List of my publications (T. Mitsui)

Feb 2024

1. Encyclopedic Dictionary of Mathematics traces numerical analysis in Japan, *Tokyo Intelligencer*, 10th International Congress on Industrial and Appllied Mathematics, August, 2023, Spriner, 22 - 27.

2. Integration of the stochastic underdamped harmonic oscillator by the θ-method, *Mathematics and Computers in Simulation*, **199** (2022), 217 - 230, published online, doi: https://doi.org/10.1016/j.matcom.2022.03.012 (with Angel Tocino and Yoshio Komori)

3. Delay-dependent stability of numerical methods for delay differential systems of neutral type, *BIT,* **57** (2017), 731 - 752, published online, DOI: 10.1007/s10543-017-0650-4 (with G.-Da Hu)

4. Performance of "look-ahead" linear multistep methods, *Proceedings of International Conference of Numerical Analysis and Applied Mathematics* (ICNAAM 2015), ed. by Th. Simos and Ch. Tsitouras, AIP Conference Proceedings 1738 (2016), http://dx.doi.org/10.1063/1.4951868

5. Asymptotic mean-square stability of explicit Runge-Kutta Maruyama methods for stochastic delay differential equations, *Journal of Computational and Applied Mathematics,* **296** (2016), 427 - 442 (with Qian Guo and Mingming Qiu)

6. Education/training with industry participation, in '*Educational Interfaces between Mathematics and Industry — Reports on an ICMI-ICIAM Study* ed. by A. Damlamian, J. F. Rodrigues and R. Sträßer, Springer, 2013, pp.93 – 107 (with G. FitzSimons)

7. Convergence and stability of the split-step-Milstein method for stochastic delay Hopfield neural networks, *Abstract and Applied Analysis,* **2013** (2013), Article ID 169214, 12 pages (with Qian Guo and Wenwen Xie)

8. Bounds of the matrix eigenvalues and its exponential by Lyapunov equation, *Kybernetika,* **48** (2012), 865-878 (with G.-Da Hu)

9. Two-step family of "look-ahead" linear multistep methods for ODEs, *Science and Engineering Review of Doshisha University,* **52** (2011), 181-188. (with D. G. Yakubu)

10. "Look-ahead" linear multistep methods for ordinary differential equations — Introduction of the method —, *Science and Engineering Review of Doshisha University,* **51** (2010), 181-190.

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17. Stability property of generalized linear multistep methods for delay integro-differential equations, *Trans. JSIAM,* **18** (2008), 199-216 (in Japanese, with K. Mitsuda, Ch. Suzuki and T. Koto)

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