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PROFESSIONAL EXPERIENCE

9/80-present Professor (1983-present), Associate Professor (1980-1983)
Computer Science Department, Worcester Polytechnic Institute, Worcester, MA

9/94-6/95 Visiting Professor, Département d'informatique, Université de
Marne-la-Vallée, Noisy-le-Grand, France

5/86-12/86 Visiting Professor, Département de Mathématiques, Ecole
Polytechnique Fédérale de Lausanne, Switzerland

6/83-8/83 Visiting Professor, Department of Computers and Automation,
University of Chongqing, Chongqing, Szechuan, People's Republic of China

9/79-9/80 Visiting Associate Professor, Computer Science Department,
Concordia University, Montreal, Canada

9/76-9/79 Associate Professor, Computer Science Department, University of
Tennessee, Knoxville, TN

6/70-9/76 Associate Professor (1975-1976) Assistant Professor (1970-1975)
Département d'Informatique, Université de Montréal, Montréal, Canada

6/68-6/70 Public Health Officer, National Institutes of Health, Bethesda, MD

EDUCATION

9/65-6/70 Ph.D., Computers and Information Sciences, 1970
M.S., Computers and Information Sciences, 1967
University of Pennsylvania, Philadelphia, PA

9/61-6/65 B.S., Electrical Engineering, 1965
Carnegie Institute of Technology, Pittsburgh, PA

PUBLICATIONS

- (with A. Gyárfás, G.N. Sárközy and A. Sebő), "Ramsey-type results for Gallai colorings", to appear in *Journal of Graph Theory*.
- (with G. Heineman and G. Pollice), "Algorithms in a Nutshell", O'Reilly (2008).
- (with G.N. Sárközy) "Distributing vertices along a Hamiltonian cycle in Dirac graphs", *Discrete Mathematics* 308:23 (2008) pp 5317-5898.
- (with Z. Füredi, A. Gyárfás and G.N. Sárközy) "Inequalities for the first-fit chromatic number", *Journal of Graph Theory* 59:1 (2008) pp 75-88.
- (with G.N. Sárközy) "On the anti-Ramsey problem of Burr, Erdős, Graham, and T. Sós ", *Journal of Graph Theory* 52:2 (2006) pp 147-156.
- (with G.N. Sárközy) "On a Turán-type hypergraph problem of Brown, Erdős and T. Sós, *Discrete Mathematics* 297:1-3 (2005) pp 190-195.
- (with G.N. Sárközy) "An extension of the Ruzsa- Szemerédi Theorem", *Combinatorica* 25:1 (2005) pp. 77-84.
- (with D. J. Dougherty) "The Complexity of the Certification of Properties of Stable Marriage", *Information Processing Letters* 92:6(2004) pp 275-277.
- (with G.N. Sárközy) "On bipartite generalized Ramsey Theory", *Ars Combinatoria* 68(2003), pp. 57-64.
- (with G.N. Sárközy) "An application of the Regularity Lemma in generalized Ramsey Theory", *Journal of Graph Theory* 44 (2003) pp. 39-49.
- (with G.N. Sárközy and E. Szemerédi) "On the number of Hamiltonian cycles in Dirac Graphs", *Discrete Mathematics*, 265/1-3 pp. 237 – 250 (2003). Also appeared as *Editors' Choice* in special volume [online](#) .
- (with G.N. Sárközy) "On Edge Colorings with at Least q Colors in Every Subset of p Vertices", *Electronic Journal of Combinatorics* R9, Volume 8(1) (2001).
- (with G.N. Sárközy) "Vertex Partitions by Connected k -regular Graphs", *Journal of Combinatorial Theory B* 78:1 (2000) pp. 115-122.
- (with H.A. Kierstead and G.N. Sárközy) "On k -ordered Hamiltonian Graphs", *Journal of Graph Theory* 32 (1999) pp. 17-25.

- (with A. Atkins and G.N. Sárközy) "Counting Irregular Multigraphs", *Discrete Mathematics* 195 (1999) pp. 235-237.
- "The Enumeration of Labeled Graphs by Number of Cutpoints", *Discrete Mathematics* 185 (1998) pp. 183-191.
- (with S. Taylor and N. Hachem), "The Average Height of a Node in the BANG Abstract Directory Tree", *Information Processing Letters* 61 (1997) pp. 55-61.
- (with C.A. Christen and G. Coray), "A Characterization of n -Component Graphs", *Discrete Mathematics* 149 (1996), pp. 279-281.
- "A Probabilistic Lower Bound on the Independence Number of Graphs", *Discrete Mathematics* 132 (1994), pp. 363-365.
- "The Independence Number of Graphs in Terms of Degrees", *Discrete Mathematics* 122 (1993), pp. 343-348.
- (with O. Murphy), "Finding Nearest Neighbors with Voronoi Tessellations", *Information Processing Letters* 34 (1990), pp. 37-41.
- (with O. Murphy), "The Complexity of Search Using k -d Trees for Finding Nearest Neighbors in Discrete Space", *Information Processing Letters* 23 (1986), pp. 215-218.
- (with A. Noetzel), "An Analysis of the General Tree Editing Problem", *Time-Warps, Subsequences and Macromolecules* (editors - J. Kruskal and D. Sankoff), Addison-Wesley (1983), pp. 237-252.
- (with C. Hughes), "On the Finite-Power Property of Context-Free Languages", *Journal of Theoretical Computer Science* 15 (1981), pp. 111-114.
- (with R. Garfinkel), "On a Conjecture by Gould on the Parities of the Binomial Coefficients", *Fibonacci Quarterly* 19 (1981), pp. 61-63.
- (with L. Babai and P. Erdős), "Random Graph Isomorphism", *SIAM Journal of Computing* 9 (1980), pp. 628-635.
- (with C. Christen), "Some Perfect Coloring Properties of Graphs", *Journal of Combinatorial Theory B* 27 (1979), pp. 49-59.
- "New Bounds for the Clique Number of a Graph", *Information Processing Letters* 7 (1978), pp. 173-174.
- "The Tree-to-Tree Editing Problem", *Information Processing Letters* 6 (1977),

pp. 184-186.

(with G. Coray and A. Noetzel), "Order Independence in Local Clustering Algorithms", *Computer Graphics and Image Processing* 4 (1975), pp. 120-132.

(with L. Nastansky and N. Stewart), "An Improved Solution to the Generalized Camin-Sokal Model for Numerical Cladistics", *Journal of Theoretical Biology* 48 (1974), pp. 970-981.

"Diagnostic Keys as a Representation for Context in Pattern Recognition", *IEEE Transactions on Electronic Computing* 9 (1974), pp. 970-971.

(with L. Nastansky and N. Stewart), "Cost-Minimal Trees in Directed Acyclic Graphs", *Zeitschrift for Operations Research* 18 (1974), pp. 59-67.

(with L. Nastansky and N. Stewart), "The Enumeration of Minimal Phylograms", *Bulletin of Mathematical Biology* 35 (1973), pp. 525-533.

"One-Pass Complexity of Digital Picture Properties", *Journal of the ACM* 19 (1972), pp. 283-295.