



FACULTY OF INFORMATION TECHNOLOGY
MASTER PROGRAM OF COMPUTING

Dynamics of Nonlinear Difference Equation

$$x_{n+1} = \frac{\beta x_n + \gamma x_{n-k}}{A + Bx_n + Cx_{n-k}}$$

By:

Amer JA'FAR

Supervisor:

Prof. Mohammad SALEH

M.Sc. Thesis

January 18, 2012



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“This Thesis was submitted in partial fulfillment of the requirements for the Master’s Degree in Computing from the Faculty of Graduate Studies at Birzeit University, Palestine.”

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