Tentative program for **LATIN'92** (compiled on 05NOV91)

1 Invited lectures

- Erich Kaltofen *A decade of research on polynomial factorization*
- Vaughan Pratt *Arithmetic + Logic + Geometry = Concurrent Computation*
- Gene Myers *Approximate Matching of Network Expressions with Spacers*
- Arjen K. Lenstra *Massively Parallel Computing and Factoring*
- A. de Luca and S. Varricchio *Some regularity conditions based on well quasi-orders*
- Manuel Blum *Universal Statistical Tests*
- Jean-Paul Allouche *The ring of k-regular sequences*
- Michel Cosnard *Title to be announced*
- Kosaburo Hashiguchi *Title to be announced*
- Jean-Eric Pin *Title to be announced*
- Dan Sleator *Title to be announced*

2 Contributed papers

- Felipe Cucker (Univ. Politècnica de Catalunya) and Francesc Rosselló (Univ. de les Illes Balears) *On the complexity of some problems for the Blum, Shub & Smale model*
- Danièle Beauquier (Inst. Blaise Pascal), Michel Latteux (Univ. de Lille) and Karine Slowinski (Univ. de Lille) *A decidability result about convex polyominoes*
- David A.Mix Barrington and Howard Straubing (Boston College) *Complex polynomials and circuit lower bounds for modular counting*
- Anne Brüggemann-Klein (Univ. Freiburg) *Regular expressions into finite automata*
- Ulrich Hertrampf (Univ. Würzburg) *Locally definable acceptance types - The three-valued case*
- F.Bossut and B.Warin (Univ. of Lille Flandres Artois) *Automata and pattern matching in planar directed acyclic graphs*
- X.Zhou, S.Nakano, H.Suzuki and T.Nishizeki (Tohoku Univ.) *An efficient algorithm for edge-coloring series-parallel multigraphs*
- M.Bern (Univ. of Singapore), H.Edelsbrunner (Univ. of Illinois), D.Eppstein (Univ. of California), S.Mitchell (Cornell Univ.) and T.S.Tan (Univ. of Illinois) *Edge-insertion for optimal triangulations*
- José D.P.Rolim (Univ. de Genève) *On the density and core of the complexity classes*
- Oscar Garrido (Lund Univ.), Andrzej Lingas (Lund Univ.), Stefan Jaominek (Warsaw Univ.) and Wojciech Rytter (Warsaw Univ.) *A simple randomized parellel algorithm for maximal f-Matchings*
- Véronique Bruyere (Univ. de Mons-Hainaut) *Automata and codes with bounded deciphering delay*
- Esther Jennings (Univ. of Lund) and Lenka Motyčková (Brno Inst. of Tech.) *A distributed algorithm for finding all maximal cliques in a network graph*

- A.G.Ferreira (École N.S. de Lion) and S.W.Song (Univ. de São Paulo) *Achieving optimality for gate matrix layout and PLA folding: a Graph theoretic approach*

- W.Fernandez de la Vega (Univ. de Paris XI), W.Th.Paschos (Univ de Paris I) and R.Saad (Univ. de Paris XI) *Average case analysis of a greedy algorithm for the minimum hitting set problem*

- Jaime Gutierrez and Tomas Recio (Univ. de Cantabria) *Rational function decomposition and Grobner bases in the parameterization of plane curves*

- Andreas Weber (J.W. Goethe Univ.) *Decomposing a k-valued transducer into k unambigous ones*

- Oscar Porto (Pontificia Univ. Católica do Rio de Janeiro) *Even induced cycles in a planar graphs*

- S.Bettayeb (Louisiana State Univ.), B.Cong (Univ. of Texas), M.Girou (Univ. of Texas) and I.H.Sudborough (Univ. of Texas) *Simulating permutation networks on hypercubes*

- Alistair Sinclair (Univ. of Edinburgh) *Improved bounds for mixing rates of Markov chains and multicommodity flow*

- Alair Pereira do Lago (Univ. de São Paulo) *On the burnside semigroups* $x^n = x^n + m$

- Nami Kobayashi (Univ. de São Paulo) *Properties of recognizable M-subsets of a free monoid*

- Mark Giesbrecht (Univ. of Toronto) *Factoring in Skew-polynomial rings*

- William I.Gasarch and Katia S.Guimarães (Univ. of Maryland) *On the number of components of a recursive graph*

- Joachim Hollman (Royal Inst. of Tech. Stockholm) *On the computation of the Hilbert series*

- Christiane Frougny (Univ. Paris VIII and Inst. Blaise Pascal) *How to write integers in non-integer basis*

- Paola Alimonti (Univ. di Roma La Sapienza) , Esteban Feuerstein (Univ. di Roma La Sapienza and Escuela Superior Latinoamericana de Informática, Argentina) and Umberto Nanni (Univ. di L'Aquila) *Linear time algorithms for liveness and boundedness in conflict-free Petri nets*

- Denis Therién (McGill Univ.) *Circuits constructed with MODq gates cannot comput AND in sublinear size*

- Jacques Sakarovitch (Inst. Blaise Pascal) *The "last" decision problem for rational trace languages*

- Joseph Gil (Univ. of British Columbia) and Yossi Matias (Tel Aviv Univ.) *Leaders election without a conflict resolution rule - Fast and efficient randomized simulations among CRCW PRAMs*

- Svante Carlsson (Inst. för Systemteknik, Luleå) and Jingsen Chen (Lund Univ.) *Parallel complexity of heaps and min-max heaps*

- Rolf Niedermeier and Peter Rossmanith (Tech. Univ. München) *Unambiguous simulations of auxiliary pushdown automata and circuits*

- Eric Goles and Marcos A.Kiwi (Univ. de Chile) *Games on line-graphs and sand-piles*