

# MATHEMATICAL REPORTS

VOL. 15(65) • No. 1 • 2013

---

## CONTENTS

---

Serpil HALICI	On some inequalities and Hankel matrices involving Pell, Pell-Lucas numbers . . . . .	1
Sandra TEODORESCU and Raluca VERNICU	On composite Pareto models . . . . .	11
Natalia GAȘIȚOI	The Levi problem in the blow-up along a linear space . . . . .	31
Aurelian CERNEA	On the solution set of a fractional differential inclusion . . . . .	37
S. HUSSAIN and A. SHAH	Solution of generalized Drinfeld-Sokolov equations by homotopy perturbation and variational iteration methods . . . . .	49
Marinela MARINESCU and Mircea NICA	Functionals and gradient stochastic flows with jumps associated with nonlinear SPDEs . . . . .	59
Flavia Corina MITROI and Cătălin Irinel SPIRIDON	Refinements of hermite-Hadamard inequality on simplices . . . . .	69
Manuela GHICA	A game theoretic model for a reinsurance market. Some theoretical results . . . . .	79
Constantin P. NICULESCU and Ionel ROVENȚA	An extension of Chebyshev's algebraic inequality . . . . .	91
Mihai N. PASCU	A probabilistic model for cash flow . . . . .	97

---

