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A semi-analytical approach to solve systems of integro-differential equations

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Highlights

- A new method to solve systems of IDEs under mixed boundary conditions is presented.
- This algorithm can solve different kinds of integro-differential equation systems.
- Convergence analysis for the method is proved and accuracy of the method is high.
- Accuracy of results is truly fine even if the number of approximating terms is small.
- CPU time and computational time of our method is less than the other methods.

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