



E. Zima



Computer Algebra Research Group

of Wilfrid Laurier University

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Faculty of Science



I. Kotsireas

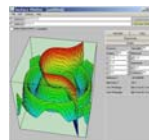
Research

<http://www.cargo.wlu.ca>

- Gröbner bases, Polynomial systems with symmetries
- Implicitization and parameterization of algebraic curves and surfaces
- Enumerating regular mixed-Cell configurations
- Hadamard, weighing matrices, Combinatorial designs
- Accelerated evaluation of rapidly convergent hypergeometric series
- Symbolic summation, Integral representation
- Chains of recurrences: from optimized compilers to FPGA

Computing

- New weighing matrices

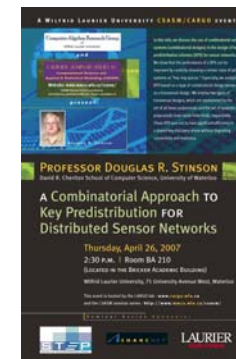


- Chains of recurrences powered plotter

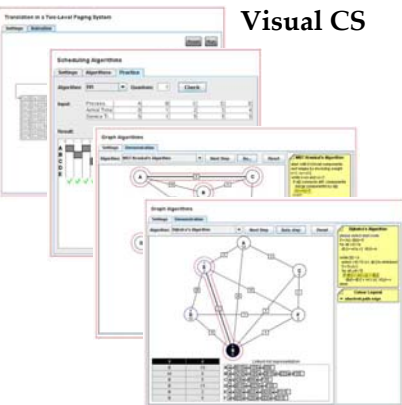


- Accelerated FP-units evaluating expressions at one clock cycle

Seminar series

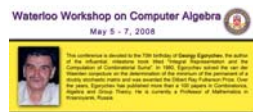


Visual CS



Conferences

- Record computation of $\zeta(3)$



Students

- Marko Agatanovich
- Dan Butcher
- Jason Cousineau
- Harris Evangelaras
- Brad Freer
- Olav Jordan
- Alexei Karpenko
- Derek Knapp
- Lefteris Lappas
- Edmond Lau
- Chris Odorjan
- Gil Pinheiro
- Dimitra Rentas
- Dimitris Simos
- Kyrylo Stepanchuk
- Ian Sinclair
- Richard Voino
- Paul Walrath

Collaborators/Visitors

- S. Abramov
- H. Cheng
- R. M. Corless
- G. Egorychev
- I. Z. Emiris
- J. Gerhard
- K. Gatermann
- M. W. Giesbrecht
- K. Karamanos
- C. Koukouvinos
- G. J. Reid
- M. P. Rogantin
- J. Seberry
- A. Storjohann
- S. M. Watt
- D. Zeilberger
- P. Zimmermann

Sponsors

