







PERSONAL INFORMATION

Chris T. Kiranoudis



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 skype chris.kiranoudis

Sex Male | Date of birth 14/04/1966 | Nationality Greek

WORK EXPERIENCE

1997 - present

Professor (2012 – present)

School of Chemical Engineering, Department of Process Analysis & Systems Design, National Technical University, Athens, Greece

▪ As. Professor (2008), Ass. Professor (2001), Lecturer (1997)

Business or sector University

EDUCATION AND TRAINING

1992

Doctoral Diploma in Engineering

National Technical University of Athens,  
School of Chemical Engineering

1988

Diploma in Engineering

National Technical University of Athens,  
School of Chemical Engineering

PERSONAL SKILLS

Mother tongue(s)

Greek

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1/2	C1/2	C1/2	C1/2	C1/2
Replace with name of language certificate. Enter level if known.					
French	B1/2	B1/2	B1/2	B1/2	B1/2
Replace with name of language certificate. Enter level if known.					

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user  
Common European Framework of Reference for Languages

FIELDS OF EXPERTISE

Process Design and Mathematical Programming, Modeling and Model Building, Computer Aided Simulation & Computer Applications, Computational Fluid Mechanics, Process Control, Combinatorial Optimization and Metaheuristics, Artificial Intelligence & Machine Learning for Classification & Regression

AREAS OF EXPERTISE

Food Engineering, Hydrometallurgy, Renewable Energy Sources, Energy and Environment in Buildings, Routing, Scheduling, Production Planning, Location, Remote Sensing, Pattern Recognition, Crisis Management for Civil Protection Applications, Environmental Planning and Management

## GUEST EDITOR

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Journal of Food Engineering, Special Issue: Operational Research and Food Logistics (with C.D. Tarantilis)

Mathematical Problems in Engineering, Special Issue: Planning and Scheduling of Production and Distribution Logistics, (with P.O.Repoussis)

## CONFERENCE COMMITTEE

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ODYSSEUS 2012, 5th International Workshop on Freight Transportation and Logistics, May 21-25, Mykonos, Greece

## DISTINCTIONS

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Best Reviewer Award 2012 in recognition of significant contribution to the Journal, European Journal of Operational Research, Elsevier (Prof. Roman Slowinski, Co-Ordinating Editor).

REVIEWER OF  
INTERNATIONAL PROPOSALS

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Research Grants Council of Hong Kong (2004)

The Portuguese Foundation for Science and Technology (2012)

University of California, Berkeley (2014)

Swiss National Science Foundation (2014)

## ACTING JOURNAL REVIEWER

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Advances in Engineering Software, AIChEJ, Applied Energy, Applied Mathematical Modelling, Canadian Journal of Chemical Engineering, Chemical Engineering Communications, Chemical Engineering Journal, Chemical Engineering Research & Design, Computers & Chemical Engineering, Computers & Industrial Engineering, Computers & Operational Research, Computational Intelligence, Drying Technology, Energy & Buildings, European Journal of Operational Research, Food and Bioprocess Technology, Food and Bioproducts Processing, IEEE Journal of Intelligent Systems, IEEE Transactions on Parallel and Distributed Systems, Industrial & Engineering Chemistry Research, Industrial Crops & Products, International Journal for Numerical Methods in Fluids, International Journal of Artificial Intelligence, International Journal of Multiple Criteria Decision Making, International Journal of Numerical Methods for Heat and Fluid Flow, International Journal of Production Economics, Journal of Cleaner Production, Journal of Food Engineering, Journal of Hazardous Materials, Journal of Operational Research Society, Journal of Optimization Theory and Applications, Journal of Scheduling, Mathematical and Computer Modelling, Omega, Operational Research. An International Journal, Optimization Letters, OR Spectrum, Remote Sensing, Sensors, Simulation Modelling Practice and Theory, Transportation Research Part C, Transportation Research Part E

## ANNEXES

**PUBLICATIONS****1. Book Chapters**

C.D.Tarantilis and C.T.Kiranoudis, Risk Logistics in Banking Management, In: New trends in banking management, (ed. C. Zopounidis), Physica-Verlag (2001)

I.Maglogiannis, E.Zafropoulos and C.T.Kiranoudis, Intelligent Segmentation and Classification of Pigmented Skin Lesions in Dermatological Images, In: Lecture Notes in Computer Science, Vol 3955 (ed. G.Antoniou et al.), Springer Verlag (2006)

P.S.Georgiadou, I.A.Papazoglou, C.T.Kiranoudis and N.C.Markatos, Multi Objective Emergency Response Optimization around Chemical Plants, In: Multi Objective Optimization, (ed. G.P. Rangaiah), World Scientific (2009)

P.O.Repoussis and C.T.Kiranoudis, Mixed Integer Nonlinear Programming: Applications to Food Dehydration and Deep Chilling, In: Optimization in Food Engineering (ed.F. Erdogdu), CRC Press (2009)

**2. Scientific Journal Articles**

C.T.Kiranoudis, Z.B.Maroulis and D.Marinos-Kouris, Mass transfer modelling for Virginia tobacco curing, *Drying Technology*, 8, 351-366 (1990)

Z.B.Maroulis, C.T.Kiranoudis and D.Marinos-Kouris, Simultaneous estimation of heat and mass transfer coefficients in externally controlled drying, *Journal of Food Engineering*, 14, 241-255 (1991)

C.T.Kiranoudis, Z.B.Maroulis and D.Marinos-Kouris, Drying kinetics of onion and green pepper, *Drying Technology*, 10, 995-1011 (1992)

C.T.Kiranoudis, Z.B.Maroulis and D.Marinos-Kouris, Model selection in air drying of foods, *Drying Technology*, 10, 1097-1106 (1992)

C.T.Kiranoudis, Z.B.Maroulis, E.Tsami and D.Marinos-Kouris, Equilibrium moisture content and heat of desorption of some vegetables, *Journal of Food Engineering*, 20, 55-74 (1993)

C.T.Kiranoudis, J.Dimitratos, Z.B.Maroulis and D.Marinos-Kouris, State estimation in batch drying of foods, *Drying Technology*, 11, 1053-1069 (1993)

C.T.Kiranoudis, Z.B.Maroulis and D.Marinos-Kouris, Mass transfer model building in drying, *Drying Technology*, 11, 1251-1270 (1993)

C.T.Kiranoudis, Z.B.Maroulis and D.Marinos-Kouris, Modeling and optimization for design under production planning criteria in multiproduct dehydration plants, *Drying Technology*, 11, 1271-1292 (1993)

C.T.Kiranoudis, Z.B.Maroulis and D.Marinos-Kouris, Production planning for multiproduct dehydration plants, *Applied Mathematical Modelling*, 18, 58-71 (1994)

C.T.Kiranoudis, Z.B.Maroulis and D.Marinos-Kouris, An integrated computer-based dryer simulator, *Computers and Chemical Engineering*, 18, 265-269 (1994)

C.T.Kiranoudis, Z.B.Maroulis and D.Marinos-Kouris, Modeling and design of conveyor belt dryers, *Journal of Food Engineering*, 23, 375-396 (1994)

C.T.Kiranoudis, Z.B.Maroulis and D.Marinos-Kouris, Simulation of drying processes: an integrated computer-based approach, *Chemical Engineering Research and Design*, 72, 307-315 (1994)

C.T.Kiranoudis, Z.B.Maroulis and D.Marinos-Kouris, Dynamic simulation and control of conveyor belt dryers, *Drying technology*, 12, 1575-1603 (1994)

C.T.Kiranoudis, E.Tsami, Z.B.Maroulis and D.Marinos-Kouris, Experimental determination of air drying characteristics of foods, *Dirasat*, 22, 351-366 (1995)

C.T.Kiranoudis, Z.B.Maroulis and D.Marinos-Kouris, Design and production planning of multi-product dehydration plants, *Computers and Chemical Engineering*, 19, 581-606 (1995)

C.T.Kiranoudis, Z.B.Maroulis and D.Marinos-Kouris, Heat and mass transfer model building in drying with multiresponse data, *International Journal of Heat and Mass Transfer*, 38, 463-480 (1995)

Z.B.Maroulis, C.T.Kiranoudis and D.Marinos-Kouris, Heat and mass transfer modeling in air drying of foods, *Journal of Food Engineering*, 26, 113-130 (1995)

- C.T.Kiranoudis, G.V.Bafas, Z.B.Maroulis and D.Marinos-Kouris, MIMO control of conveyor belt drying chambers, *Drying Technology*, 13, 73-97 (1995)
- C.T.Kiranoudis, T.Kritikos, Z.B.Maroulis and D.Marinos-Kouris, Process integrated simulator for metallurgical applications, *Dirasat*, 23, 183-190 (1996)
- C.T.Marinos-Kouris, Z.B.Maroulis, C.T.Kiranoudis, Computer Simulation of Industrial Dryers, *Drying Technology*, 14, 971-1010 (1996)
- C.T.Kiranoudis, Z.B.Maroulis and D.Marinos-Kouris, Drying of Solids: Selection of some continuous operation dryer types, *Computers and Chemical Engineering*, 20, 177-182 (1996)
- C.T.Kiranoudis, Z.B.Maroulis, D.Marinos-Kouris and M. Tsampanlis, Modeling and optimization of a tunnel grape dryer, *Drying Technology*, 14, 1695-1718 (1996)
- C.T.Kiranoudis, Z.B.Maroulis and D.Marinos-Kouris, Design and operation of convective industrial dryers, *AIChEJ*, 42, 3030-3040 (1996)
- C.T.Kiranoudis, N.G.Voros and Z.B.Maroulis, Wind energy exploitation for reverse osmosis desalination plants, *Desalination*, 109, 195-209 (1996)
- C.T.Kiranoudis, Z.B.Maroulis and D.Marinos-Kouris, Modeling and optimization of fluidized bed and rotary dryers, *Drying Technology*, 15, 1399-1418 (1997)
- C.T.Kiranoudis, E.Tsami, Z.B.Maroulis and D.Marinos-Kouris, Drying kinetics of some fruits, *Drying Technology*, 15, 735-763 (1997)
- C.T.Kiranoudis and Z.B.Maroulis, Effective short-cut modelling of wind park efficiency, *Renewable Energy*, 11, 439-457 (1997)
- C.T.Kiranoudis, Z.B.Maroulis, D.Marinos-Kouris and M.Tsampanlis, Design of tray dryers for food dehydration, *Journal of Food Engineering*, 32, 269-291 (1997)
- C.T.Kiranoudis, N.G.Voros, T.Kritikos, Z.B.Maroulis, D.Marinos-Kouris, N.Papassiopi, O.Dimitropoulou, I.Paspaliaris and A.Kontopoulos, Object oriented simulation of hydrometallurgical processes, Part I: Requirements and implementation, *Metallurgical and Materials Transactions*, 28, 777-784 (1997)
- C.T.Kiranoudis, N.G.Voros, T.Kritikos, Z.B.Maroulis, D.Marinos-Kouris, N.Papassiopi, O.Dimitropoulou, I.Paspaliaris and A.Kontopoulos, Object oriented simulation of hydrometallurgical processes, Part II: Application to the bayer process, *Metallurgical and Materials Transactions*, 28, 785-794 (1997)
- C.T.Kiranoudis, N.G.Voros, T.Kritikos, Z.B.Maroulis, D.Marinos-Kouris, N.Papassiopi, O.Dimitropoulou, I.Paspaliaris and A.Kontopoulos, Object oriented simulation of hydrometallurgical processes, Part III: Application to leaching of laterites and pyrites, *Metallurgical and Materials Transactions*, 28, 795-804 (1997)
- C.T.Kiranoudis, E. Tsami and Z.B.Maroulis, Microwave vacuum drying kinetics of some fruits, *Drying Technology*, 15, 2421-2440 (1997)
- C.T.Kiranoudis, Z.B.Maroulis, N.Papassiopi, I.Paspaliaris, Modelling and optimization of carbon-in-pulp gold recovery processes, *IMA Journal of Mathematics Applied in Business and Industry*, 9, 35-54 (1998)
- C.T.Kiranoudis, Design of batch grape dryers, *Drying Technology*, 16, 141-162 (1998)
- C.T.Kiranoudis, Design and operational performance of conveyor-belt drying structures, *Chemical Engineering Journal*, 69, 27-38 (1998)
- N.G.Voros, C.T.Kiranoudis and Z.B.Maroulis, Solar energy exploitation for reverse osmosis desalination plants, *Desalination*, 115, 83-101 (1998)
- D.Marinos-Kouris, Z.B.Maroulis and C.T.Kiranoudis, Modeling, Simulation and Design of Convective Industrial Dryers, *Drying Technology*, 16, 993-1026 (1998)
- C.T.Kiranoudis and N.C.Markatos, Computer analysis of industrial batch dryer aerodynamics, *Drying Technology*, 16, 1283-1304 (1998)
- N.G.Voros, C.T.Kiranoudis and D.Marinos-Kouris, Greek Refinery uses Data Reconciliation to Calibrate Instruments, *Oil and Gas Journal*, 1, 33-36 (1999)
- C.T.Kiranoudis, V.T.Karathanos and N.C.Markatos, Computational Fluid Dynamics of Industrial Batch Dryers of Fruits, *Drying Technology*, 17, 1-26 (1999)
- C.T.Kiranoudis and N.C.Markatos, Design of tray tunnels for food deep chilling, *Journal of Food Engineering*, 40, 35-46 (1999)
- C.T.Kiranoudis, M.K.Krokida and Z.B.Maroulis, Thermocompressor Design for Efficient Energy Recovery of Paper Production Plant Dryers, *Drying Technology*, 17, 1065-1081 (1999)

- C.T.Kiranoudis, Z.B.Maroulis and D.Marinos-Kouris, Product quality multi-objective dryer design, *Drying Technology*, 17, 2251-2270 (1999)
- C.I.Siettos, C.T.Kiranoudis and G.V.Bafas, Advanced control strategies for fluidized bed dryers, *Drying Technology*, 17, 2271-2291 (1999)
- M.K.Krokida, C.T.Kiranoudis and Z.B.Maroulis, Viscoelastic behavior of dehydrated products during rehydration, *Journal of Food Engineering*, 40, 269-277 (1999)
- K.A.Papakonstantinou, C.T.Kiranoudis and N.C.Markatos, Computational investigation of ventilation effectiveness in a paper drying industry, *Drying Technology*, 18, 2051-2064 (2000)
- C.T.Kiranoudis and N.C.Markatos, Pareto design of conveyor-belt dryers, *Journal of Food Engineering*, 46, 145-155 (2000)
- M.K.Krokida and C.T.Kiranoudis, Product quality multi-objective optimization of fluidized bed dryers, *Drying Technology*, 18, 143-163 (2000)
- M.K.Krokida and C.T.Kiranoudis, Pareto design of fluidized bed dryers, *Chemical Engineering Journal*, 79, 1-12 (2000)
- K.A.Papakonstantinou, C.T.Kiranoudis and N.C.Markatos, Computational analysis of thermal comfort. The case of the archaeological museum of Athens, *Applied Mathematical Modelling*, 24, 477-494 (2000)
- S.P.Kourniotis, C.T.Kiranoudis and N.C.Markatos, Statistical analysis of domino chemical accidents, *Journal of Hazardous Materials*, 71, 239-252 (2000)
- C.T.Kiranoudis, N.G.Voros and Z.B.Maroulis, Short-cut design of small hydroelectric plants, *Renewable Energy*, 19, 545-563 (2000)
- K.A.Papakonstantinou, C.T.Kiranoudis and N.C.Markatos, Mathematical modeling of environmental conditions inside historical buildings. The case of the archaeological museum of Athens, *Energy and Buildings*, 31, 211-220 (2000)
- C.T.Kiranoudis, Object-oriented tools for distributed software systems handling database stored process data, *Systems Analysis – Modelling - Simulation*, 36, 485-508 (2000)
- C.G.Raptis, C.I.Siettos, C.T.Kiranoudis and G.V.Bafas, Classification of aged wine distillates using fuzzy and neural network systems, *Journal of Food Engineering*, 46, 267-275 (2000)
- M.K.Krokida, C.T.Kiranoudis, Z.B.Maroulis and D.Marinos-Kouris, Effect of Pretreatment on Color of Dehydrated Products, *Drying Technology*, 18, 1239-1250 (2000)
- M.K.Krokida, C.T.Kiranoudis, Z.B.Maroulis and D.Marinos-Kouris, Drying related properties of apple, *Drying Technology*, 18, 1251-1267 (2000)
- K.A.Papakonstantinou, C.T.Kiranoudis and N.C.Markatos, Numerical simulation of Volatile Organic Compounds evaporation in closed spaces, *Drying Technology*, 18, 2203-2216 (2000)
- K.A.Papakonstantinou, C.T.Kiranoudis and N.C.Markatos, Numerical simulation of air flow field in single-sided ventilated buildings, *Energy and Buildings*, 33, 41-48 (2000)
- S.P.Kourniotis, C.T.Kiranoudis and N.C.Markatos, A systemic approach to effective chemical accident management, *Safety Science*, 38, 49-61 (2001)
- C.T.Kiranoudis, N.G.Voros and Z.B.Maroulis, Short-cut design of wind farms, *Energy Policy*, 29, 567-578 (2001)
- C.T.Kiranoudis, N.C.Markatos, Integrating GIS and RDBMS technologies for managing major chemical industrial accidents, *Systems Analysis – Modelling – Simulation*, 40, 63-86 (2001)
- C.D.Tarantilis and C.T.Kiranoudis, A meta-heuristic algorithm for the efficient distribution of perishable foods, *Journal of Food Engineering*, 50, 1-9 (2001)
- C.D.Tarantilis and C.T.Kiranoudis, An efficient meta-heuristic algorithm for routing product collecting vehicles of dehydration plants. I. Algorithm development, *Drying Technology*, 19, 965-986 (2001)
- C.D.Tarantilis and C.T.Kiranoudis, An efficient meta-heuristic algorithm for routing product collecting vehicles of dehydration plants. II. Algorithm performance and case studies, *Drying Technology*, 19, 987-1004 (2001)
- C.D.Tarantilis and C.T.Kiranoudis, Using the Vehicle Routing Problem for the Transportation of Hazardous Materials, *Operational Research*, 1, 67-78 (2001)
- C.T.Kiranoudis, S.P.Kourniotis, M.Christolis, N.C.Markatos, K.G.Zografos, I.M.Giannouli, K.N.Androutsopoulos, I.Ziomas, E. Kosmidis, P. Simeonidis and N. Poupkou, An operational center for managing major chemical industrial accidents, *Journal of Hazardous Materials*, 89, 141-161 (2002)
- K.A.Papakonstantinou, C.T.Kiranoudis and N.C.Markatos, Numerical simulation of CO<sub>2</sub> dispersion in an auditorium, *Energy and Buildings*, 34, 245-250 (2002)

- C.D.Tarantilis and C.T.Kiranoudis, Using a Spatial Decision Support System for solving the Vehicle Routing Problem, *Information and Management*, 39, 359-375 (2002)
- C.D.Tarantilis, C.T.Kiranoudis and N.C.Markatos, Use of the BATA algorithm and MIS to solve the mail carrier problem, *Applied Mathematical Modelling*, 26, 481-500 (2002)
- C.D.Tarantilis and C.T.Kiranoudis, A modern local search method for operations scheduling of dehydration plants, *Journal of Food Engineering*, 52, 17-23 (2002)
- C.D.Tarantilis and C.T.Kiranoudis, Scheduling the operations of dehydration plants, *International Journal of Production Economics*, 77, 159-171 (2002)
- C.D.Tarantilis and C.T.Kiranoudis, Distribution of fresh meat, *Journal of Food Engineering*, 51, 85-91 (2002)
- C.D.Tarantilis and C.T.Kiranoudis, A threshold accepting metaheuristic method for scheduling the operations of dehydration plants, *Drying Technology*, 20, 1143-1160 (2002)
- C.D.Tarantilis, C.T.Kiranoudis and V.S.Vassiliadis, A Backtracking Adaptive Threshold Accepting metaheuristic method for the Vehicle Routing Problem, *Systems Analysis Modeling and Simulation*, 42, 631-664 (2002)
- C.D.Tarantilis and C.T.Kiranoudis, A list based Threshold Accepting algorithm for the capacitated Vehicle Routing Problem, *International Journal of Computer Mathematics*, 79, 537-553 (2002)
- C.D.Tarantilis and C.T.Kiranoudis, BoneRoute: An adaptive memory-based method for effective fleet management, *Annals of Operations Research*, 115, 227-241 (2002)
- A. Skouloudis, C.D. Tarantilis and C.T. Kiranoudis, Business-To-Business E-Commerce and Marketing; Developing, Planning and Managing a B2B portal, *International Journal of Management*, 27, 4-8 (2002)
- C.D.Tarantilis, C.T.Kiranoudis and V.S.Vassiliadis, A list based threshold accepting metaheuristic for the heterogeneous fixed fleet vehicle routing problem, *Journal of the Operational Research Society*, 54, 65-71 (2003)
- N.Prindezis, C.T.Kiranoudis and D.Marinos-Kouris, A Business-To-Business management service provider for central food market enterprises, *Journal of Food Engineering*, 60, 203-210 (2003)
- N.A. Assimakopoulos, C.D. Tarantilis, A. Skouloudis, C.T. Kiranoudis, Use of internet technology for on-line CRM and e-logistics applications, *Journal of Applied Systems Studies*, 4(1) (2003)
- D.Vakalis, A.Alexandridis, H.Sarimveis, C.T.Kiranoudis and G.V.Bafas, A GIS based operational system for wildland fire crisis management I. Mathematical modelling and simulation, *Applied Mathematical Modelling*, 28, 389-410 (2004)
- D.Vakalis, A.Alexandridis, H.Sarimveis, C.T.Kiranoudis and G.V.Bafas, A GIS based operational system for wildland fire crisis management II. System Architecture and Case Studies, *Applied Mathematical Modelling*, 28, 411-425 (2004)
- E.Sambracos, J.Paravantis, C.D.Tarantilis and C.T.Kiranoudis, Dispatching of Small Containers via Coastal Freight Liners: The Case of the Aegean Sea, *European Journal of Operational Research*, 152, 365-381 (2004)
- C.D.Tarantilis, D.Diakoulaki and C.T.Kiranoudis, Combination of GIS and efficient routing algorithms for real life distribution-transportation operations, *European Journal of Operational Research*, 152, 437-453 (2004)
- G.Arampatzis, C.T.Kiranoudis, P.Scaloubacas and D.Assimacopoulos, A GIS based decision support system for planning urban transportation policies, *European Journal of Operational Research*, 152, 465-475 (2004)
- C.D.Tarantilis, C.T.Kiranoudis and V.S.Vassiliadis, A threshold accepting metaheuristic for the heterogeneous fixed fleet vehicle routing problem, *European Journal of Operational Research*, 152, 148-158 (2004)
- I.Keramitsoglou, C.T. Kiranoudis, H. Sarimveis and N. Sifakis, A multidisciplinary decision support system for forest fire crisis management, *Environmental Management*, 33, 212-225 (2004)
- C.D.Tarantilis, G.Ioannou, C.T.Kiranoudis and G.Prastacos, A threshold accepting approach to the open vehicle routing problem, *RAIRO. Recherche Opérationnelle*, 38, 345-360 (2004)
- C.D.Tarantilis and C.T.Kiranoudis, An adaptive memory programming method for risk logistics operations, *International Journal of Systems Science*, 35, 579-590 (2004)
- I.Keramitsoglou, H.Sarimveis, C.T.Kiranoudis, and N. Sifakis, Radial Basis Function neural networks classification using very high spatial resolution satellite imagery: An application to the habitat area of Lake Kerkini (Greece), *International Journal of Remote Sensing*, 26, 1861-1880 (2005)
- C.D.Tarantilis, G.Ioannou, C.T.Kiranoudis and G.Prastacos, Solving the open vehicle routing problem via a single parameter metaheuristic algorithm, *Journal of the Operational Research Society*, 56, 588-596 (2005)
- V.V. Petinis, C.D. Tarantilis and C.T. Kiranoudis, Warehouse sizing and inventory scheduling for multiple stock keeping products, *International Journal of Systems Science*, 36, 39-47 (2005)

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- K.El Raheb, C.T.Kiranoudis P.Repoussis and C.D.Tarantilis, Production scheduling with complex precedence constraints in parallel machines, *Computing and Informatics*, 24, 297-319 (2005)
- I.Keramitsoglou, C.Kartalis and C.T.Kiranoudis, A fuzzy classification system for automatic oil spill detection using SAR images, *Environmental Modelling and Software*, 21, 640-652 (2006)
- I.Keramitsoglou, H.Sarimveis, C.T.Kiranoudis, C.Kontoes, N.Sifakis and E.Fitoka, The performance of pixel window algorithms in the classification of habitats using VHSR imagery, *ISPRS Photogrammetry and Remote Sensing Journal*, 60, 225-238 (2006)
- M.Konstandinidou, Z.Nivolianitou, C.T.Kiranoudis and N.C.Markatos, A Fuzzy Modelling application of CREAM Methodology for human reliability analysis, *Reliability Engineering and System Safety*, 91, 706-716 (2006)
- M.Konstandinidou, Z.Nivolianitou, C.T.Kiranoudis and N.C.Markatos, Statistical analysis of incidents reported in the Greek Petrochemical Industry for the period 1997–2003, *Journal of Hazardous Materials*, 135, 1-9 (2006)
- M.Konstandinidou, Z.Nivolianitou, C.T.Kiranoudis and N.C.Markatos, Development of a database for accidents and incidents in the Greek petrochemical industry, *Journal of Loss Prevention in the Process Industries*, 19, 630-638 (2006)
- C.D. Tarantilis and C.T. Kiranoudis, A flexible adaptive memory-based algorithm for real-life transportation operations: Two case studies from dairy and construction sector, *European Journal of Operational Research*, 179, 806-822 (2007)
- A. Papadopoulos, S. Malamis, K. Moustakas, C.T. Kiranoudis and M. Loizidou, Development and application of software tools for monitoring, assessment and reporting of data concerning the operation of urban wastewater treatment plants in Cyprus, *Environmental Monitoring and Assessment*, 130, 255-270 (2007)
- P.S. Georgiadou, I.A. Papazoglou, C.T. Kiranoudis and N.C. Markatos, Modeling emergency evacuation for major hazard industrial sites, *Reliability Engineering and System Safety*, 92, 1388-1402 (2007)
- I. Maglogiannis, H. Sarimveis, C.T. Kiranoudis, A.A. Chatziioannou, N. Oikonomou and V. Aidinis, Radial basis function neural networks classification for the recognition of idiopathic pulmonary fibrosis in microscopic images, *IEEE Transactions on Information Technology in Biomedicine*, 12, 42-54 (2008)
- C.D. Tarantilis, C.T. Kiranoudis and N.D. Theodorakopoulos, A Web-based ERP system for business services and supply chain management: Application to real-world process scheduling, *European Journal of Operational Research*, 187, 1310-1326 (2008)
- H. Sarimveis, P. Patrinos, C.D. Tarantilis and C.T. Kiranoudis, Dynamic modeling and control of supply chain systems: A review, *Computers and Operations Research*, 35, 3530-3561 (2008)
- C.D. Tarantilis, E.E. Zachariadis and C.T. Kiranoudis, A hybrid guided local search for the vehicle-routing problem with intermediate replenishment facilities, *INFORMS Journal on Computing*, 20, 154-168 (2008)
- C.D. Tarantilis, E.E. Zachariadis and C.T. Kiranoudis, A guided tabu search for the heterogeneous vehicle routing problem, *Journal of the Operational Research Society*, 59, 1659-1673 (2008)
- E.E. Zachariadis, C.D. Tarantilis and C.T. Kiranoudis, A hybrid metaheuristic algorithm for the vehicle routing problem with simultaneous delivery and pick-up service, *Expert Systems with Applications*, 36, 1070-1081 (2009)
- C.D. Tarantilis, E.E. Zachariadis and C.T. Kiranoudis, A hybrid metaheuristic algorithm for the integrated vehicle routing and three-dimensional container-loading problem, *IEEE Transactions on Intelligent Transportation Systems*, 10, 255-271 (2009)
- E.E. Zachariadis, C.D. Tarantilis and C.T. Kiranoudis, A Guided Tabu Search for the Vehicle Routing Problem with two-dimensional loading constraints, *European Journal of Operational Research*, 195, 729-743 (2009)
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### 3. Conference Proceedings

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- C.T. Kiranoudis, Z.B. Maroulis, D. Marinos-Kouris and G.D. Saravacos, Estimation of the effective moisture diffusivity from drying data. Application to some vegetables, 6th International Congress in Engineering and Foods, Tokyo, Japan, May (1993)
- C.T. Kiranoudis, Z.B. Maroulis and D. Marinos-Kouris, An integrated computer-based dryer simulator, 3rd European Symposium on Computer Aided Process Engineering, Graz, Austria, July (1993)
- C.T. Kiranoudis, E. Tsami, Z.B. Maroulis and D. Marinos-Kouris, Experimental determination of air drying characteristics of foods, 2nd Jordanian Chemical Engineering Conference, Amman, Jordan, October (1993)
- C.T. Kiranoudis, T. Kritikos, Z.B. Maroulis and D. Marinos-Kouris, Process integrated simulator for metallurgical applications, 2nd Jordanian Chemical Engineering Conference, Amman, Jordan, October (1993)
- A. Kontopoulos, I. Paspaliaris, N. Papassiopi, O. Dimitropoulou, D. Marinos-Kouris, Z.B. Maroulis, T. Kritikos, C.T. Kiranoudis and N.G. Voros, PRISMA: A hydrometallurgical process simulator. Application in gold extraction from refractory pyrite concentrates by aqueous pressure oxidation, *Hydrometallurgy '94*, Cambridge, England, July (1994)
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- C.T. Kiranoudis, Z.B. Maroulis and D. Marinos-Kouris, Drying of Solids: Selection of some Continuous Operation Dryer Types, 6rd European Symposium on Computer Aided Process Engineering, Rhodes, Greece, May (1996)
- C.T. Kiranoudis, Z.B. Maroulis, D. Marinos-Kouris and G.D. Saravacos, Comparison of various types of industrial dryers, 10th International Drying Symposium, Krakow, Poland, July (1996)



- C.T.Kiranoudis and Z.B.Maroulis, Pre-feasibility study for the renewable exploitation in Crete, Renewable energy entering the 21st century, Sitges, Spain, November (1996)
- K.A.Papakonstantinou, C.T.Kiranoudis and N.C.Markatos, Numerical simulation of volatile organic compounds dispersion emitted from flooring materials in buildings, 3rd International Congress SITHOK, Maribor, Slovenia, May (1998)
- K.A.Papakonstantinou, C.T.Kiranoudis, F.K.Patrikiou and N.C.Markatos, Computer analysis of the air pollution in the Myceane Hall of the Archaeological Museum of Athens, 6th International Conference on Air Distribution in Rooms, KTH, Stockholm, Sweden, June (1998)
- C.T.Kiranoudis and N.C.Markatos, Computational analysis of industrial batch dryers, International Drying Symposium (IDS), Halkidiki, Greece, August (1998)
- K.A.Papakonstantinou, C.T.Kiranoudis and N.C.Markatos, Numerical simulation of air pollution dispersion and thermal comfort analysis in the Myceane Hall of the National Archaeological Museum of Athens, 4th ECCOMAS Computational Fluid Dynamics Conference, Athens, Greece, September (1998)
- C.Ioannidis, C.Logothesis, C.Potsiou, C.T.Kiranoudis, M.Christolis and N.C.Markatos, Spatial information management for risk assessment of major industrial accidents, FIG International Conference on Spatial Information Management, Budapest, Hungary, October (1999)
- S.P.Kourniotis, C.T.Kiranoudis and N.C.Markatos, Chemical accident databases. There are still lessons to be learned, SEVESO 2000, Athens, Greece, November (1999)
- C.T.Kiranoudis, N.C.Markatos, K.G.Zografos and I.Ziomas, An operational center for managing major chemical industrial accidents, SEVESO 2000, Athens, Greece, November (1999)
- K.A.Papakonstantinou, C.T.Kiranoudis and N.C.Markatos, Design of ventilation systems in industrial buildings. A computational approach of displacement ventilation in paper industry, 21st Air Filtration and Ventilation Centre Conference, The Hague, Netherlands, September (2000)
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- C.D.Tarantilis and C.T.Kiranoudis, An adaptive memory based tabu search heuristic for banking logistics management operations, 10th IFORS Special Conference: New trends in banking management, Athens, Greece, April (2001)
- C.D. Tarantilis and C.T. Kiranoudis, A Tabu Search Heuristic for Making Routing Decisions in Hazardous Materials Transportation, Conference of the European Chapter on Combinatorial Optimization ECCO XIV, Bonn, Germany, May (2001)
- C.D.Tarantilis and C.T.Kiranoudis, An adaptive memory based tabu search heuristic for the vehicle routing problem, The European Operational Research Conference, Rotterdam, The Netherlands, July (2001)
- C.D.Tarantilis and C.T.Kiranoudis, A meta-heuristic for the heterogeneous fixed fleet vehicle routing problem, The European Operational Research Conference, Rotterdam, The Netherlands, July (2001)
- C.D.Tarantilis, M.Digalakis and C.T.Kiranoudis, An Application Service Provider for e-Maximum Demand Location Problem, 6th Balkan Conference on Operational Research, Thessaloniki, Greece, May (2002)
- C.D.Tarantilis, A.Skouloudis and C.T.Kiranoudis, An ASP for e-logistics operations, 6th Balkan Conference on Operational Research, Thessaloniki, Greece, May (2002)
- I.Keramitsoglou, C.Kartalis and C.T.Kiranoudis, Integrated fuzzy classification system for automatic oil spill detection using SAR images, 9th International Symposium on Remote Sensing, Agia Galini, Greece, September (2002)
- C.D. Tarantilis, A. Skouloudis, and C.T. Kiranoudis, Business to Business e-commerce and marketing, development and managing a B2B web site, 12th Mini EURO Conference, Brussels, Belgium, April (2002)
- V.V. Petinis, C.D. Tarantilis and C.T. Kiranoudis, Warehouse sizing for multiple stock keeping products, Computational Management Science Conference, Chania, Greece, May (2003)
- C.D.Tarantilis, C.T. Kiranoudis and N.C. Markatos, BoneRoute: An effective memory-based method for effective fleet management, 6th Italian Conference on Chemical and Process Engineering, Pisa, Italy, June (2003)
- S.P.Kourniotis, C.T.Kiranoudis and N.C.Markatos, An operational system for managing major industrial accidents, 6th Italian Conference on Chemical and Process Engineering, Pisa, Italy, June (2003)
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- D. Vakalis, H. Sarimveis, C.T. Kiranoudis, A. Alexandridis, G. Bafas, Modeling and Simulation of Wildfires based on Artificial Intelligence Techniques, International Conference of Computational Methods in Sciences and Engineering 2004 (ICCMSE 2004), Vouliagmeni, Greece, November (2004)
- D.N. Theodorakopoulos, C.D. Tarantilis and C.T. Kiranoudis, An ERP system for attacking business processes under ISO standard. EURO XX 20th European Conference on Operational Research, Rhodes, Greece, July (2004)
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- P.S. Georgiadou, I.A. Papazoglou, C.T. Kiranoudis and N.C. Markatos, Emergency response optimization for major hazard industrial sites. International Conference for Probabilistic Safety Assessment and Management PSAM7 - ESREL 2004, Berlin, Germany, June (2004).
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- E.E. Zachariadis, C.D. Tarantilis and C.T. Kiranoudis, A tabu search for solving the multi-depot vehicle routing problem with inter-depot routes. 3rd Management Science & Technology Conference, Athens, Greece, May (2006)
- N. Theodorakopoulos, C.T. Tarantilis and C.T. Kiranoudis, An ERP system for Business Process Management. 3rd Management Science & Technology Conference, Athens, Greece, May (2006)
- N. Mandellos, C.D. Tarantilis and C.T. Kiranoudis, An efficient heuristic for solving a ship routing problem. 3rd Management Science & Technology Conference, Athens, Greece, May (2006)
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- C.D. Tarantilis, E.E. Zachariadis and C.T. Kiranoudis, A Hybrid Metaheuristic Algorithm for the Capacitated Vehicle Routing Problem with Two-Dimensional Loading Constraints. The Seventh Metaheuristics International Conference Montreal, Canada, June (2007).
- A. Moropoulou, E.T. Delegou, M. Konstandinidou and C.T. Kiranoudis, Decision Making about Cleaning Interventions on Marble Surfaces Using a Fuzzy Logic Approach. 11DBMC International Conference on Durability of Building Materials and Components, Istanbul, Turkey, May (2008).
- M. Konstandinidou, Z. Nivolianitou, G. Simos, C.T. Kiranoudis and N.C. Markatos, Operators' response time estimation for a critical task using the fuzzy logic theory, Safety, Reliability and Risk Analysis: Theory, Methods and Applications, Joint ESREL and SRA-Europe Conference, Karlstad, Sweden, June (2009)
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- C. Kontoes, D. Aifantopoulou, A.M. Deflorio, Th. Herekakis, D. Iasillo, A. Kappos, C. Karakostas, I. Keramitsoglou, C.T. Kiranoudis, V. Lekidis, G. Panagopoulos, G. Papadopoulos and S. Paralikidis, Project MASSIVE: Mapping Seismic Vulnerability and Risk of Cities, 7th International Workshop on Statistical Seismology, Santorini, Greece, May (2011)
- I. Keramitsoglou and C.T. Kiranoudis, Fully automated extraction and analysis of surface Urban Heat Island patterns from moderate resolution satellite images, European Geosciences Union, General Assembly 2012, Vienna, Austria, April (2012)
- E.E. Zachariadis, C.D. Tarantilis and C.T. Kiranoudis, A Rich Vehicle Routing Problem with Pallet Loading Constraints, ODYSSEUS 2012, 5th International Workshop on Freight Transportation and Logistics, Mykonos, Greece, May (2012)
- C. Doukas, P. Stagkopoulos, C. T. Kiranoudis, and I. Maglogiannis, Automated Skin Lesion Assessment using Mobile Technologies and Cloud Platforms, 34th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, San Diego, USA, August (2012)
- E.T. Delegou, C.T. Kiranoudis, J. Sayas, A. Moropoulou, Developing and Integrated Decision Making System for the Assessment of Cleaning Interventions on Marble Architectural Surfaces, 12th International Congress on the Deterioration and Conservation of Stone, New York, USA, October (2012)
- E.E. Zachariadis, C.D. Tarantilis and C.T. Kiranoudis, Solving the vehicle routing problem with cargo weight considerations, 26th European Conference on Operations Research, Rome, Italy, June (2013)

C.T. Kiranoudis, E.E. Zachariadis, I. Keramitsoglou, K. Saini, O. Kakaliagou and E. Kleitsikas. Wildfire Evacuation Trigger Buffers for Sensitive Areas: EVITA project. Third International Workshop on Earth Observation and Remote Sensing Applications, Changsha, China, June (2014)

I. Keramitsoglou, C.T. Kiranoudis, and P. Sismanidis. Towards Real Time Quarter-Hour Monitoring of the Urban Thermal Environment at Sharpened Spatial Resolution. Third International Workshop on Earth Observation and Remote Sensing Applications, Changsha, China, June (2014)

E.E. Zachariadis, C.D. Tarantilis and C.T. Kiranoudis, The Load-Dependent Vehicle Routing Problem and its Pick-up and Delivery Extension, VeRoLog 2014, Oslo, Norway, June (2014)

I. Keramitsoglou, C.T. Kiranoudis, and P. Sismanidis. Real Time Quarter-Hour Monitoring of Urban Heat Islands. Third International Conference on Countermeasures to Urban Heat Island, Venice, Italy, October (2014)

## RESEARCH PROJECTS

### 1. National Research Programs

Energy conservation during drying of agricultural products, General Secretariat of Research and Development, PENED, 1989-1990

Simulator of hydro-metallurgical units for processing of Greek minerals, General Secretariat of Research and Development, KOINOPRAXIA, 1989-1991

Computer aided design of dryers for fruits and vegetables, General Secretariat of Research and Development, PENED, 1993-1994

Development of drying stations for the production of a new type of raisins, General Secretariat of Research and Development, EPET II, 1994-1995

An integrated computer aided framework for the process industry, General Secretariat of Research and Development, EPET II, 1994-1995

Paper production plant control system improvement for energy conservation and quality regulation. General Secretariat of Research and Development, PAVE, 1995-1996

An operational center for dealing with hazardous industrial accidents, Ministry of Environment, 1997-2000

An operational plan for dealing with hazardous industrial accidents, Municipality of Western Attica, 1997-2000

Environmental consequences from plant process extension, PETROLA, 1998

A decision support system for the transportation of hazardous materials (SDEF). General Secretariat of Research and Development, EPET II, 1998-2000

Innovative methods in education. Application in energy, Ministry of Education, EPEAEK, 1998-2000

Development of Hydrogen Technologies in Greece. General Secretariat of Research and Development, EPET II, 1999-2001

A Decision Support System for optimal management of road network pavement resources (ANODOS), General Secretariat of Research and Development, EPET II, 1999-2001

An operational center for managing atmospheric pollution, Ministry of Environment, 1999-2000

Surface treatment of polymeric materials in plasma reactors. Application in microelectronics and nano-technology, General Secretariat of Research and Development, PENED, 1999-2001

Planning of land use for areas within extended industrial regions, Ministry of Environment, 1999-2000

An operational plan for dealing with hazardous industrial accidents in the Region of Crete, Ministry of Environment, 2001-2002

Development of an ASP for e-logistics fleet management, Athens Central Food Market, 2002-2003

Diagnostic Study for the modernization of the Supply Chain of Greek Army, PLANET ERNST & YOUNG, 2002

Operational Center for Managing Forest Fires, General Secretariat of Research and Development, EPET II, 2003-2005

Determination of optimal routing of Vessels through Aegean, General Secretariat of Research and Development, EPET II, 2003-2005 (*NTUA Scientific Coordinator*)

Development of an on-line system for measuring hazardous materials leakages in Eleysina, ELINYAE, 2005

Evaluation of EDET II Network of Academic Institutions, Ministry of Finance, 2005 (*Project Scientific Coordinator*)

A Decision Support System for optimal management of Vehicles collecting Solid Wastes, Municipality of Eleysina, 2006

## 2. EU Research Programs

Foundation of a computer aided production planning group in Greece, STRIDE No 318, 1992-1994

Process integration with combined heat and power, JOULE No 435, 1993-1995

Advanced information technologies in manufacturing and engineering (AITIME), ESPRIT No 9902, 1994-1996

Pre-feasibility study for the renewable energy sources exploitation in Crete, ALTENER No 1030, 1994-1995

Advanced Control Network (ACORN), BRITE EURAM No 1479, 1995-1997

Intensified and high performance thermosyphon reboilers. Application to the oil and gas processing industries, JOULE No 61, 1998-2000

Policy evaluation for public transport, SAVE No 195, 1998-2000

PROMED: Integrated Information System for Monitoring Environmental Emergencies of High Probability of Occurrence in the Mediterranean, LIFE ENVIRONMENT Programme, EC DG ENVIRONMENT, 2000-2001

An operational system for monitoring liquid emissions in Cyprus Plants, LIFE ENVIRONMENT Programme, 2003-2005

KYPROS, An operational system for monitoring waste streams, LIFE ENVIRONMENT Programme, 2004-2006

An integrated system for monitoring environmental pollution in Kalinningard, LIFE Programme Third Countries, EC DG ENVIRONMENT, 2005-2007

MEDRISK: Mediterranean Risk Management, ITERREG ARCHIMED, 2006-2007 (*NTUA Scientific Coordinator*)

ARTEMIS: Forest Fire Risk Management Project, EC DG ECHO, 2008-2009 (*Project Scientific Coordinator*)

MASSIVE: Mapping Seismic Vulnerability and Risk of Cities, EC DG ECHO, 2010-2011 (*NTUA Scientific Coordinator*)

CALCHAS: Development of an Integrated Analysis System for the effective Fire Conservancy of Forests, LIFE+ Programme, EC DG ENVIRONMENT, 2010-2013 (*NTUA Scientific Coordinator*)

EVITA: Wildfire Evacuation Trigger Buffers for Sensitive Areas, DG ECHO, 2013-2014 (*Project Scientific Coordinator*)