

## Invited Speakers

Bruno Buchberger; "Groebner"  
Bruno Buchberger; "Algorithmic Algorithm"  
Gregory Chaitin; "Irreducible Complexity in Pure Mathematics"  
Gregory Chaitin; "How Real are Real Numbers?"  
Jarkko Kari; "Snake Tiling Problems"  
Heinz Langer; "Krein Space Linearizations of Holomorphic Operator Functions"  
Markus Rosenkranz; "New Applications of Symbolic Computation"  
Henk de Snoo; "Form Sums of Non-negative Relations"

## Speakers

Jarmo Mäkelä; "Ultimate Limit on Information"  
Antti Valmari; "A Modern Mathematical Theory of Co-operating State Machines"

## Sessions:

### Algorithmic Information Theory I

1. Markus Mannila, Mirko Zadavec, Merja Wanne, Borut Zalik; "An Optimal Heuristic for Strip-based 2D Dynamic Nearest Point Problem"
2. Timo Lilja; "The Cost of Balancing in Top-down (a,b) Trees"
3. Johanna Lehtonen; "The Size of an Infinite Language"
4. J.Töyli, M.Wanne, M.Linna; "An Algorithm for Schema Construction"

### Algorithmic Information Theory II

1. Marko Moisio, Marko Rinta-aho, Keijo Väänänen; "New Deterministic Algorithm for Constructing Normal Bases in Finite Fields"
2. Kari Peisa; "3D Transformations and Interpolations Based on Quaternions"
3. G.Arumugam, V.Lakshmi Praba and S.Radhakrishnan; "Algorithm for MAC Using Chaos Function"
4. V.D.Sharma

### Operator and Spectral Theory III

1. Liepa Bikulciene, Romas Marcinkevicius, Zenonas Navickas; "Algorithm of Operator Method for Solving Differential Equations"
2. FH Szafraniec; "A Matrix Algorithm Towards Subnormality of Unbounded Operators"
3. H. Winkler; "Spectral Gaps and One-dimensional Perturbations"
4. Adrian Sandovici; "Ascent, Descent, Nullity and Defect of Linear Relations in Linear Spaces"

### Operator and Spectral Theory IV

1. Christiane Tretter; "A Krein Space Approach to Klein-Gordon Equation"
2. V.A. Derkach; "Boundary Relations and Generalized Resolvents of Symmetric Operators"
3. Jussi Behrndt and Carsten Trunk; "On Generalized Resolvents of Symmetric Operators of Defect One with Finitely Many Negative Squares"
4. Annemarie Luger; "Generalized Zeros and Poles: On the Underlying Spectral Structure"

### Operator and Spectral Theory V

1. Michael A. Dritschel; "Interpolation in Semigroupoid Algebras"
2. Mark Malamud; "Borg-type Results for Matrix-valued Schrödinger Operators"
3. Yury Arlinskii; "Sectoral Matrices and Block-matrices"
4. Marek Ptak; "Each Finite Dimensional Reflexive Subspace is Hyperreflexive"