ÇANKAYA UNIVERSITY
FACULTY OF ARTS AND SCIENCES
DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCES

SEMINAR

Discrete fractional calculus with some applications

SPEAKER   **: Guo-Cheng Wu**

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PLACE   **: Çankaya University (Central Campus), R-213**

Abstract

This work introduces the tool of discrete fractional calculus (DFC) in recent applications. It is used to introduce memory effects into discrete maps. General Chaotic behaviors are shown. Image encryption of fractional order is illustrated as one of the possible applications. Furthermore, chaos synchronization is designed according to stability conditions. Finally, a Riesz-Caputo fractional difference is given by use of both left and right Caputo-like fractional differences. Modelling of the diffusion on discrete domains is shown.

All interested are cordially invited.

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