



## Javad Farzi

Associate Professor

College: Faculty of Basic Sciences

### Education

| Degree | Graduated in | Major               | University                 |
|--------|--------------|---------------------|----------------------------|
| MSc    |              | Applied Mathematics | University of Tabriz       |
| Ph.D   |              | Applied Mathematics | Tarbiat Modares University |
| BSc    |              | Applied Mathematics | University of Tabriz       |

### Employment Information

| Faculty/Department        | Position/Rank       | Employment Type | Cooperation Type | Grade |
|---------------------------|---------------------|-----------------|------------------|-------|
| Department of Mathematics | Associate professor | Tenured         | Full Time        | 22    |

### Papers in Journals

1. M Babaei, J Farzi, Derivation of weighting rules for developing a class of A-stable numerical integration scheme:  $\square I-(2+3)P$  method, Journal of Difference Equations and Applications, 2023.
2. SM Yeganeh, J Farzi, Maximum principle and positivity-preserving high order spectral volume schemes with parametrized flux limiters for solving hyperbolic conservation laws, Journal of Computational and Applied Mathematics, 2022.
3. SM Yeganeh, J Farzi, A class of non-oscillatory direct-space-time schemes for hyperbolic conservation laws, Applied Mathematics and Computation, 2021.
4. A Moradi, J Farzi, A Abdi, Order conditions for second derivative general linear methods, Journal of Computational and Applied Mathematics, 2021.
5. F Khodadosti, J Farzi, MM Khalsaraei, Monotonicity-Preserving Lax–Wendroff Scheme for Solving Scalar Hyperbolic Conservation Laws, Bulletin of the Iranian Mathematical Society, 2021.
6. F Khodadosti, J Farzi, MM Khalsaraei, Monotonicity-preserving splitting schemes for solving balance laws, Iranian Journal of Numerical Analysis and Optimization, 2021.
7. A Moradi, A Abdi, J Farzi, Strong stability preserving second derivative general linear methods with Runge–Kutta stability, Journal of Scientific Computing, 2020.

8. A Moradi, A Abdi, J Farzi, Strong stability preserving second derivative diagonally implicit multistage integration methods, *Applied Numerical Mathematics*, 2020.
9. A Moradi, J Farzi, A Abdi, Strong stability preserving second derivative general linear methods, *Journal of Scientific Computing*, 2019.
10. J Farzi, F Khodadosti, A total variation diminishing high resolution scheme for nonlinear conservation laws, *Computational Methods for Differential Equations*, 2018.
11. MY Ongun, D Arslan, J Farzi, Numerical solutions of fractional order autocatalytic chemical reaction model, *Süleyman Demirel Üniversitesi Fen Bilimleri Enstitüsü Dergisi*, 2017.
12. J Farzi, Global error estimation of linear multistep methods through the Runge-Kutta methods, *Iranian Journal of Numerical Analysis and Optimization*, 2016.
13. J Farzi, Generalized extrapolation methods for solving nonlinear Fredholm integral equations, *Mathematical Communications*, 2014.
14. J Farzi, SM Hosseini, High order immersed interface method for acoustic wave equation with discontinuous coefficients, *Iranian Journal of Numerical Analysis and Optimization*, 2014.
15. J Farzi, A High Order Approximation of the Two Dimensional Acoustic Wave Equation with Discontinuous Coefficients, *Computational Methods for Differential Equations*, 2013.