

# Qutaibeh D. Katatbeh

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**Education:** Ph.D. in Mathematics 2003, Concordia University, Canada

**Research Interest:** Applied Mathematics, Spectral Theory, Oscillation Theory, Schrodinger operators, Indefinite Sturm-Liouville problems, Fractional Calculus, Modelling and Image processing

## Selected Recent Publications:

- Dimitris M. Christodoulou, James Graham-Eagle and Qutaibeh Katatbeh A program for predicting the intervals of oscillations in the solutions of ordinary second-order linear homogenous differential equations *Advances in Difference Equations*, 2016.( Springer) Indexed in ISI Thomson Reuters Science Citation Index Expanded Impact Factor 0.64.
- Qutaibeh Katatbeh, Dimitris M. Christodoulou, James Graham-Eagle ,The intervals of oscillations in the solutions of the radial Schrödinger differential equation, *Advances in Difference Equations*, 2016.( Springer) Indexed in ISI Thomson Reuters Science Citation Index Expanded Impact Factor 0.64
- .Dimitris M. Christodoulou, James Graham-Eagle and Qutaibeh Katatbeh, The intervals of oscillations in the solutions of the Legendre differential equations, *Advances in Difference Equations*, 2016.( Springer) Indexed in ISI Thomson Reuters Science Citation Index Expanded Impact Factor 0.64
- Q. D. Katatbeh, Eigenvalues of Schrödinger operators with definite and indefinite weights, *Applied Mathematics and Computations*, 247 (2014), 125-140 (Elsevier) Indexed in ISI Thomson Reuters Science Citation Index Expanded Impact Factor 1.551
- Q.D. Katatbeh, P.J. Torres, Existence of periodic and solitary waves for a Nonlinear Schrödinger Equation with Nonlocal Integral Term of convolution type, *Communications in Nonlinear Science and Numerical Simulation* 18 (2013) 1136-1142. (Elsevier) Indexed in ISI Thomson Reuters Science Citation Index Expanded Impact Factor 2.87