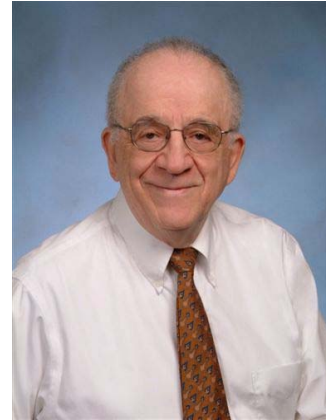


CURRICULUM VITA



Nick T. Thomopoulos

Professor

Stuart School of Business
Illinois Institute of Technology
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Education

Ph.D. Industrial Engineering, Illinois Institute of Technology
M.A. Mathematics, University of Illinois
B.S. Business Statistics, University of Illinois

Professional History

1968-Present Professor, Management Sciences, Stuart School of Business, Illinois Institute of Technology.

Lectured graduate courses in Queuing Theory, Inventory and Production Control, Assembly Methods, Statistics, Probability, Stochastic Processes, Industrial Forecasting, Statistical Decision Theory, Operations Research, Risk Analysis and Computer Simulation. Participated in a research project on designing police beat configurations. Consultant to a wide variety of industrial companies and government agencies. Consulted and lectured in the United States, Europe, Japan, Taiwan, Thailand, Canada, Mexico, Puerto Rico and South America.

1966-1968 Senior Scientist, Computer Sciences Division, IIT Research Institute, Illinois Institute of Technology. Consulted in the United States, Europe, Japan with a wide variety of companies on various manufacturing and inventory problems. Developed an operations model to study airplane noise abatement, and econometric model for railroad maintenance expenditures, an error analysis model for military strategies, and an extensive use of queuing theory in its application to voice communications systems. Various other applications include uses of analysis of variance, reliability and Bayesian statistics.

1959-1966 Supervisor, Operations Research and Statistics, International Harvester Company.

Applications include uses of operations research, statistical, mathematical, and computer technology in many phases of business. These included development of analytic procedures for economic order quantities, safety stock levels, sales forecasting, warehouse location, evaluation of pension trust fund performances, cam design and plow design. Also, the development of a statistical system to accurately estimate parts inventories from a sample count.

Brief Biography

Nick served in the U.S. Army from 1953 to 1955 and was discharged a Sergeant.

Nick Thomopoulos has degrees in business (B.S.) from the University of Illinois, in mathematics (M.A.) from the University of Illinois, and in industrial engineering (Ph.D.) from Illinois Institute of Technology.

He worked for International Harvester (1959-1966) and was promoted to supervisor of operations research in the corporate headquarters. Here he developed a new way to design agriculture plows, and also cotton-picker cams. He also installed a statistical sampling method to count the inventory at the eleven parts distribution centers.

He then was employed at IIT Research Institute (1966-1968) where he was promoted to the rank of senior scientist. Nick was the architect of the noise abatement program that influenced all the airports in the U.S. He created advance queuing methods to design the radio communication system for the U.S. Navy. Nick was the senior analyst in the development of the software routines used by the Advance Manufacturing Methods program with applicants world-wide.

While working full time and taking classes at IIT, Nick was teaching night classes for the Industrial Engineering Department from 1963 to 1968. In 1968 he joined the Industrial Engineering Department of IIT. In 1980, the Industrial Engineering Department moved to the Stuart School of Business. There he rose to the rank of professor (Management Science) until he semi-retired in 2002. Nick was then

awarded the titles of Professor Emeritus and Research Professor. He continues to teach a full load and mostly to the Ph.D. students.

Over the course of forty years, Nick has taught many IIT students from all over the world. He has taught fourteen different courses: probability, advance data analysis, time series, queuing theory, simulation methods, data analysis, inventory management, inventory and production control, assembly methods, statistical methods, industrial forecasting, stochastic processing, statistical decision theory and operations research. Most were graduate level courses. He received the Outstanding Teacher Award from the Stuart School of Business in 1996.

Nick has been the advisor to thirty-two graduated Ph.D. students and four masters' degree students from the industrial engineering department and the Stuart School of Business. In 2006, he was the advisor to four students who received Ph.D. degrees. He currently is advising two Ph.D. students, one who is a professor at Cairo University in Egypt. He also served on numerous Ph.D. committees for students in his own department and in other departments including: architecture, mathematics, computer science, civil engineering, psychology and electrical engineering. In addition, he has been an advisor to Ph.D. students from other universities, (Northwestern, Rocky Mountain and Adelaide Universities).

He has made an impact on thousands of students, by whom he is well regarded. He received the Outstanding Teacher Award from the Stuart School of Business in 1996. Nick's students have achieved very successful careers. Many became professors at major universities around the world while others rose to the rank of senior vice president for major industrial corporations. Still others *have* started their own successful consulting firms or businesses. Two of his students have achieved outstanding alumni awards from IIT. Another became Dean of the Brennan School of Business.

Nick has been: faculty advisor to the IIT Greek Club (1970-1980), advisor to the IIT Alpha Pi Mu (Industrial Engineering) honorary chapter (1970-1985), advisor to IIT Honor students (1970-1985), and an officer of the IIT Sigma Xi (Scientific) honorary chapter (1980-1984). He also served with the IIT Experimental Engineering Education Department (1975-1976).

For many years, he has consulted in a wide variety of industries in the United States, Europe and Asia. In the U.S., these include: Wrigley Company, Wheelabrator Fry, Motorola Corporation, U.S. Steel, Florsheim Shoe Company, Clow Industries, International Harvester Corporation, Ford Motor Corporation, Whirlpool Corporation, IBM, Underwood Typewriter Corporation, John Deere Corporation, Komatsu Dresser, International Truck and Engine Corporation and Caterpillar Corporation. In Europe, these include: Olivetti Corporation, L.M. Erickson, Asea Corporation, British Motors Corporation, and Citroen Corporation. In Asia, these include: Mitsubishi Heavy Industries, Suzuki, Toshiba, Hitachi Zosen. M-Focus and Unity Ltd.

In addition, Nick also conducted research for the Office of Naval Research, U.S. Army Aviation and Troop Command and the Pentagon. He also was consultant to the Federal Aviation Administration and to the American Association of Railroads.

He has received honors over the years. In 1972 he received the Rist Prize for Best Paper for New Developments in Queuing Theory from the Military Operations Research Society, the Outstanding Teacher Award from the Stuart School of Business in 1996, the Distinguished Professor Award from the IIT Asian Alumni Association in Bangkok, Thailand in 2005 and the *Best Paper Award* from the IBER and TLC conference in 2005 for research using Bayesian methods in forecasting. He is a member of Sigma Xi (Scientific Honorary), Pi Mu Epsilon (Mathematics Honorary), Tau Beta Pi (Engineering Honorary) and Alpha Pi Mu (Industrial Engineering Honorary).

Nick has been a member of the Operations Research Society of America, Institute of Management Sciences, American Institute of Industrial Engineers, American Production and Inventory Control Society, Decision Science Institute and Informs. He also has been chair on many conference sessions.

Nick has presented lectures and seminars in the U.S., Canada, Mexico, Puerto Rico, England, France, Belgium, Sweden, Italy, Denmark, Greece, Japan, Taiwan and Thailand. These include: 4-hour seminars on Assembly Line Methods in Stockholm, Sweden (1969) and in Tokyo, Japan (1970). He was the Keynote Speaker at the Logistics Conference in Bangkok, Thailand in 2005; the speaker on 4-hour Supply Chain seminars for the Unity Conference in Taipei, Taiwan (2005), and the same in Bangkok, Thailand (2005). He also gave a 6-hour seminar on Forecasting and Inventory Methods at the Hellenic-American Institute in Athens, Greece (2002).

Thomopoulos also developed the forecasting and inventory replenishment system (DRP) for the Service Parts Division of Navistar Corporation and an instructional program. He wrote a 200 page DRP manual and 10 hours of his lectures were videotaped. The system and the educational program continue to be in use.

Thomopoulos is a principal of FIC Inc., builders of software in forecasting, inventory and production for industrial use. The software is in use in companies throughout the world and in over 100 dealerships. Twenty copies of the software have been donated to the Stuart School of Business and have been in use since 1995 in classes of Supply Chain Management and Time Series Methods. Over 100 copies are installed at Tamasek Polytech Institute in Singapore.

Nick has also significantly contributed to his profession through the many journal articles and books he has written. The books, *Assembly Line Systems*, Hayden Books, (1974); *Applied Forecasting Methods*, Prentice Hall (1980); *Inventory Management and Planning*, Hitchcock Publishing Company (1990), have been widely used in industry and in the classroom.

Nick has written a non-technical book: *My Relatives in Greece*, LithoTech, Mi., 2008. He has also been active in his church and children's school activities over the course of many years.

Academic Concentrations and Research Interests

Applications of Operations Research and Statistics

Contributions to Teaching

<u>Courses Taught:</u>	2000-2009	1990-1999	1970-1990
Supply Chain Methods	x		
Probability	x	x	x
Advanced Data Analysis	x	x	
Time Series	x	x	
Queuing Theory	x	x	x
Simulation Methods	x	x	x
Data Analysis		x	
Inventory Management	x	x	x
Inventory and Production Control			x
Assembly Methods			x
Statistical Methods			x
Industrial Forecasting		x	x
Stochastic Processes			x
Statistical Decision Theory			x
Operations Research			x

Ph.D. Dissertation Supervision:

2007	M. Jance	“Calculating Min and Max Extreme Interval Values for Various Distributions”
2007	N. Plumchitchom	“The Queueing Theory of the Erlang Distributed Interarrival and Service Time”
2007	A. Ruangkanjanases	“Forecasting with Irregular Demand”
2006	O. Sivarak	“Multi-Item Quantity Decision with a Joint Volume Discount”
2005	R. Abuizam	“Bayesian Forecasts with Advance Demands.”
2002	C. Lindee	“The Multivariate Standard Normal Distribution.”
2001	A. Johnson	“The Truncated Normal Distribution.”
2000	B. Allen	“Optimization of Unique Batch Assembly with Uncertainty.”

1998	M. Jantaravareerat	“Approximation of the Distribution Function for the Standard Bivariate Normal.”
1996	G. Lentz	“Expert System for Service Part’s Initial Order Quantities.”
1995	P. Krishnamoorthy	“Regression Analysis Modeling of Flat Rolled Steel Characteristics vs. Processing Variables.”
1992	M. Ghobadian	“Inventory Models for Substitutable Items.”
1991	N. Boundaoui	“Comparison of Macro and Micro Forecasts Using Model Parameters.”
1991	B. Rodriguez	“Forecasting Demand Using Surrogate Information.”
1991	I. Al-Jabri	“Expert System for Forecasting.”
1990	S. Yoon	“Optimal Control for Inventory Distribution System Using Actual Lead Time.”
1990	M. Shiau	“Forecasting with Alternative Time Intervals.”
1990	P. Manaspiti	“Forecasting When Unequal Time Intervals.”
1988	C. Pan	“Cellular Manufacturing for Job Shop to Achieve Just in Time Production.”
1987	W. Bancroft	“A Schedule Sequencing Algorithm for Mixed Model Assembly Lines.”
1987	A. Chaib	“Aggregate Forecasting.”
1986	T. Gerginis	“Forecast Variance and Confidence Limits of Holt’s-Winter’s Seasonal Forecast.”
1984	T. Bunnak	“Filtering Demand History.”
1981	Y. Mizoroki	“Analysis of Lumpy Demands.”
1981	R. Warren	“Forecast Modification When Some Future Demands are Known.”
1979	P. Pantinsinchai	“The (Q,S,.) Inventory Policy Under Possan Demands.”
1979	J. Lauer	“Manpower Scheduling to Accommodate

		Absenteeism on Assembly Lines.”
1978	T. Galvin	“Scheduling Methodology for a Machine Operation with Preheated Material.”
1976	C. Jones	“Allocation of Limited Resources in Multi-Project Scheduling.”
1974	S. Godambe	“Uncertainty in Two Stage Manufacturing.”
1970	R. Morris	“A Study in Hospital Reservations Systems.”
1967	M. Lehman	“Economic Evaluation of Progressive Assembly Lines.”

M.S. Dissertation Supervision:

1980	B. Hart	“Analysis of the Box-Jenkins Model.”
1976	C. Laakso	“Multi Location Safety Stock.”
1974	M. Nahata	“Line Sequencing for Parallel Assembly Systems.”
1970	R. Reed	“Relation Between Number of Stations and Cycle Time.”

Intellectual Contributions

Basic Scholarship

“The Initial Buy Quantity”, International Journal of Operations and Quantitative Management, 2009.

With M. Jance, “Min and Max Exponential Extreme Intervals and Statistics”, American Journal of Business Education, Volume 2, Number 1, January-February 2009.

“Demand Flow from Customers to Dealers to Suppliers”, Proceedings NEDSI, Uncassville, CT., April 2009.

With M. Jance, “Min and Max Uniform Extreme Intervals and Statistics” Academic, ”, Journal of Business & Economic Research, Volume 7, No. 1, January 2009.

With M. Jance, “Min and Max Exponential Extreme Intervals and Statistics”,

Proceedings Clute Institute, Hawaii, January 2009.

With M. Jance, “Min and Max Standard Normal Extreme Intervals and Statistics”,
Journal of Business & Economic Research, Volume 6, No. 8., August, 2008.

“2-Level-Service”, Journal of Business & Economic Research, Volume 6, No. 6, June
2008.

“Initial Buy Quantity”, Decision Sciences Institute Proceedings, Erie, Pa., April 2008.

With M. Jance, “Min and Max Uniform Extreme Intervals and Statistics” Academic,
Business Research Conference Proceedings, Orlando, 2008.

“Some Supply Chain Examples”, Northern Illinois Quality Conference, Naperville,
November 2007.

“Lost Sales”, North-East Decision Sciences Institute Conference, Baltimore,
Reviewed refereed papers and the presentation, Decision Sciences, March 2007.

With A. Ruangkanjanases, “Forecasting with Irregular Demand History”, Decision
Sciences Institute Midwest Conference Proceedings, Reviewed refereed papers and the
presentation, Decision Sciences, Chicago, April, 2007.

With M.Jance, “Extreme Value Distributions”, Clute Conference, Las Vegas, 2006.
(Best paper award)

With N. Plumchitchom, “The Queueing Theory of the Erlang Distributed Interarrival
and Service Times”, Journal of Research in Engineering and Technology, Vol. 3, No.
4, Oct-Dec. 2006.

“Supplier Lateness, Safety Time and Service Level”, Journal of Research in
Engineering and Technology, Vol. 3, No. 4, 2006.

“Comparison of Service Level and Availability methods to determine Safety Stock”,
Business Application Conference, Cancun, Mexico, March 2006.

With O.Sivirak, “Multi-Item Quantity Discount Buy”, Business Application
Conference, Cancun, Mexico, 2006.

“Some new Developments in Supply Chain Software”, Keynote Speaker, at the
Logistics Conference, Bangkok, Thailand, December 2005.

“Supply Chain Methods”, IIT Asian Alumni Conference, Bangkok, Thailand,
December 2005.

With R. Abuizam, “Baysean Forecasts with Advance Demands”, Clute Institute
Conference, Las Vegas, November 2005. (Best Paper Award).

With A. Johnson, "Some Measures on the Standard Bivariate Log Normal Distribution", Reviewed refereed papers and the presentation, Decision Sciences, Boston, November 2004

"Demands Backorders, Service Level, Lost Sales and Effective Service Level", Journal of Business and Economic Research, Vol 2, November, 2004.

With A. Johnson. "Characteristics and Tables of the Standard Log Normal Distribution",
Reviewed refereed papers and presentation, Washington D.C, November 2003.

With A. Johnson, "Characteristics and Tables of the Partial Expectation of the Left-Truncated Normal Distribution", Reviewed refereed papers and presentation, Decision Sciences, Cleveland, March 2004.

"How to Measure Lost Sales, "The Conference on Business and Economics", Puerto Rico, March 2004.

Service Level Demands, Back orders, Host sales and effective service level",
Reviewed research papers and presentation, Applied Business Research Conference, San Juan, March 2004.

With A. Johnson "Characteristics and Tables of the Partial Expectation of the Left Truncated Normal Distribution", Reviewed Research Paper and Presentation, Cleveland, April 2004.

With A. Johnson. "Use of the Left-Truncated Normal Distribution for Improving Achieved Service Levels." Reviewed research paper and presentation, Decision Science Institute Conference, San Diego, November 2002.

With C. Linde. "Tables on the Multivariant Standard Normal Distribution." Proceedings, Midwest Decision Science Institute Conference, Milwaukee, May 2002.

With A. Johnson. "The Truncated Normal Distribution." Proceedings, Midwest Decision Science Institute Conference, Milwaukee, May 2002.

With A. Johnson. "Characteristics and Tables of the Doubly-Truncated Normal Distribution." Reviewed research paper and presentation, Productions and Operation Management Conference, San Francisco, April 2002.

With A. Johnson. "Doubly Truncated Normal Distribution." Proceeding POMS, April 2002, San Francisco.

With B. Allen. "Optimization of Batch Assembly." Stuart School Web Page, May 2000.

- With B. Allen. "Optimizing Batch Assembly with Uncertainty." In Proceedings, Decision Sciences, 2000.
- With M. Jantaravareerat. "Tables on the Standard Standard Bivariate Normal Distribution." Stuart School Web Page, May 1998.
- With M. Jantaravareerat. "Some New Tables for the Standard Bivariate Normal Distribution." In Proceedings of Interface98, May 1998.
- With P. Krishnamoorthy. "Multiple Regression Modeling of Steel Characteristics vs. Processing Variable—Part I." In Proceedings, Decision Sciences, 1997.
- With G. Lentz. "Expert System for Service Parts Initial Order Quantities." In Proceedings, Decision Sciences, 1996.
- "Initial Order Quantities." Presented at Decision Sciences Conference, South Bend, March, 1996.
- "Modeling of Steel Characteristics." Presented at Decision Sciences Conference, Atlanta, February, 1996.
- With R. Warren. "Forecasting Adjustments Using Advance Demands." Liber Amicron, Antwerpen, Belgium, Spring 1995.
- With A. Longinow. "The Bivariate Log Normal Probability Distribution." Journal of Structural Engineering, Vol. 110, No. 12, December, 1984.
- With A. Longinow and Mohammadi. "Reliability of Basements as Shelters." Advances in Engineering Mechanics, May, 1983.
- With A. Longinow and Chu. "Probability of Survival In a Blast Environment." Journal of Civil Engineering, September, 1982.
- With P. Pantumsinchai. "A Joint Ordering Inventory Policy." Presented at TIMS-ORSA Conference, San Diego, California, October, 1982.
- "Regional Forecasting Models." Presented at TIMS-ORSA Conference, San Diego, California, October, 1982.
- "Multiregional Forecasting Models." Presented at International Forecasting Conference, Quebec, Canada, May, 1981.
- "Forecast Errors in Seasonal Forecasting Models." Presented at International Forecasting Conference, Quebec, Canada, May, 1981.

- "The Bi-Lognomal Probability Distribution." IITRI Research Publication, February, 1981.
- With D. Bammi. "A Predictive Model for the Police Response Function." Operations Research Quarterly, Vol. 26, No. 2, April, 1976.
- With B. Marks and R. Janc. "A Preemptive Priority Radio Net Queueing Model." In IEEE Transactions on Communications, Vol. 23, No. 11, November, 1975.
- With T. Knowles. "Use of Linear Programming in Cam Design." International Journal of Machine Tool Design and Research, Vol. 15, No. 4, December, 1975.
- With R. Janc and B. Marks. "A Queueing Model for Radio New-Validation and Refinement." In IEEE Transactions on Communications, Vol. 22, No. 2, February, 1974.
- With R. Janc, B. Marks, and P. McManamon. "On Communications and Queueing Theory Method." In IEEE Transactions on Communications, Vol. 21, No. 1, January, 1973.
- With R. Janc, B. Marks, and P. McManamon. "On Communications and Queueing Theory Results." In IEEE Transactions on Communications, Vol. 21, No. 1, January, 1973.
- With R. Janc and B. Marks. "A Queueing Analysis of Tactical Radio Communications with Multiple Access-Discrete Address Capability." Military Operations Research Journal, July, 1972.
- With R. Janc, B. Marks, and P. McManamon. "Mobile Radio Communications and Queueing Theory." In International Symposium on Communications Transactions, June, 1972.
- "Mixed-Model Line Balancing with Smoothed Station Assignments." Management Science, May, 1970.
- With M. Lehman. "The Mixed-Model Learning Curve." In AIIE Transactions, June 1969.
- "Some Analytical Approaches to Assembly Problems." Production Engineer, July, 1968.
- "Line Balancing-Sequencing for Mixed-Model Assembly." Management Science, October, 1967.

Applied Scholarship

“Supplier Lateness, Safety Time and Service Level”, Stuart School Lecture Series, IIT Downtown Campus, January 2007.

“Supply Chain Applications”, M-Focus Seminar, Bangkok, Thailand, December 2006.

“Supply Chain Applications”, Unity Seminar, Taipei, Taiwan, November, 2005.

“Computer applications in Forecasting and Inventory Replenishments.” Stuart School Lecture Series, IIT Downtown Campus, September 2002.

With M. Jantaravareerat. “Some New Tables for the Standard Bivariate Normal Distribution.” Presented at Interface98, Minneapolis, May 1998.

“New Frontiers in Inventory Management.” Presented at Operations Management Seminar, University of Illinois Chicago, April 1998

“Some Forecasting and Inventory Applications.” Presented at INFORMS Chicago Meeting, 1996.

“Reusable Inventory and Applications.” Presented at American Software Conference, Atlanta, 1994.

“Advance Methods in Production Forecasting.” Presented at American Software Conference, Atlanta, 1993.

With A. Rodriguez. “Forecasting Demand Using Surrogate Information.” Presented at Decision Sciences Conference, San Antonio, March 1992.

With Al-Jabri. “A Framework for Forecasting Technique Selection.” Presented at Decision Sciences, Miami, 1991, published in Decision Lines Proceedings, November 1991.

With N. Boundaoui. “Top-Down & Bottom-Up Forecasts.” Presented at Decision Sciences, Indianapolis, published in Decision Lines Proceedings, November 1991.

With N. Boundaoui. “Comparing Macro and Micro Forecasts.” Presented at Decision Sciences, Indianapolis, published in Decision Lines Proceedings, May 1991.

“Knowledge Acquisition with Statistical Methods.” Issues, Vol. 8, No. 3, Fall 1990.

“Inventory Forecasting.” Presented at Chicago Chapter of ORSA Meeting, Chicago, Illinois, May, 1987.

“Regional Forecasting.” Chapter in Methods of Forecasting, Graceway Publishing Co., 1985.

- “Regional Demand Patterns.” Chapter 43 in Understanding Business Forecasting. Edited by Migliaro and Jain. New York: Graceway Publishing Co., 1985.
- “Regional Forecasting Models.” Business Forecasting Journal, Vol. 1, No. 3, 1982.
- “A Synopsis on Forecasting Methods.” APICS/PD, Vol. 1, No. 3, September-October, 1980.
- “Computer Methods of Forecasting and Inventory.” Seminar for Dresser, Broadview, Illinois, January, 1987.
- “Tutorial on Adaptive Forecasting.” Presented at American Institute on Decision Sciences, Dayton, Ohio, April, 1980.
- With C. Laakso. “The Service Level Function for the Multi-Warehouse Inventory Model.” American Production and Inventory Control Society Journal, Second Quarter, 1979.
- “Productivity and Forecasting.” Manufacturing Productivity Frontiers, Vol. 3, No. 10, October, 1979.
- With C. Laakso. “Productivity in a Multi-Location Inventory System.” Manufacturing Productivity Frontiers, Vol. 2, No. 12, December, 1978.
- “Applied Forecasting Methods.” Presented at APICS Chapter, Fort Wayne, Indiana, November, 1978.
- Book Review on “Interactive Forecasting by Makridakis and Wheelwright”, Manufacturing Productivity Frontiers, Vol. 1, No. 9, September, 1977.
- “A Survey of Forecasting Methods.” Presented at APICS Conference, Arlington Heights, Illinois, April, 1976.
- With A. Longinow. “Structural Risk Analysis in Robot Design.” In Proceedings of the International Symposium on Industrial Robots, Vol. 15, No. 4, December, 1975.
- “Queueing Analysis of Multi-Channel Voice Tactical Nets.” Invited speaker - National ORSA-TIMS Conference, Las Vegas, Nevada, November, 1975, co-authors R. Janc and B. Marks.
- With A. Longinow. “Structural Risk Analysis in Robot Design.” American Society of Civil Engineers, August, 1974.
- “Predictive Model for Police Response Function.” Presented at National Operations Research Society of America Conference, Milwaukee, Wisconsin, May, 1973.

- “Tutorial of Time Series Forecasting Methods.” Presented at Operations Research Society of America, Chicago, Illinois, September, 1973.
- “Calculating Productivity on Assembly Oriented Machines.” Presented at Seminar on Topics in Modern Machine Design, Madison, Wisconsin, May, 1972.
- “Management Science in Assembly.” Presented at Milwaukee Chapter of TIMS and ORSA, Milwaukee, Wisconsin, June, 1972.
- With H. Schwartzbart, C.T. Young, and C.R. Maibish. “Residual Stresses and Surfaces Finish in the Grinding of Several Metals.” In Proceedings of the 1972 International Engineering Conference, Chicago, Illinois, April, 1972.
- “An Analytical Diagnosis of Uncertainty in Mathematical Models.” Submitted to Technometrics.
- “Computerized Approaches to Assembly Line Problems.” In Proceedings of the 1972 Annual Numerical Control Society, Chicago, Illinois, April, 1972.
- “Effects of Obsolescence and Uneven Demand on Optimal Lot Sizes.” Association for Production and Inventory Control, Fourth Quarter, 1971.
- “Some Analytical Considerations in Semi-Automated Assembly Lines.” In Proceedings of the First National Symposium of Industrial Robots, Chicago, Illinois, May, 1970.
- “Selecting the Sample Size When Estimating Proportions.” Special Report MRMLSR-2, John Crerar Library, April, 1970.
- “Quelques Approches Analytiques Sur les Problemes de Chines D’assemblage Montage.” L’Etude Du Travail, April, 1969.
- “Managing Inventories.” Presented at American Management Association Seminar, Chicago, Illinois, March, 1968.
- “Measurement of the Stochastic Nature of Mathematical Models Through Simulation.” Presented at American Statistical Association Conference, Chicago, Illinois, March, 1968.
- “Line Balancing and Sequencing Procedures for Mixed-Model Assembly Lines.” Presented at Operations Research Society and America, Chicago Chapter, March, 1967.

Instructional Development

Strategic Inventory Management and Planning. Carol Stream, Illinois: Hitchcock Publishing Co., 1990

Problem and Answer Workbook for: Strategic Inventory Management and Planning. Carol Stream, Illinois: Hitchcock Publishing Co., 1990

Applied Forecasting Methods. Englewood Cliffs, New Jersey: Prentice Hall, Inc., 1980.

Answer Book for: Applied Forecasting Methods. Englewood Cliffs, New Jersey: Prentice Hall, Inc., 1980.

With Ted Prenting. Assembly Line Systems. New York: Hayden Publishing Company, 1974.

Research Support/Grants

Research project on designing police beat configurations, 1972

Professional Activities

- 2005 M-Focus, Bangkok Thailand, Developed 4 hour training video on Forecasting and Replenish methods.
- 2005 Unity Systems, Taipei, Taiwan, Training of employees on Supply Chain control with Forecasting and Replenishment.

The FIRM Guides below are used by Forecasting-Inventory-Consultants for distribution to their customers.

- 2006 Author FIRM Guide for Weekly Forecast Routine
- 2005 Author FIRM Guide for Master Production Scheduling Routine
- 2004 Author FIRM Guide for OPOL Routine
- 2003 Author FIRM Guide for Menus and DataBase
- 2003 Author FIRM Guide for Auxiliary Routines
- 2003 Author FIRM Guide for Forecast-Replenish Routine

1995-2007 Consultant, Navistar International, International Truck and Engine Corporation

Advisor to the export management on controlling the inventory at the export dealers around the globe.
Developer and advisor on the Forecast-Replenish routines used in the domestic dealers.

Author of the 200 page training manual “DRP User’s Manual” for Navistar’s North American service parts operation. The contents describes the distribution system, demand history and filtering, forecasting, inventory replenishments, daily monitoring of inventory status, allocation of new stock and transfer of stock among the locations. Developed most of the production forecast and replenish computer routines for Navistar.

Prepared and gave training to inventory personnel in fourteen two-hour sessions held twice a week for seven weeks. Six video tapes were developed for employee training.

1994-1995 Consultant, Colonial Hospital Supply

Developed inventory control system.

1993-2007 Consultant, Forecasting and Inventory Consultants, Inc.

Developed methodology and software that generates forecasts and determines all the replenish needs for part numbers for software firm catering to industry.

1992-1994 Consultant, Chiapetta-Welch Engineers

Performed statistical analysis on engineering data. Also a simulation sensitivity analysis.

1990-1992 Consultant, Mann-Roland

Developed forecasting and inventory control system.

1990-1991 Consultant, Wheelabrator Frye

Developed production scheduling method.

1985-1990 Consultant, Baxter Travenol

Developed statistical analysis on their data.

1980-1994 Consultant, Wrigley Company

Developed forecasting method using promotion data.

1980-1990 Consultant, Komatsu Dresser

Developed forecasting and inventory system.

1975-1990 Consultant, Florsheim Shoe Company

Developed Production scheduling system, distribution system, and retail inventory system.

1970-1980 Consultant, Motorola Corporation

Developed forecasting and inventory replenishment system.

Technical Presentations:

“Some Software tools used along the Supply Chain”, Stuart Schol Lecture Series, IIT Downtown Campus, March, 2005.

“Tables on the Standard Univariate and Bivariate Log Normal Distribution”, Stuart School Lecture series, IIT Downtown Campus, May 2004.

“Advanced Forecasting and Inventory Management.” IIT Center for Professional Development, Rice Campus, September 2002.

“Forecasting and Inventory Management.” Hellenic American Union, Athens, Greece, June 2002.

“Demands Along the Supply Chain, Independent or Dependent.” Proceedings of Business & Behavioral Sciences, April 2001, Las Vegas.

“Knowledge Acquisition with Statistical Methods.” Knowledge Acquisition: Practical Tools and Techniques, Boston Hynes Center, July, 1990.

“Statistical Methods of Evaluating Advertising Expenditures.” Presented at Florsheim Luncheon Meeting, Chicago, Illinois, September, 1986.

“Forecasting for Inventory,” Luncheon Speaker to Interco, St. Louis, Missouri, January, 1984.

“Uses and Misuses of Statistics.” Presented at Nondestructive Testing Conference, University of Illinois, March, 1979.

“Some Useful Forecasting Techniques.” Presented at Manufacturing Productivity Center, Rosemont, Illinois, November, 1979.

“Applied Forecasting Methods.” Presented at Stuart School Alumni Conference, IIT Campus, November, 1979.

“State of the Art in Assembly Systems.” Presented at IIT Symposium, April, 1977.

- “Research Applications in Statistics.” Presented at Sigma XI Chapter at Argonne Laboratory, Lemont, Illinois, May, 1977.
- “Quantitative Methods in Assembly.” Presented at Merist Institute of Higher Learning, New York, May, 1976.
- “Structural Risk Analysis in Robot Design.” Presented at Fifth International Conference on Industrial Robots, co-author A. Longinow, Chicago, Illinois, September, 1975.
- “Forecasting Methods Using Moving-Averages, Exponential Smoothing, Adaptive Smoothing and Box-Jenkins.” Four Week Workshop for American Statistical Association, Chicago, Illinois, October-November, 1972.
- “What’s Going on in Operations Research.” Presented at Hellenic Professional Society, Chicago, Illinois, February, 1970.
- “Forecasting Techniques for Industry.” Presented at Industrial Engineering Symposium of University of Illinois, January, 1970.
- “Quantitative Methods in Assembly and Production Control.” Presented at Japanese Society for Promotion of Machinery, Tokyo, Japan, August, 1970.
- “A Survey on Production Control Systems.” Presented at Computer Society of Moraine Valley College, November, 1970.
- “Simulation.” Presented at Federal Government Symposium on Operations Research, Chicago, Illinois, May, 1969.
- “Operations Research for the Common Man.” Presented at Data Processing Machinery Association, West Suburban Chapter, November, 1969.
- “Applications in Regression Analysis.” Presented at IITRI’s 1968 Statistical Seminar, Chicago, Illinois, July, 1968.
- “Analytical Methods in Assembly.” Presented at Swedish Association of Metal Working Industries, Stockholm, Sweden, May, 1967.
- “The Mixed-Model Sequencing Problem.” Presented at Association for Computing Machinery, Michigan-Indiana Chapter, September, 1966.
- “Computer Line Balancing.” American Institute of Industrial Engineers, Presented at the Fort Wayne, Indiana Chapter, March, 1965.
- “Management Simulations.” Systems and Procedures Association, Presented at the Fort Wayne, Indiana Chapter, November, 1965.

“A Line Balancing Procedure.” Proceedings of the Chicago Chapter of the American Institute of Industrial Engineers - Fall Conference, Chicago, Illinois, December, 1965.

Professional Honors, Listings, and Awards

Best Paper Award, The 2006 Clute Conference, Las Vegas 2006 (Co-author M. Jance)

Distinguished Professor Award, IIT Asian Alumni Association, Bangkok, Thailand, December, 2006.

Best Paper Award, The 2005 IBER and TLC Conference, Las Vegas, 2005 (Co-author R. Abuizam).

Stuart School of Business “Outstanding Teacher Award”, 1993

Recipient, David A. Rist Prize for best paper presented at the 1972 Military Operations Research Society Conference, Boulder Colorado, 1972. (Co-authors: R. Janc and B. Marks.)

Professional Societies

Sigma Xi (Scientific Honorary) IIT Officer 1980-84

Pi Mu Epsilon (Mathematics Honorary)

Tau Beta Pi (Engineering Honorary)

Alpha Pi Mu (Industrial Engineering Honorary) IIT Faculty Advisor 1970-1985

Honors Students IIT Faculty Advisor 1970-1985

Operations Research Society of America, 1970-1990
Conference Chair, “Assembly Methods,” National ORSA/TIMS Conference, 1977.
Conference Chair, “OR Applications in Manufacturing,” National ORSA/TIMS Coonference, 1975.

Institute of Management Sciences, 1970-1990

American Institute of Industrial Engineers, 1970-1990

American Production and Inventory Control Society, 1980-1998

Interface98, Chair “Economics and Testing Session,” Minneapolis, May 1998

Civic and Community Activities

IIT Greek Club Faculty Advisor, 1970-1980

Chairman School Board, Plato Grammar School, 1980-1982

Board of Directors, Oak Brook - Brook Forest Home Owners Association, 1978-1981

Chair, Fathers Committee, Assumption Greek Orthodox Church, 1975-1978

Sergeant, U.S. Army, 1953-1955