Invited Lectures

"It usually takes more than three weeks to prepare a good impromptu speech."

Mark Twain

Total Number of Invited Lectures: 183

2001

At Conferences:

1. IX Encuentros de Geometria Computacional, University of Girona, Girona, Spain, July 2-4, 2001, *"Open Problems in Reconfiguration of Polygons in Space."*
2. 965th Meeting of the American Mathematical Society, University of Nevada, Las Vegas, USA, April 21-22, 2001, *"Convexifying polygons in 3D: A survey."* Abstract # 965-51-108, p. 36.

2000

At Conferences:

1. 957th Meeting of the American Mathematical Society, University of Toronto, Canada, September 23-24, 2000, *"Recent results on reconfiguring polygonal chains in space."*
2. ***Keynote Address***, SPIE International Symposium on Optical Science and Technology, Vision Geometry IX, San Diego, California, July 30 - August 4, 2000, *"The complexity of computing nice viewpoints of objects in space."*
3. SIAM Discrete Mathematics Meeting, Minneapolis, Minnesota, June 12-15, 2000, *"Convexifying polygonal linkages in space and its applications to knot theory, polymer physics and molecular biology."*
4. Meeting of the American Mathematical Society, University of Massachusetts at Lowell, in Lowell, Massachussetts, April 1-2, 2000, *"Recent results on untangling unknots in space."*

At Universities:

1. The Year of Mathematics Lecture, *Mathematics and Technology Series*, Department of Applied Mathematics, Universidad Politecnica de Madrid, Friday, May 12, 2000, *"Aplicaciones del teorema de Erdos-Nagy a robotica, fisica de polimeros y biologia molecular."*
2. The LIMDA Seminar, (**L**aboratorio de **I**nvestigacion en **M**atematica **D**iscreta y **A**lgoritmica), Department of Applied Mathematics, Universidad Politecnica de Catalunya, Barcelona, Thursday, May 4, 2000, *"Recent Results on Untangling Unknots in Space."*

1999

At Conferences:

1. VIII Encuentros de Geometria Computacional, Castellon, Spain, July 7-9, 1999, *"Computational Polygonal Entanglement Theory."*

At Universities:

1. Computer Science Seminar, University of New Brunswick, Fredericton, August 31, 1999, *"The Erdos-Nagy Theorem and its Applications to Knot Theory, Polymer Physics and Molecular Biology."*
2. Computer Science Seminar, Carleton University, Ottawa, April 30, 1999, *"Untangling Polygonal Linkages."*
3. Geometry Seminar, Department of Mathematics, Courant Institute, New York University, April 20, 1999, *"Untangling Polygonal Linkages."*
4. Computer Science Seminar, University of Quebec in Montreal, April 9, 1999, *"Untangling Polygonal Linkages."*

1998

At Conferences:

1. Sixth Annual Meeting of the Belgian Statistical Society, Ol Fosse d'Outh, Houffalize, Belgium, October 8-9, 1998, *"Computational Geometry for Document Analysis."*

At Universities:

1. ACM Seminar, School of Computer Science, McGill University, Montreal, November 25, 1998, *"Mobility of Objects in Space."*
2. Seminar, Department of Applied Mathematics II, University of Sevilla, Spain, May 26, 1998, *"Mobility of Objects in Space."*

1997

At Conferences:

1. 924th Meeting of the American Mathematical Society, Montreal, Quebec, Canada, September 26-28, 1997, *"Constrained Facility Location."*
2. VII Encuentros de Geometria Computacional, Madrid, July 7-9, 1997, *"Eliminacion de Degeneraciones en Geometria Computacional."*

At Universities:

1. Seminar, School of Computer Science, McGill University, Montreal, Canada, November 19, 1997, *"The Constrained Minimum Spanning Circle Problem."*
2. Seminar, School of Computer Science, Carleton University, Ottawa, Canada, November 13, 1997, *"Constrained Facility Location."*
3. Seminar, Department of Mathematics and Computer Science, University of Quebec, Trois-Rivieres, Canada, April 9, 1997, *"On Removing Non-Degeneracy Assumptions in Computational Geometry."*
4. Computer Science Colloquium, University of Minnesota, Minneapolis, Minnesota, U.S.A., March 3, 1997, *"On Removing Non-Degeneracy Assumptions in Computational Geometry."*

1996

At Conferences:

1. 914th Meeting of the American Mathematical Society, Lawrenceville, New Jersey, USA, October 5-6, 1996, "*On Removing Degeneracies in Computational Geometry* ."
2. Carleton Algorithmic Theory Symposium, Ottawa, Canada, September 28, 1996, "*On Removing Degeneracies in Computational Geometry* ."
3. Conference on Facility Location, University of Sevilla, Spain, April 22-23, 1996, "*Computational Geometry and Facility Location* ."

At Universities:

1. Computational Geometry Seminar, Dept. of Applied Mathematics II, Universidad Politecnica de Catalunya, Barcelona, Spain, July 10, 1996, "*Removing Degeneracies in Computational Geometry* ."
2. Computational Geometry Seminar, Dept. of Applied Mathematics II, Universidad Politecnica de Catalunya, Barcelona, Spain, July 3, 1996, "*Facility Location* ."
3. Computational Geometry Seminar, Dept. of Applied Mathematics II, Universidad Politecnica de Catalunya, Barcelona, Spain, June 18, 1996, "*Mobility of Objects in Space - II* ."
4. Computational Geometry Seminar, Dept. of Applied Mathematics II, Universidad Politecnica de Catalunya, Barcelona, Spain, June 12, 1996, "*Mobility of Objects in Space - I* ."
5. Computational Geometry Seminar, Dept. of Applied Mathematics II, Universidad Politecnica de Catalunya, Barcelona, Spain, June 5, 1996, "*Computing Shortest Transversals of Planar Sets* ."
6. Computational Geometry Seminar, Dept. of Applied Mathematics II, Universidad Politecnica de Catalunya, Barcelona, Spain, May 29, 1996, "*Triangulating a Simple Polygon Efficiently in Practice* ."
7. Computational Geometry Seminar, Dept. of Applied Mathematics II, Universidad Politecnica de Catalunya, Barcelona, Spain, May 22, 1996, "*Proximity Graphs and Applications* ."
8. Computational Geometry Seminar, Dept. of Applied Mathematics, Universidad Politecnica de Madrid, Spain, May 8, 1996, "*Removing Degeneracies in Computational Geometry* ."
9. Computational Geometry Seminar, Dept. of Applied Mathematics, Universidad Politecnica de Madrid, Spain, April 30, 1996, "*Facility Location* ."
10. Conference on Computational Geometry and Facility Location, Universidad de Sevilla Spain, April 22, 1996, "*Facility Location and Computational Geometry* ."
11. Computational Geometry Seminar, Dept. of Applied Mathematics, Universidad Politecnica de Madrid, Spain, April 17, 1996, "*Mobility of Objects in Space - II* ."
12. Computational Geometry Seminar, Dept. of Applied Mathematics, Universidad Politecnica de Madrid, Spain, April 12, 1996, "*Mobility of Objects in Space - I* ."
13. Computational Geometry Seminar, Dept. of Applied Mathematics, Universidad Politecnica de Madrid, Spain, April 10, 1996, "*Aperture-Angle Optimization in Two and Three Dimensions* ."
14. Computational Geometry Seminar, Dept. of Applied Mathematics, Universidad Politecnica de Madrid, Spain, March 26, 1996, "*Computing Shortest Transversals of*

Planar Sets."

15. Computational Geometry Seminar, Dept. of Applied Mathematics, Universidad Politecnica de Madrid, Spain, March 22, 1996, "*Quadrangulations of Planar Sets."*
16. Computational Geometry Seminar, Dept. of Applied Mathematics, Universidad Politecnica de Madrid, Spain, March 20, 1996, "*Proximity Graphs and Their Applications."*
17. Computational Geometry Seminar, Dept. of Applied Mathematics, Universidad Politecnica de Madrid, Spain, March 13, 1996, "*Efficient Triangulation of Planar Sets."*

In Industry:

1. INRIA, Sophia-Antipolis, France, July 26, 1996, *"Removing Degeneracies in Computational Geometry."*

1995

At Conferences:

1. Computational Geometry Day, University of Newcastle, Australia, November 29, 1995, "*Drawing Nice Projections of Objects in Space* ."
2. 4th International Workshop on Algorithms and Data Structures, Kingston, Canada, August 16-18, 1995, "*Quadrangulations of Planar Sets."*
3. VI Encuentro de Geometria Computacional, Barcelona, Spain, July 5-7, 1995, *"Quadrangulations."*

At Universities:

1. Computer Science Seminar, University of New South Wales, Australia, December 18, 1995, "*Computing Quadrangulations of Sets."*
2. Electrical and Computer Engineering Seminar, University of Newcastle, Australia, November 20, 1995, "*Movable Separability of Objects in Space* ."
3. Basser Department of Computer Science Seminar, University of Sydney, Australia, November 2, 1995, "*Computing Quadrangulations of Sets."*
4. Computer Science Seminar, University of Newcastle, Australia, October 18, 1995, "*Computing Quadrangulations of Sets."*
5. Computing Science Seminar, Simon Fraser University, Burnaby, Canada, June 15, 1995, *"Quadrangulations of Planar Sets."*
6. Geometry Seminar, Courant Institute of Mathematical Sciences, New York University, New York, April 25, 1995, *"Quadrangulations of Planar Point Sets"*

1994

At Conferences:

1. Third Annual Symposium on Document Analysis and Information Retrieval, Alexis Park Hotel, Las Vegas, Nevada, April 12, 1994 *"Computational Geometry for Document Analysis."*
2. 892nd Meeting of the American Mathematical Society, Polytechnic University, Brooklyn, New York, April 10, 1994, *"Some Aperture-Angle Optimization Problems."*
3. Twenty Third Computational Geometry Day, Courant Institute of Mathematical Sciences, New York University, March 11, 1994, *"Geometric and Computational Aspects of Manufacturing Processes."*

At Universities:

1. Computing Science Seminar, School of Computing Science, Simon Fraser University, Burnaby, Canada, September 2, 1994, *"Where Should You Sit in the Cinema so That Your Favorite Actor is as Tall as Possible?"*
2. GINTIC Institute of Manufacturing Technology, Nanyang Technological University, Singapore, July 11, 1994, *"Geometric and Computational Aspects of Manufacturing Processes."*
3. Seminar, Department of Computer Science, National University of Singapore July 12, 1994, *"Where Should You Sit in the Cinema so That Your Favorite Actor is as Tall as Possible?"*
4. Seminar, Department of Computer Science, University of Newcastle Australia, July 14, 1994, *"Geometric and Computational Aspects of Manufacturing Processes."*
5. Seminar, Department of Computer Science, University of Newcastle Australia, July 15, 1994, *"A New Look at Euclid's Second Proposition."*
6. Seminar, Department of Mathematics, University of Nevada at Reno, April 15, 1994, *"A New Look at Euclid's Second Proposition."*
7. Seminar, Department of Electrical Engineering, University of Nevada at Reno, April 15, 1994, *"Geometric and Computational Aspects of Manufacturing Processes."*
8. Seminar, Department of Computer Science, Howard R. Hughes College of Engineering, University of Nevada at Las Vegas, April 13, 1994, *"Geometric and Computational Aspects of Manufacturing Processes."*

1993

At Conferences:

1. National Science Foundation Regional Geometry Institute, Smith College, Northampton, Massachussetts, July 12, 1993, *"Triangulations and Arrangements."*
2. National Science Foundation Regional Geometry Institute, Smith College, Northampton, Massachussetts, July 12, 1993, *"Computational Geometric Topics Suitable for High School."*
3. National Science Foundation Regional Geometry Institute, Smith College, Northampton, Massachussetts, July 13, 1993, *"Separating Objects with Translations."*
4. National Science Foundation Regional Geometry Institute, Smith College, Northampton, Massachussetts, July 14, 1993, *"Triangulating a Set of Line Segments."*
5. National Science Foundation Regional Geometry Institute, Smith College, Northampton, Massachussetts, July 14, 1993, *"Computing Geometric Properties of Arrangements of Lines and Line Segments."*
6. IV Encuentro de Geometria Computacional, Granada, Spain, June 1, 1993, *"Aproximación Poligonal de Curvas en dos y tres Dimensiones."*

At Universities:

1. Mechanical Engineering Department, Ecole Politechnique, University of Montreal, November 15, 1993, *"Computational Geometric Problems Related to Injection Molding."*
2. Mathematics & Computer Science Colloquium, University of Vermont, Burlington, Vermont, November 12, 1993, *"Movable Separability of Objects in Two and Three Dimensions."*
3. Mathematics & Computer Science Seminar, Middlebury College, Vermont, October 12, 1993, *"Movable Separability of Objects in Two and Three Dimensions."*
4. Geometry Seminar, Department of Computer Science, Utrecht University, June 29, 1993, *"Geometric and Computational Aspects of Injection Molding and Stereolithography."*
5. Pattern Recognition Colloquium, Department of Physics, Delft University of Technology, June 28, 1993, *"Geometric and Computational Aspects of Injection Molding and Stereolithography."*
6. Department of Applied Mathematics II, Universidad Politecnica de Catalunya, Barcelona, Spain, June 17, 1993, *"Aspectos Geometricos y Computacionales de la*

Inyección en Moldes y de la Estereolitografia."

7. Department of Applied Mathematics, Universidad Politecnica de Madrid, Spain, June 10, 1993, *"Arreglos de Rectas."*
8. Seminar, Faculty of Mathematics and Computer Science, University of Amsterdam, May 28, 1993, *"Approximating Polygonal Curves in Two and Three Dimensions."*

In Industry:

1. IBM Software Solutions Toronto Laboratory, The Centre for Advanced Studies, North York, Ontario, December 10, 1993, *"Geometric and Computational Aspects of Manufacturing Processes."*
2. Bell Northern Research, Nun's Island, Montreal, May 12, 1993, *"The Application of Proximity Graphs to Edited Nearest Neighbor Decision Rules."*

1992

At Conferences:

1. Canadian Conference on Electrical and Computer Engineering, Toronto, Canada, September 14, 1992, *"The Use of Proximity Graphs in Image Analysis and Computer Vision."*
2. Séptimo Coloquio de Teoría de las Gráficas, Combinatoria y sus Aplicaciones, Universidad Autónoma de Zacatecas, México, February 27, 1992, *"Aplicación de la Teoría de Gráficas a la Aproximación Poligonal de Curvas.*

At Universities:

1. Seminar, Department of Mathematics, City University of New York, York College, Jamaica, N.Y., September 25, 1992, *"Separability of Sets of Objects in Two and Three Dimensions."*
2. Seminar, Department of Computer Science, York University, North York, Ontario, September 15, 1992, *"Separability of Sets of Objects in Two and Three Dimensions."*
3. Colloquium, Department of Mathematics and Computer Science, University of Tulsa, Okla., July 14, 1992, *"Separability of Sets of Objects in Two and Three Dimensions."*
4. The Guillermo Torres Seminar on Topology and Geometry, Institute of Mathematics, Universidad Nacional Autónoma de México, México City, June 25, 1992, *"Separabilidad de Objetos Mediante Translaciones en dos y tres Dimensiones."*

5. Research Seminar, Department of Applied Mathematics II, Universidad Politecnica de Catalunya, Barcelona, June 8, 1992, *"Open Problems in Computational Geometry."*
6. Seminar on Software Mathematics and Computational Mathematics, Department of Applied Mathematics II, Universidad Politecnica de Catalunya, Barcelona, June 5, 1992, *"Separabilidad de Objetos Mediante Movimientos en el Plano y el Espacio Tridimensional."*
7. Colloquium, Department of Mathematics, Universidad Politecnica de Madrid, June 4, 1992, *"Separabilidad de Objetos Mediante Movimientos en el Plano y el Espacio Tridimensional."*
8. Research Seminar, Department of Mathematics, Universidad Politecnica de Madrid, June 3, 1992, *"Computational Geometry at McGill University."*
9. Colloquium, Department of Mathematics and Computer Science, University of Quebec in Montreal, May 7, 1992, *"Movable Separability of Sets in Two and Three Dimensions."*
10. Mathematics Colloquium, Departments of Mathematics, Statistics, Computer Science and Electrical Engineering, University of Vermont, Burlington, Vermont, USA, April 10, 1992, *"A New Look at Euclid's Second Proposition."*
11. Seminar, McGill Research Center for Intelligent Machines, McGill University, Montreal, Canada, January 29, 1992, *"Movable Separability of Objects in Two and Three Dimensions."*
12. Seminar, McGill Research Center for Intelligent Machines, McGill University, Montreal, Canada, January 22, 1992, *"The Use of Proximity Graphs in Pattern Recognition."*

In Industry:

1. I.B.M. Thomas J. Watson Research Center, Yorktown Heights, N.Y., May 29, 1992, *"Computing Geometric Properties of Arrangements of Lines and Line Segments."*

1991

At Conferences:

1. 2nd Japan International Symposium of the Society for the Advancement of Materials and Process Engineering, Chiba, Japan, December 14, 1991, *"Computing Morphological Properties of Arrangements of Lines."*
2. The Fifth Annual Computer Science Days '91, Memorial University of Newfoundland, St. John's, Newfoundland, October 17-18, 1991, *"Computing*

Shortest Transversals of Sets."

3. IEEE Computer Society Conference on Computer Vision & Pattern Recognition, Lahaina, Maui, Hawaii, June 3-6, 1991, *"Computational Geometry and Computer Vision."*
4. Sexto Coloquio de Teoría de las Gráficas, Combinatoria y sus Aplicaciones, Guanajuato, México, March 4-8, 1991, *"Calculo de Propiedades Geometricas de Arreglos de Líneas."*

At Universities:

1. Computer Science Seminar, Division of Computer Science, Asian Institute of Technology, Bangkok, Thailand, January 8, 1991, *"Polygonal Approximation of Curves and Applications."*
2. Information Science Seminar, Institute of Information Science, Academia Sinica, Taipei, Taiwan, Republic of China, December 19, 1991, *"Computing Shortest Transversals of Sets."*
3. Seminar, Ottawa-Carleton Institute for Computer Science, Carleton University, November 7, 1991, *"Computing Geometrical Properties of Arrangements of Lines."*
4. Séminaire en Informatique, Département d'Informatique, Université du Québec at Hull, November 6, 1991, *"Computing Geometrical Properties of Arrangements of Lines."*
5. Seminar on the History and Philosophy of Science, Department of Psychology, McGill University, September 30, 1991, *"The Role of Visual and Kinesthetic Thinking in Geometry."*
6. Distinguished Seminar Series, Sesquicentennial Anniversary of Queens University, Department of Computing and Information Science, Kingston, Ontario, April 18, 1991, *"A New Look at Euclid's Second Proposition."*
7. Distinguished Lecture Series, 225th Anniversary of Rutgers University, Computer Science Department Colloquium, New Brunswick, New Jersey, April 1st, 1991, *"Computing Shortest Transversals of Sets."*
8. Colloquium, University of Waterloo, Department of Computer Science, Waterloo, March 22, 1991, *"Computing Shortest Transversals of Sets."*
9. C & O Seminar, University of Waterloo, Department of Combinatorics and Optimization, Waterloo, March 21, 1991, *"A New Look at Euclid's Second Proposition."*
10. Colloquium, University of Nevada at Las Vegas, Department of Computer Science, January 28, 1991, *"Computing Shortest Transversals of Sets."*

1990

At Conferences:

1. Workshop on the Foundation of Computer Graphics, Asian Institute of Technology, Bangkok, Thailand, December 6-20, 1990, *"Computational Geometric Aspects of Visibility."*
2. The 3rd Tokyo Algorithms Day, University of Tokyo, December 3, 1990, *"Computing Geometric Properties of Line Arrangements."*
3. Fifteenth Computational Geometry Day, Courant Institute of Mathematical Sciences, New York University, New York, November 9, 1990, *"Computing Extremal Transversals of Sets."*
4. 2nd Canadian Conference on Computational Geometry, University of Ottawa, August 6, 1990, *"Computing Geometric Properties of Arrangements."*
5. Computer Graphics International'90, Singapore, June 26, 1990, *"Computational Geometric Aspects of Illumination and Visibility."*
6. Third Cumberland Conference on Graph Theory and Applications to Computer Science, University of Louisville, Kentucky, May 17-19, 1990, *"Graph theory, Computational Geometry, & Morphology."*
7. V Coloquio de Teoría de las Gráficas, Combinatoria y sus Aplicaciones, Universidad Michoacana de San Nicolas de Hidalgo, Casa de la Cultura, Morelia, México, March 2nd, 1990, *"Gráficas de Proximidad en Problemas de Visión Computacional."*
8. V Coloquio de Teoría de las Gráficas, Combinatoria y sus Aplicaciones, Universidad Michoacana de San Nicolas de Hidalgo, Casa de la Cultura, Morelia, México, February 27, 1990, *"Triangulacion de Poligonos."*

At Universities:

1. Colloquium, Simon Fraser University, Department of Computer Science, Burnaby, November 30, 1990, *"A New Look at Euclid's Second Proposition."*
2. Colloquium, Simon Fraser University, Department of Computer Science, Burnaby, June 1, 1990, *"Computing Geometric Properties of Arrangements.*

In Industry:

1. Nippon Telegraph and Telephone Corporation, Autonomous Robot Systems Laboratory, Tokyo, December 5, 1990, *"Computational Geometric Aspects of Visibility."*

1989

At Conferences:

1. First Workshop on Proximity Graphs, New Mexico State University, December 2, 1989, *"Some unsolved problems on proximity graphs."*
2. First Workshop on Proximity Graphs, New Mexico State University, Las Cruces, December 2, 1989, *"Proximity graphs in computer vision."*
3. Meeting of the American Mathematical Society, Stevens Institute of Technology, Hoboken, New Jersey, October 22, 1989, *"Computational geometry and computer vision."*

At Universities:

1. Colloquium, Ohio State University, Department of Computer and Information Science, Columbus, November 2, 1989, *"Computing Minimal Spanning Covers of Sets."*
2. Colloquium, University of Amsterdam, Department of Computer Science, Amsterdam, July 6, 1989, *"Determining Weak External Visibility of a Polygon."*
3. Colloquium, University of Amsterdam, Department of Computer Science, Amsterdam, July 6, 1989, *"Computing Geodesic Properties of Polygons."*
4. Colloquium, University of Amsterdam, Department of Computer Science, Amsterdam, June 22, 1989, *"A Hierarchy of Polygons That Admit Linear-Time Triangulation."*
5. Colloquium, University of Amsterdam, Department of Computer Science, Amsterdam, June 22, 1989, *"An Output-Complexity-Sensitive Polygon Triangulation Algorithm."*
6. Colloquium, University of Amsterdam, Department of Computer Science, Amsterdam, June 15, 1989, *"Separating Two Simple Polygons by a Single Translation."*
7. Colloquium, University of Amsterdam, Department of Computer Science, Amsterdam, June 1, 1989, *"Determining Edge-to-Edge Visibility in a Polygon."*
8. Colloquium, University of Amsterdam, Department of Computer Science, Amsterdam, June 1, 1989, *"Computing Distances Between Sets."*
9. Colloquium, University of Amsterdam, Department of Computer Science, Amsterdam, May 25, 1989, *"Computing the Convex Hull of a Set."*
10. Colloquium, University of Amsterdam, Department of Computer Science, Amsterdam, May 25, 1989, *"Computing the Diameter of a Set."*
11. Colloquium, University of West Indies, Department of Mathematics, Cave Hill,

Barbados, February 22, 1989, *"A Hierarchy of Polygons That can be Triangulated in Linear Time"*

12. Colloquium, University of West Indies, Department of Mathematics, Cave Hill, Barbados, February 15, 1989, *"An Output-Complexity Sensitive Polygon Triangulation Algorithm."*

1988

At Universities:

1. Colloquium, Algorithms Group Seminar, Simon Fraser University, School of Computing Science, Burnaby, November 25, 1988, *"On Determining the Weak Visibility of a Polyhedral Terrain From a Line."*
2. Colloquium, University of Washington, Department of Computer Science, Seattle, October 19, 1988, *"On Triangulating Simple Polygons."*
3. Colloquium, University of British Columbia, Department of Computer Science, Vancouver, September 29, 1988, *"On Triangulating Simple Polygons."*
4. Colloquium, University of Victoria, Computer Science Department, Victoria, September 16, 1988, *"On Triangulating Simple Polygons."*
5. DARTS Lecture (Distinguished Advanced Research and Technology Seminar) Simon Fraser University, School of Engineering Science, Burnaby, September 15, 1988, *"Computational Geometry and Robotics."*
6. Colloquium, Simon Fraser University, School of Computing Science, Burnaby, August 10, 1988, *"On Triangulating Simple Polygons."*

In Industry:

1. MacDonald, Dettwiler & Associates, Richmond, B.C., November 9, 1988, *"Computational Geometry and Geographic Information Systems."*

1987

At Conferences:

1. 13th IFIP Conference on System Modelling and Optimization, Tokyo, Japan, Sept.1st., 1987, *"Relative Convex Hulls of Sets and their Applications."*
2. Workshop on Computational Geometry and Discrete Algorithms, Osaka Electro-Communication University, Osaka, Japan, Sept. 5, 1987, *"Relative Convex Hulls of Sets and their Applications."*

At Universities:

1. University of Tokyo, Computer Science Department (c/o Prof. Kunii), Sept. 3, 1987, *"Relative Convex Hulls of Sets and their Applications."*
2. Simon Fraser University, Computer Science Department, Vancouver, August 28, 1987, *"Relative Convex Hulls of Sets and their Applications."*
3. Carleton University, School of Computer Science, Ottawa, October 30, 1987, *"Relative Convex Hulls of Sets and their Applications."*

1985

At Universities:

1. Computer Science Seminar, Carleton University, Ottawa, Canada, February 28, 1985, *"Some Collision Avoidance Problems in the Plane."*

1984

At Conferences:

1. Computer Science and Statistics: 16th Symposium on the Interface, Atlanta, U.S.A., March 1984, G.T. Toussaint, B.K. Bhattacharya, and R.S. Poulsen, *"The Application of Voronoi Diagrams to Nonparametric Decision Rules."*

At Universities:

1. Computer Science Colloquium, University of Maryland, College Park, U.S.A., April 26, 1984, *"Some Collision Avoidance Problems in the Plane."*

1983

At Conferences:

1. IEEE International Symposium on Information Theory, St. Jovite, Canada, September, 1983, *"The Complexity of Movement."*
2. IEEE International Symposium on Information Theory, St. Jovite, Canada, September, 1983, G.T. Toussaint, and B.K. Bhattacharya, *"On Geometric Algorithms That use the Furthest Point Voronoi Diagram."*

At Universities:

1. Computer Science Colloquium, Kyoto University, Kyoto, Japan, December 26, 1983, *"Some Collision Avoidance Problems in the Plane."*
2. Electrical, Engineering Colloquium, University of Nagoya, Japan, December 29, 1983, *"Some Collision Avoidance Problems in the Plane."*
3. Mathematical Engineering Colloquium, University of Tokyo, Japan, December 16, 1983, *"Some Collision Avoidance Problems in the Plane."*
4. Computer Science Colloquium, Concordia University, Montreal November 1983, *"Some Collision Avoidance Problems in the Plane."*
5. Systems Science Colloquium, University of Toronto, February 1983, *"Recent Results in Computational Geometry."*

In Industry:

1. Hitachi Central Research Laboratory, Tokyo, Japan, December 22, 1983, *"Some Collision Avoidance Problems in the Plane."*

1982

At Conferences:

1. 86th Summer Meeting of the American Mathematical Society, August 21-26, 1982, Toronto, *"Distance and visibility problems in computational geometry."*

At Universities:

1. Psychology Colloquium, Carleton University, Ottawa, October 18, 1982, *"The Computation and Perception of Shapes."*
2. Mathematics Colloquium, University of Genova, Italy, June 1982, *"Efficient Algorithms for Computing Distances Between Sets."*
3. Computer Science Colloquium, University of Torino, Italy, June 1982, *"Efficient Algorithms for Computing Distances Between Sets."*

In Industry:

1. Bell Northern Research, Nun's Island, Verdun, October 29, 1982, *"Graph-theoretic Methods for Edited Nearest Neighbor Decision Rules,"*

1981

At Conferences:

1. NATO Avanced Study Institute on Pattern Recognition Theory and Practice, Oxford University, April 1981, *"Computational Geometric Problems in Pattern Recognition."*

At Universities:

1. Colloquia Estria, Département de Mathématiques et d'informatique, Université de Sherbrooke, 26 mars, 1981, *"Problèmes en Géométrie Algorithmique,"*
2. Computer Science Seminar, University of British Columbia, Vancouver, Feb. 6, 1981, *"Pattern Recognition and Geometrical Complexity."*

In the Comminuty:

1. Herzliah High School, invited speaker at the awards-ceremonies of the First Montreal High-School Computer Programming Competition, May 3, 1981, *"Computer Applications in Artificial Intelligence."*

1980

At Conferences:

1. Fifth International Conference on Pattern Recognition, Miami, December 1980, *"Pattern Recognition and Geometrical Complexity."*

At Universities:

1. Computing and Information Science Seminar, Queen's University, Kingston, Ontario, November 5, 1980, *"Pattern Recognition and Geometrical Complexity."*
2. Computing and Information Science Seminar, Queen's University, Kingston, Ontario, March 26, 1980, *"The Relative Neighborhood Graph of a Finite Planar Set."*

1979

At Universities:

1. Séminaire d'Informatique Heuristique, Université de Paris, (Pierre et Marie Curie), June 11, 1979, *"Pattern Recognition and Geometrical Complexity: Placing an*

Elastic Band Around a Group of Pegs."

2. Systems Theory Seminar, University of Louvain (La Neuve), Belgium, June 8, 1979, *"Pattern Recognition and Geometrical Complexity: Placing an Elastic Band Around a Group of Pegs."*
3. Electrical Engineering Seminar, Delft University of Technology, The Netherlands, June 5, 1979, *"Using Contextual Information to Improve the Performance of Character Recognition Machines."*
4. Department of Applied Physics Seminar, Delft University of Technology, The Netherlands, June 1, 1979, *"Pattern Recognition and Geometrical Complexity: Placing an Elastic Band Around a Group of Pegs."*

1978

At Universities:

1. Computer Science Colloquium, University of Connecticut, October 13, 1978, *"The Convex Hull as a Tool in Pattern Recognition."*
2. Computing Center and Computer Science Colloquium, State University of New York at Buffalo, October 6, 1978, *"The Convex Hull as a Tool in Pattern Recognition."*

1977

At Conferences:

1. IEEE Conference on Pattern Recognition and Image Processing, June 1977, Troy, N.Y., *"The Use of Context in Pattern Recognition."*

1976

At Universities:

1. University of Montreal, April 1st, 1976, *"Using Contextual Information to Improve the Performance of Character Recognition Machines."*

1975

At Universities:

1. Clarkson College of Technology, December 4, 1975, *"Using Contextual Information to Improve the Performance of Character Recognition Machines."*
2. Department of Electrical Engineering, McGill University, March 13, 1975, *"The Use of Statistical Language Constraints in Machine Recognition of Hand Printed English Text."*

1974

At Conferences:

1. Conference on Measures of Information and their Application, August 1974, Bombay, India, *"On Some Measures of Information and their Application to Pattern Recognition."*
2. Second International Joint Conference on Pattern Recognition, August 1974, Copenhagen, Denmark, *"Recent Progress in Statistical Methods Applied to Pattern Recognition."*

At Universities:

1. Computer Science Department, Simon Fraser University, Spring, 1974, *"The Use of Statistical Language Constraints to Improve the Performance of Character Recognition Machines."*

1973

At Universities:

1. Département d'Informatique, Université de Montreal, Spring, 1973, *"Distance Measures as Measures of Certainty and Their Application to Pattern Recognition."*

"A good preparation takes longer than the delivery." **- Nebeuts E. Kim**

Curriculum Vitae *Homepage*