

INDEX OF VOLUME 44

<i>Bosma, W., E. Cator, A. Járαι and Gy. Kiss</i> : Primality proofs with elliptic curves: Heuristics and analysis	3
<i>Székelyhidi, L.</i> : Spectral synthesis on special varieties	29
<i>Balásházy, I., G. Kudela and B.G. Madas</i> : Deposition and clearance of inhaled radon progenies in the bronchial airways	37
<i>Kátai, I. and B.M. Phong</i> : Some relations among arithmetical functions	49
<i>Khanh, B.M.M.</i> : On the equation $f(n^2 + Dm^2) = f(n)^2 + Df(m)^2$	59
<i>Vamshee Krishna, D., B. Venkateswarlu and T. RamReddy</i> : Coefficient inequality for transforms of reciprocal of bounded turning functions	69
<i>De Koninck, J.-M. and I. Kátai</i> : On the uniform distribution of certain sequences involving the Euler totient function and the sum of divisors function	79
<i>Thuyet, L.V., L.T.M. Thuy and T.C. Quynh</i> : On quasi nil-injective modules	93
<i>Phong, B.M.</i> : The functional equation $f(p + n^4 + m^4) = g(p) + h(n^4) + h(m^4)$	109
<i>Argyros, I.K. and S. George</i> : Ball convergence comparison between two sixth order Newton–Jarratt composition method	119
<i>Anastassiou, G.A. and I.K. Argyros</i> : A convergence analysis for a certain family of extended iterative methods: Part I. Theory	133
<i>Anastassiou, G.A. and I.K. Argyros</i> : A convergence analysis for a certain family of extended iterative methods: Part II. Applications to fractional calculus	143
<i>De Koninck, J.-M. and V. Ouellet</i> : On the n -th element of a set of positive integers	153

<i>Nguyen Cong Hao and Truong Thi My Le</i> : Data dependencies in fuzzy object oriented databases model based on hedge algebra	165
<i>Langlois, B.</i> : Une application arithmétique du Théorème du Quotient de Hadamard	183
<i>Kiss, Gy.</i> : Primality proofs with elliptic curves: Experimental data	197
<i>Tran The Vinh</i> : Congruential generator of complex pseudo-random of numbers	211

UNSOLVED PROBLEMS SECTION

<i>Bölcsföldi, J., Gy. Birkás and M. Ferenczi</i> : Vollprimzahlenmenge. Eine neue spezielle Teilmengen der Vollprimzahlenmenge	221
<i>De Koninck, J.-M. and I. Kátai</i> : About an unsolved problem involving normal numbers	227
<i>Kátai, I. and B.M. Phong</i> : Some unsolved problems on arithmetical functions	233

ANNALES UNIVERSITATIS SCIENTIARUM
BUDAPESTINENSIS
DE ROLANDO EÖTVÖS NOMINATAE
SECTIO COMPUTATORICA

Publication. Yearly 2 issues are scheduled to appear, which are available from the Department of Computer Algebra of the Eötvös Loránd University, Budapest, XI. Pázmány Péter sét. 1/C.

Editorial policy. This journal publishes research and, in special cases, survey papers treating problems from a broad field of applied mathematics and computer science written with mathematical precision, giving priorities to articles connected with the activities and interests within the departments of applied mathematics and computer science of the Eötvös University. The areas of main interest are: classical numerical analysis, modern theories of algorithms of approximation, their optimization both in deterministic and stochastic cases, summation of series, modelling and simulation, mathematical system theory, estimations of computational complexity, theory of automata, languages and system programming. Reviews of new books, both from and outside Hungary, will be also published.

Instructions for authors. Manuscripts should be submitted in two exemplars or in electronic form (the TEX and PDF files) - written in English, German or French and prepared in form as the ones already appeared - to the editor-in-chief

IMRE KÁTAI
Department of Computer Algebra
Eötvös Loránd University
H-1518 Budapest, P.O.B. 32.
Hungary
katoi@compalg.inf.elte.hu

Additional information can be obtained on

<http://ac.inf.elte.hu/>