Review Committee, COMSATS University Islamabad, Pakistan, from Spring 2022 to date.** ❊ **Member Campus Unfair Mean Committee, COMSATS University Islamabad, Pakistan, from Fall 2020 to Fall 2021.** ❊ **Convener Departmental Course allocation Committee, COMSATS University Islamabad, Pakistan, from Fall 2014 to Fall 2022.**
Professional Voluntary Contributions	❊ **Reviewer of a number of top-ranked journals including, but not limited to: International Communications in Heat and Mass Transfer, Progress in Nuclear Energy, Annals of Nuclear Energy, International Journal of Heat and Mass Trnsfer, Scientific Reports, Neural Computing and Applications, Applied Soft Computing, Waves in Random and Complex Media, Journal of the Brazilian Society of Mechanical Sciences and Engineering, Case Studies in Thermal Engineering, Alexandria Engineering Journal and Results in Physics.** ❊ **Member of Technical Program Committee and Reviewer of the following flagship conferences: INMIC 2017-2019, FIT 2017-2021.**