Symmetry and Approximation Methods II

Message from the Guest Editor

Contributions are welcome on any subject related to Padé approximants with applications to realistic problems in addition to on any subject related to renormalization group applications in physics, finance, and geophysics.

Tentative contents (need more work!):

1. Padé and two-point Padé—interpolation, extrapolation, and bounds;
2. Euler-transformed, modified Padé approximants and corrected Padé approximants;
3. Self-similarity and renormalization group as the source of roots, factors, and superexponential approximants;
4. Nonperturbative conditions for accelerating convergence and optimization with minimal differences and sensitivity conditions;
5. Factor and root approximants, examples of factors and roots, and interpolation as well as critical point calculations;
6. Direct methods for critical index calculations: factors, D-Log Padé, D-Log roots, combined Log-Padé approximants, and test examples;
7. Critical index as a control parameter and calculation with roots;
8. Accelerated convergence of factors and D-Log Padé approximants;
9. Additive and D-Log additive approximants for interpolation;

Deadline for manuscript submissions: 30 November 2022

Special Issue

Message from the Editor-in-Chief

Symmetry is ultimately the most important concept in natural sciences. It is not surprising then that very basic and fundamental research achievements are related to symmetry. For instance, the Nobel Prize in Physics 1979 (Glashow, Lee, and Weinberg) was awarded for the discovery of the principles of the unification of weak and electromagnetic interactions. In this Special Issue, we aim to bring together the latest developments in the field of symmetry.
For instance, the Nobel Prize in Physics 1954 (Sawatzky, Salam, Weinberg) was received for a unified symmetry description of electromagnetic and weak interactions, while the Nobel Prize in Physics 2008 (Nambu, Kobayashi, Maskawa) was received for the discovery of the mechanism of spontaneous breaking of symmetry, including CP symmetry. Our journal is named Symmetry and it manifests its fundamental role in nature.

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