

INDEX

*Pál L.G.*: A constructive method for uniform approximation by means of Lagrange-interpolation in the space of continuously differentiable functions ..... 3

*Rafat Riad.*: Two-dimensional block-pulse functions series solution of a system of first-order differential equations ..... 9

*Doha E.H.*: On the coefficients of differentiated expansions of double and triple Legendre polynomials ..... 23

*Argyros I.K.*: Stirling's method in generalized Banach spaces ..... 37

*Fawzy Th. and Ahmed M.*: Approximate solution of the initial value problem  $y''' = f(x, y)$  using deficient spline polynomial ..... 49

*Gouda S. and Amer M.*: A theorem on the  $h$ -range of  $B$ -sequences ..... 65

*Borsó Zs.*: Recent results of ranking methods based on fuzzy preference relations ..... 71

*Haroten H.A.*: Some condition of  $\rho$ -stability and the non-oscillation of the linear parabolic problem ..... 81

*Gregorics T.*: Which of graphsearch versions is the best? ..... 93

*Sövegjártó A.*: A spline method for approximate solution of the initial value problem  $y^{(n)}(x) = f(x, y(x), y'(x), \dots, y^{(n-1)}(x))$  ..... 109

*Márkus T. and Manh Thanh Le.*: An efficient semi-naive algorithm for Datalog ..... 125

*Bojeldain A.A.*: Existence and uniqueness theorems for a class of nonlinear Volterra integro-differential equations ..... 143

*Kőhegyi J. and Rahman N.A.A.*: Numerical solution of two-point boundary value problems with lacunary interpolation spline functions ..... 157

*Horváth Z.*: On higher order unconditionally nonnegativity conserving methods ..... 167

<i>Simon P.L.:</i> Globally attracting domains in two-dimensional reversible chemical dynamical systems .....	179
<i>Mihálykó Cs.:</i> On an implicit numerical method for the grinding equa- tion .....	201
<i>Achs Á. and Kiss A.:</i> Fixpoint query in fuzzy Datalog programs .....	223
<i>Jenei S.:</i> Continuity in approximate reasoning .....	233

**ANNALES UNIVERSITATIS SCIENTIARUM  
BUDAPESTINENSIS  
DE ROLANDO EÖTVÖS NOMINATAE  
SECTIO COMPUTATORICA**

**Publication.** Yearly 1 issue (about 250 pages) is scheduled to appear, which is available from the Department of Computer Algebra of the Eötvös Loránd University, Budapest, Múzeum krt. 6-8.

**Editorial policy.** This journal publishes research and, in special cases, survey papers treating problems from a broad field of applied mathematics written with mathematical precision, giving priorities to articles connected with the activities and interests within the departments of applied mathematics 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 on magnetic discs (using text preparation programs as TEX, LATEX) - 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-1088 Budapest, VIII. Múzeum krt. 6-8.  
Hungary

ISSN 0138-9491

Technikai szerkesztő:

**DR. LAKATOS LÁSZLÓ**

**A kiadásért felelős: Eötvös Loránd Tudományegyetem rektora**

**Készült az ELTE Sokszorosítóüzemében**

**300 példányban**

**Felelős kiadó: Dr. Kátai Imre**

**Vezető: Arató Tamás**

**ELTE 96046**