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Document Title : *A Fast Alogorithm To Solve Helmholtz Equation In Complex Plane*
خوارزمية سريعة لحل معادلة هلمولتز في المستوى المركب

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Abstract : An algorithm is provided for the fast and accurate computation of the solution of Helmholtz equation in the unit disk. The algorithm is based on some recursive relation in Fourier space, and Fast Fourier Transform (FFT) . The thesis is structured as follows : In chapter 1, we find the solution of helmholtz equation in the unit disk. In chapter 2, we find a fast algorithm to solve Helmholtz equation. In chapter 3, we present the numerical results

Supervisor : د.داوود مشاط

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