Apr 8th, 11:00 AM - 12:00 PM

Permanents of Tridiagonal and Hessenberg Matrices Representing Recursive Number and Polynomial Sequences

Ximing Dong
Illinois Wesleyan University

Tian-Xiao He, Faculty Advisor
Illinois Wesleyan University

Oral Presentation O8.1

PERMANENTS OF TRIDIAGONAL AND HESSENBERG MATRICES REPRESENTING RECURSIVE NUMBER AND POLYNOMIAL SEQUENCES

Ximing Dong and Tian-Xiao He*
Mathematics Department, Illinois Wesleyan University

Here presented a generalized approach to construct tridiagonal matrices and Hessenberg matrices representing recursive number sequences and recursive polynomial sequences so that their permanents equal the values of the recursive number sequences and the expressions of the recursive polynomial sequences.