

Curriculum vitae

KIRITSIS, Dimitris

Born 1957 in Greece, Greek, married, 2 children

1980, diploma in Mechanical Engineering, University of Patras, Patras, Greece

1987, Ph.D. in Mechanical Engineering, University of Patras, Patras, Greece

Faculty Member EPFL-STI

Guest Professor in Mechanical Engineering, University of Cincinnati, USA

Invited Professor, ParisTech Arts & Metiers, ENSAM, France, 2012

Invited Professor, University of Technology of Belfort-Montbéliard, France, 2012

Invited Professor, University of Technology of Compiègne, France, 2009



Teaching

- EPFL-STI, Mechanical Engineering and Microengineering sections: Computer Aided Manufacturing.
- EPFL-STI, Mechanical Engineering and Microengineering sections: Lifecycle economic and environmental performance of product systems.
- EPFL Doctoral School, program “Manufacturing Systems and Robotics”: PR-018 “Product lifecycle management - concepts methods and tools”, in the doctoral program “Manufacturing Systems and Robotics”.
- Master Thesis and Student Project supervision.

Research

- Computer Aided Process Planning for Manufacture, Assembly, Disassembly,
- Petri- net modeling with applications in Manufacturing,
- Closed Loop Lifecycle Management (CL2M) using Product Embedded Information Devices (PEID),
- Engineering Asset Management,
- Ontology-Based Engineering.

Professional Experience

- 1991-Present: EPFL, DGM-ICAP-LCAO and since 2002, STI-IGM-LICP, Deputy Director
- 1989-1990: EPFL, DGM-ICAP-LCAO, Fonctionnaire scientifique
- 1982-1989: University of Patras, Machine Tool Engineering Laboratory, Scientific collaborator

Membership and Services in Professional Organizations

- Member of ASME since 1993
- Vice President/Secretary of ASME International – Swiss Chapter, 1995-2006
- Member of IFIP-WG5.7 since 2005, vice-chair and secretary since September 2008
- Member of IFIG-WG5.1 since 2008

- Founding Member of the new IFAC TC5.1 WG IFAC WG “Advanced Maintenance Engineering, Services and Technology”
- Founding member of the Hellenic Maintenance Society since 2007
- Founding member of the International Society of Engineering Asset Management (ISEAM) since 2007
- Member of the Board of MANUFUTURE-CH (www.manufuture.ch)

Services in EPFL Committees

- Member of the Doctoral Program Committee of the Doctoral Program: “Manufacturing Systems and Robotics”, since 2002
- Member of the CCE (Conference du Corps des Enseignants) of EPFL, 2007-2012.
- Participated in two missions of the VPRI for promoting EPFL at the National Technical University of Athens and the University of Patras in Greece
- Member of the Informatics Committee of DGM: 1999-2001

Services in other Universities

- Member of the Administration Board of INP GI, the Industrial Engineering School of INP Grenoble, France.
- Member of the Administration Board of the Department of Mechanical Systems for the University of Technology of Compiègne, France.

Contact Information

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Research activities

PhD completed

Aristeidis Martsokis	An ontology-based approach for closed-loop product lifecycle management
Jong-ho Shin	Decision support methods for closed-loop conceptual design
Young-seok Kim	Quality embedded intelligent remanufacturing
Ali Saffarpour	Product platform development: a functional approach considering customer preferences

PhD in progress

Fatih Karakoyun	Concept and modeling of closed-loop life cycle management for lightweight solution
Andreas Koukias	Asset data management for asset optimization
Ana Milicic	Automated analysis of product related data generated from plm ontology
Drazen Nadoveza	Infrastructure for context-aware enterprise applications
Apostolos Perdikakis	Towards seamless continuation of knowledge In product lifecycle management

National Swiss grants

Initiator and coordinator

1. CTI 3416-1: DEVIPLAN, LICP budget approx. 300'000.- CHF; 1997-2000.
2. CTI 6574.1 EUS-ES : SwissPROMISE, LICP budget approx. 100'000.- CHF; 2003-2004.
3. CTI 6324.1 IMS: WIN-SwissMode, LICP budget approx. 50'000.- CHF; 2003-2004.
4. INTERREG IV SMAC, LICP budget approx. 150'000.- CHF; 2008-2012.
5. INTERREG IV MainPreSi, LICP budget approx. 150'000.- CHF, 2013-2016.
6. ECO-INNOVERA SuWAS, LICP budget approx. 150'000.- CHF, 2013-2016.

EU grants

Initiator and scientific responsible

1. FP6 project no. FP6-507100 and IMS-01008: PROMISE. Total budget 8 M€. LICP budget approx. 1'300'000.- CHF; 2004-2008.

Principal Investigator for EPFL

1. G1RD-CT-2000-00257 : AEOLUS - An End-Of-Life of Product System, LICP budget approx. 300'000.- CHF; 2000-2002.
2. IMS-IST-2001-32059: GEM - Global Education in Manufacturing, LICP budget approx. 221'000.- CHF; 2002-2004.
3. G1RT-CT2001-05032 : MANTYS - Thematic Network on Manufacturing Technologies, LICP budget approx. 70'000.- CHF; 2001-2005.
4. IMS-IST-2001-65001 : IMS-NoE - Network of Excellence on IMS, LICP budget approx. 35'000.- CHF; 2002-2005.
5. FP6-STREP 016542: PRIME - Providing Real Integration in Multi-disciplinary Environments; LICP budget approx. 320'000.- CHF; 2005-2007.
6. FP6-IP for SMEs 505339: KoBaS - Knowledge Based Customized Services for Traditional Manufacturing Sectors Provided by a Network of High Tech SMEs; LICP budget approx. 680'000.- CHF; 2004-2007.
7. FP7 CSA IMS2020. LICP budget approx. 350'000.- CHF; 2009-2011.
8. FP7 FoF CSA ActionPlanT, LICP budget approx. 230'000.- CHF; 2010-2012.
9. FP7 FoF IP PLANTCockpit, LICP budget approx. 600'000.- CHF; 2010-2014.
10. FP7 NMP SuPLight, LICP budget approx. 450'000.- CHF; 2011-2014.
11. FP7 FoF IP LinkedDesign, LICP budget approx. 600'000.- CHF; 2011-2015.
12. FP7 ICT e-SAVE, LICP budget approx. 250'000.- CHF; 2012-2015
13. LLP LdV TECMEHV, LICP budget approx. 150'000.- CHF; 2011-2014
14. FP7 FoF CSA ManuSkills, LICP budget approx. 220'000.- CHF; 2013-2015.

Impact/visibility activities; honors

Invited lectures at international conferences

I was invited to give keynote and invited lectures at the following events:

1. International conference on Intelligent Maintenance Systems, IMS 2004, Arles, France
2. ASME Annual Meeting IMECE 2004, Anaheim, USA, panel on e-Manufacturing, (certificate in appendix 8.4).
3. ICFDM 2005, International Conference on the Frontiers of Design and Manufacturing, Xian, China.
4. IFAC 2005, Panel on e-Maintenance, co-author of survey state-of-the-art paper, Prague, Czech Republic.
5. WCEAM 2006, Principal Speaker at “Workshop 9 – Engineering Asset Management Enabled by Product Embedded Information Devices”, together with Professor Fumihiko Kimura of the University of Tokyo (www.wceam.com).
6. Invited Keynote Speaker at the FP7 Consultation Workshop on “Technologies for Product Design & Virtualisation”, 30-31 March 2006, introducing the subject “R&D Challenges for Product Design and Virtualisation”.
7. Invited Keynote Speaker at the IFAC-IMS 2007 conference, April 2007, Alicante, Spain.
8. Invited Keynote Speaker at PLM 2008, July 2008, Seoul South Korea.
9. ASME CIE 2008, Panel on PLM, August 2008, New York, USA.
10. WCEAM 2008, Panel on Closed-Loop PLM, October 2008, Beijing, China.
11. ASME DETC 2009, Panel on “Sustainable Products, Services and Manufacturing Systems”, August 2009, San Diego, USA.
12. INDUSCON 2010, Panel and Tutorial on Closed Loop Lifecycle Management, November 2010, Sao Paulo, Brazil.
13. TMCE 2012, Academic Tutorial on Sustainable Manufacturing, May 2012, Karlsruhe, Germany.
14. Keynote Speaker at CIRP GCSM 2012, October 2012, Istanbul, Turkey.

Miscellaneous professional activities

Invited participation at MIT RFID Academic Convocation

In January 2006, I was invited to participate in the MIT RFID Academic Convocation as Leader of the Session on Automotive Applications.

Member of Journal Editorial Board

1996-2011, member of the Editorial Board of the International Journal “Advances in Engineering Software”.

Since February 2009 I am member of the Editorial Board of the International Journal on Strategic Engineering Asset Management.

Guest Editor of Special Issues of Interational Journals

In 1995, I was guest editor of a special issue of the journal Advances in Engineering Software on Computer Aided Process Planning.

In 2009, I was guest co-editor of the special issue on "Developing Sustainable Products, Processes and Services" of the International Journal of Product Lifecycle Management.

Organisation of conferences

During the last years; I organised or participated in the organisation of the following conferences and conference sessions:

1. Organiser and chairman of two technical sessions on CAPP, in the 1994 ASME International Computers in Engineering Conference, Minneapolis, USA, 11- 14 September 1994.
2. Member of the Organizing Committee of the International Symposium for Electromachining- ISEM-XI, held in Lausanne, Switzerland, April 17-21, 1995. Also co-editor of the Conference Proceedings.
3. Program co-chairman and member of the Organizing Committee of the First International Workshop on Intelligent Manufacturing Systems [IMS-EUROPE 1998], held in Lausanne, Switzerland, April 15-17, 1998. Also co-editor of the Conference Proceedings.
4. Member of the National Organizing Committee of the 16th IMACS WORLD CONGRESS 2000 on Scientific Computation, Applied Mathematics and Simulation, Lausanne, Switzerland, August 21-25, 2000.
5. General Secretary of the International Symposium TMCE 2004, April 13-17, 2004, Lausanne, Switzerland.
6. Organiser and chairman of two sessions (SIG5), IMS-Forum 2004, Como, Italy, May 2004.
7. Organiser and chairman of a session at INCOM 2006, May 2006, Saint-Etienne, France.
8. Organiser and chairman of the session on Sustainable Manufacturing of the International IMS workshop, November 2007, Zürich, Switzerland.
9. General Chair of the 1st IMS MTP Workshop, April 2008, Bern, Switzerland.
10. General Chair of the 2nd IMS MTP Workshop, October 2008, Montreux, Switzerland.
11. Member of the International Steering Committee of the international congress WCEAM 2008, October 2008, Beijing, China.
12. Congress Chair of the the international congress WCEAM 2009, 28-30 September 2009, Athens, Greece.
13. Program Chair & Coordinator of the IMS World Congress: "Engineering a Sustainable Future", November 2009, Geneva, Switzerland.
14. Conference Co-Chair of the the international conference APMS 2012, 24-26 September 2012, Rhodes, Greece.

Member of Conference Committees

I provided my services as member of International Conference Committees as follows:

1. Member of the Program Committee of the international conference ASI 2006, September 2006, Kassel, Germany.
2. Member of the International Advisory Committee of the international conference IMS-Forum 2004, Como, Italy, May 2004.
3. Member of the International Scientific Committee of the international conference EURASIP 2007.
4. Member of the International Scientific Committee of the international conference PLM 2007, July 2007, Milan, Italy.
5. Member of the International Scientific Committee of the international conference EURASIP 2008.
6. Member of the International Scientific Committee of the international conference PLM 2008, July 2008, Seoul, South Korea.
7. Member of the International Scientific Committee of the international conference PLM 2009, July 2009, Bath, UK.
8. Member of the International Scientific Committee of the international conference MITIP 2009, September 2009, Bergamo, Italy.
9. Member of the Technical Program Committee of the international conferences APMS since 2006

10. Member of the International Scientific Committee of the international congresses WCEAM since 2008
11. Member of the International Scientific Committee of the international conference IFAC-MIM

Reviewer

I am a regular reviewer and referee of papers submitted in the following international journals and conferences:

Journals: Computers in Industry, Computer Aided Design, Advances of Engineering Informatics, Advances in Engineering Software, International Journal of Production Control, Production Planning and Control, ASME Transactions, Journal of Computing and Information Science in Engineering, Journal of Intelligent Manufacturing.

Conferences: ASME, IFAC, IEEE, IFIP, TMCE, WCEAM.

EC consulting

I provided my services as a consultant of the European Commission as follows:

1. Project Technical Advisor (PTA) of two CRAFT projects.
2. Reviewer and evaluator of RTD proposals submitted under the FP5 and FP6 research programs in 1997, 2003 and 2005.
3. In 2002, I was invited as expert in a workshop on IMS called by the EC.
4. In 2005, I participated and contributed in the preparations of FP7 in three workshops organised by the EC and IMS-NoE.

EFFRA

Since 2010 I am member of EFFRA, representative of EPFL.

MANUFUTURE-CH

In 2005, I was invited and contributed in the first Swiss MANUFUTURE-CH workshop in Bern. As a follow-up, I am an active member of the Working Group on Manufacturing Education of MANUFUTURE-CH (www.manufuture.ch).

Since 2010, I joined the administrative board of MANUFUTURE-CH responsible for the Working Group “Sustainable Manufacturing Logistic Networks”.

ASME-CH

I served as Vice-Chairman and Secretary in the Executive Committee of the Swiss Section of ASME from 1996 until 2006.

IFIP-WG5.7 - APMS

Since 2005, I am elected member of IFIP-WG5.7. IFIP (www.ifip.org) is the International Federation for Information Processing and the WG 5.7 deals with Integration in Production Management. *Since September 2008, I am elected Secretary of this WG.*

IFAC TC5.1 – WG A-MEST

Since October 2008, I am Founding Member of the new IFAC TC5.1 WG IFAC WG “Advanced Maintenance Engineering, Services and Technology”

WCEAM

Since 2007, I am member of the International Steering Committee of WCEAM, the World Congress in Engineerign Asset Management.

ISEAM

Since 2007, I am founding member of ISEAM. ISEAM is the recently created International Society of Engineering Asset Mangement.

International Interest Group on Sustainability

In March 2009, I accepted an invitation to join an International Interest Group on Sustainability together with the Colleagues in the following list: Prof. Kincho Law – Stanford University, Prof. Hyowon Suh- KAIST, Korea, Dr. Jeff Heisserman – Boeing, Dr. Korhan Sevenler – Xerox, Elisson Wright – URS Corp, Wendy Weiss – URS Corp, Dr. Erastos Filos – EC, Dr. Paul Chalmer - NCMS, Dr. Ram D Sriram – NIST, Dr. Sudarsan Rachuri – NIST, Kevin Lyons – NIST, Dr. Prabir Sarkar – NIST, Xenia Fiorentini – NIST, Conrad Bock – NIST.

Awards

The [IMS](#) International Steering Committee gratefully recognizes, Dimitris Kiritsis, Ph.D. MTP Workshop Chair, 2009-2010 for dedicated service and significant contribution that advanced the [IMS](#) program.

The physical form of this award is a block of crystal with the above text laser-marked on it.

Selected list of publications,:

Invited peer reviewed book chapters

1. D. Kiritsis and A. Rolstadås, Ubiquitous PLM using Product Embedded Information Devices, Advanced Manufacturing-An ICT and Systems perspective, Taylor & Francis publisher, pp. 65-78, 2007
2. Hong-Bae Jun, Dimitris Kiritsis, and Paul Xirouchakis, "Closed-loop PLM," Advanced Manufacturing-An ICT and Systems perspective, Taylor & Francis publisher, pp. 79-90, 2007.
3. Myklebust, D. Kiritsis, T. Lamvik, Sustainable Products and Processes: Challenges for Future Research, Advanced Manufacturing-An ICT and Systems perspective, Taylor & Francis publisher, pp. 91-98, 2007.
4. Dimitris Kiritsis, Hong-Bae Jun, and Paul Xirouchakis, "Closing product information loops with product embedded information devices: RFID Technology and Applications, Models and Metrics," appeared in RFID technology and Applications," (edited by Stephen Miles, Sanjay Sarma, John Williams), ISBN-13: 9780521880930, Cambridge University press, 2007.
5. Dimitris Kiritsis, Product Lifecycle Management. Chapter 43 in: Nof (ed.), Handbook of Automation, ISBN 978-3-540-78830-0, Springer, 2009.

Peer reviewed journal articles

6. PAPAIOANNOY S. G. and KIRITSIS D., An Application of Bertrand Curves and Surfaces to CAD/CAM, Computer-Aided Design (CAD), Vol. 17, No. 8, 1985.
7. PAPAIOANNOY S. G. and KIRITSIS D., Computer-Aided Manufacturing of High Precision Cams, Transactions of the ASME, Journal of Engineering for Industry, Vol. 110, pp. 352-358, 1988.
8. LIANOS T., KIRITSIS D. and ASPRAGATHOS N., A Direct Algorithm for Manipulator's Continuous Path Control, Robotics and Computer Integrated Manufacturing, Vol. 8, No. 2, pp. 97-101, 1991.
9. KIRITSIS D., A high precision interpolation algorithm for 3D parametric curve generation, Special Issue on NC Machining and Cutter Path Generation, Computer-Aided Design (CAD), Vol. 26, No. 11, 1994
10. KIRITSIS D., A review of knowledge-based expert systems for process planning, The International Journal of Advanced Manufacturing Technology, Vol. 10, pp. 240-262, 1995.
11. KIRITSIS D. and PORCHET M., A generic Petri net model for dynamic process planning and sequence optimisation, Advances in Engineering Software, Vol. 25, No. 1, pp. 61-71, 1996
12. Xirouchakis, P., Kiritsis, D. and Persson, J.G., A Petri net technique for process planning cost estimation, CIRP Annals, vol. 47/1/1998, pp.427-430.
13. Kiritsis, D., Neuendorf, K.-P. and Xirouchakis, P., Petri Net Techniques for process planning cost estimation, Advances in Engineering Software, Vol.30, 1999, pp.357-387.
14. Xirouchakis, P., Kiritsis, D., Gunther, C. and Persson, J.G., A Petri net technique for batch delivery time estimation, CIRP Annals, vol. 48/1/1999, pp.361-364.
15. Kis,T., Kiritsis, D., Xirouchakis, P. and Neuendorf, K.P., A Petri net model for integrated process and job shop production planning, Journal of Intelligent Manufacturing, Vol. 11, No. 2, April 2000, p.p. 191-207.
16. Klaus-Peter Neuendorf, Dong-Ho Lee, Dimitris Kiritsis, and Paul Xirouchakis, Disassembly Scheduling with Parts Commonality using Petri Nets with Timestamps, Fundamenta Informatica, Vol. 47 (3-4), September-October 2001, 295-306.
17. Dong-Ho Lee, Dimitris Kiritsis and Paul Xirouchakis, 2000, Branch and fathoming algorithms for operations sequencing in process planning, International Journal of Production Research, 39 (8), pp. 1649-1669, May 2001.
18. Dong-Ho Lee, Dimitris Kiritsis and Paul Xirouchakis, Search Heuristics for Operation Sequencing in Process Planning, International Journal of Production Research, 39 (16): 3771-3788, November 2001.

19. Dong-Ho Lee, Dimitris Kiritsis and Paul Xirouchakis, Simulated Annealing Algorithms for Operation Sequencing in Nonlinear Process Planning, *Journal of Korean Institute of Industrial Engineers*, 2001.
20. Ahmed Bufardi, Dmitrij Sakara, Razvan Gheorghe, Dimitris Kiritsis and Paul Xirouchakis, 2003, Multiple criteria aid for selecting the best product end of life scenario, *International Journal of Computer Integrated Manufacturing*, issue 7/8, October 2003.
21. Kiritsis, D., Ahmed Bufardi, Paul Xirouchakis, 2003, Research issues on product lifecycle management and information tracking using smart embedded systems, *Advanced Engineering Informatics*, 17, pp. 189-202.
22. Lee, D.-H., Kiritsis, D. and Xirouchakis, P., 2004, An Iterative Approach to Operation Sequencing in Nonlinear Process Planning, *International Journal of Production Research*, 42 (22), pp. 4641-4672.
23. Hong-Bae Jun, Dimitris Kiritsis, Mario Gambera, and Paul Xirouchakis, "Predictive Algorithm to Determine the Suitable Time to Change Automotive Engine Oil," *Computers and Industrial Engineering*, vol. 51, pp. 671-683, 2006. (SCIE)
24. Hong-Bae Jun, Dimitris Kiritsis, and Paul Xirouchakis, "Research issues in closed-loop PLM," *Computers in Industry*, vol 58, no. (8-9), pp. 855-868, 2007. (SCI)
25. Hong-Bae Jun, Fabrizio Lo Conte, Dimitris Kiritsis, and Paul Xirouchakis, "A predictive algorithm for estimating the quality of vehicle engine oil," appeared in *International Journal of Industrial Engineering*, 2007. (SCIE)
26. Hong-Bae Jun, Jong-Ho Shin, Dimitris Kiritsis, and Paul Xirouchakis, "System Architecture for Closed-loop Product Lifecycle Management," *International Journal of Computer Integrated Manufacturing*, Vol. 20, No 7, pp. 684-698, Taylor & Francis publisher, 2007. (SCIE)
27. Hong-Bae Jun, Dimitris Kiritsis, and Paul Xirouchakis, "Product lifecycle metadata modeling and its application," *IEEE Transactions on Knowledge and Data Engineering*, Vol. 19, No. 12, pp. 1680-1693, 2007. (SCI)
28. Hong-Bae Jun, Mathieu Cusin, Dimitris Kiritsis, and Paul Xirouchakis, "A multi-objective evolutionary algorithm for EOL product recovery optimization: Turbocharger case study," *International Journal of Production Research*, vol. 45, no. 18, pp. 4573-4594, 2007 (SCI).
29. D.F Xu, J. Browne, Hong-Bae Jun, Q. Li, Y.L. Chen, and D. Kiritsis, "Modelling for Product Information Tracking and Feedback via Wireless Technology in Closed-Loop Supply Chains", *International Journal of Computer Integrated Manufacturing*, Vol. 22, No. 7, July 2009, 648-670.
30. D. Kiritsis, V.K. Nguyen, J. Stark, "How closed-loop PLM can improve knowledge management over the complete product lifecycle?" *International Journal of Product Lifecycle Management*, Vol. 3, No. 1, 2008, 54-77.
31. Hong-Bae Jun, Jong-Ho Shin, Youngseok Kim, Dimitris Kiritsis, and Paul Xirouchakis, "A Framework for RFID applications in Product Lifecycle Management," appeared in the Special issue of *International Journal of Computer Integrated Manufacturing*, Vol. 22, No. 7, July 2009, 595-615.
32. Matsokis A. and Kiritsis D. An Ontology-based Approach for Product Lifecycle Management. *Computers in Industry*; 61 (8), 2010, pp.787-797
33. Kiritsis Dimitris, Closed-loop PLM for intelligent products in the era of the internet of things. *Computer-Aided Design* (2010), doi:10.1016/j.cad.2010.03.002.
34. Jong-Ho Shin, Hong-Bae Jun, Dimitris Kiritsis, and Paul Xirouchakis, Function performance evaluation and its application for design modification based on product usage data, *International Journal of Product Lifecycle Management* 2009 - Vol. 4, No.1/2/3 pp. 84 - 113.
35. Segio Terzi & Marco Garetti (Politecnico di Milano), Dimitris Kiritsis (EPFL), Aziz Bourras (University of Lyon) and Deba Dutta (University of Illinois at Urbana-Champaign), "Product lifecycle management - from its history to its new role", *Int. J. of Product Lifecycle Management*, 2010 Vol. 4, No. 4, pp. 360 - 389.

36. Matsokis A. and Kiritsis D. Ontology Applications in PLM. *International Journal of Product Lifecycle Management*; 5 (1), 2011, pp.84-97
37. Demoly F., Toussaint L., Eynard B., Kiritsis D., Gomes S., "Geometric skeleton computation enabling concurrent product engineering and assembly sequence planning", *Computer-Aided Design*, 2011.
38. Demoly F., Yan X.-T., Eynard B., Kiritsis D., Gomes S. "Integrated product relationships management: a model to enable concurrent product design and assembly sequence planning", *Journal of Engineering Design*, 2011.
39. Hong-Bae Jun, Dong-Ho Lee, Jae-Gon Kim & Dimitris Kiritsis (2011): Heuristic algorithms for minimising total recovery cost of end-of-life products under quality constraints, *International Journal of Production Research*, 2011, DOI:10.1080/00207543.2011.624562
40. Kiritsis Dimitris, Semantic technologies for engineering asset life cycle management. *International Journal of Production Research*, 2013, <http://dx.doi.org/10.1080/00207543.2012.761364>.
41. Dimitris Kiritsis, Ahmed Bufardi, Dimitris Mavrikios, Thomas Knothe, Hadrien Szigeti & Anirban Majumdar, A competence-based industrial learning approach for factories of the future, *Education and information Technologies*, The Official Journal of the IFIP Technical Committee on Education, DOI 10.1007/s10639-012-9247-3

Other (contributions to proceedings etc.)

42. PAPAIOANNOY S. G. and KIRITSIS D., A Non-Inverting Algorithm for Robot Positioning, 3rd Seminar of Industrial Robots, Győr, Hungary, June 1984.
43. KIRITSIS D. and GIANNOPOYLOS A., A Direct Algorithm for Kinematic Control of Industrial Robots across a Prescribed Trajectory, 1st National Symposium of Robots and Automation, Athens, Greece, December 1987. (in Greek)
44. KIRITSIS D. and PAPAIOANNOY S. G., Interpolation Algorithms for General Non-Parametric and Parametric Curves by Mathematical Programming, INCOM'89, 6th IFAC/IFIP/IFORS/IMACS Symposium on Information Control Problems In Manufacturing Technology, Madrid, September 26-29, 1989.
45. KIRITSIS D., Generation of Smooth 3D-Curves by Small Straight Line Segments Within a Given Tolerance, *COMPUGRAPHICS 91 International Conference*, Sesimbra, Portugal, September 16-20, 1991.
46. KIRITSIS D. and ALBERT L., EDM Part Design and Process Planning, IPDES (Esprit Project #2590) Workshop, CETIM Senlis, France, June 4-5, 1992.
47. KIRITSIS D., PORCHET M., BOUTZEV L., ZIC I. and SOURDIN P., Knowledge Based Expert Systems for CAD/CAM. Experience of an EDM Application, The 1993 ASME International Computers In Engineering Conference, San Diego, California, August 8-12, 1993.
48. KIRITSIS D., PORCHET M. and BELHI A., A generic Petri net model for dynamic process planning, 1994 ASME International Computers in Engineering Conference-CIE94, September 11-14, 1994, Minneapolis, Minnesota, USA.
49. KIRITSIS D., Petri net modeling for dynamic process planning, European Workshop on Integrated Manufacturing Systems Engineering - IMSE'94, Grenoble, France, December 12-14, 1994. Also in *Integrated manufacturing systems engineering*, edited by P. LADET & F. VERNADAT, Chapman & Hall, London, pp. 206-218, 1995.
50. SOURDIN P. and KIRITSIS D., A Knowledge Based Process Planner for Wire-EDM, ISEM-XI International Symposium for Electromachining, Lausanne, Switzerland, April 17-21, 1995.
51. Xirouchakis, P.C. & Kiritsis, D., A generic Petri net model for disassembly planning processes, Symposium on Tools and Methods for Concurrent Engineering, TMCE Symposium '96, Budapest, May 29-31, 1996, pp.523-529.
52. Kiritsis, D. and Xirouchakis, P.C., A Software Prototype for Cost Estimation of Process Plans of Machined Parts, International Symposium on Automotive Technology and Automation,

- 29th ISATA, Florence Italy, 3rd-6th June, 1996, Mechatronics-Advanced Development Methods and Systems for Automotive Products, pp. 19-26.
53. KIRITSIS, D., KIS, T., XIROUCHAKIS, P. and NEUENDORF, K-P., Multi-level Petri nets and Multi-Agent Techniques for Integrated Dynamic Modelling for Process & Job shop Production Planning, In Proc. of the AIM Workshop, Daimler-Benz, Berlin, 26-27 September, 1996.
 54. Neuendorf, K.-P., Kiritsis, D., Kis, T. & Xirouchakis, P.C., Two-level petri net modeling for integrated process and job shop production planning, in Manufacturing and Petri Nets, a Workshop within the XVIII International Conference on Applications and Theory of Petri Nets, ICATPN'97, Toulouse, June 23-27, 1997.
 55. Kiritsis, D., Kis, T., Xirouchakis, P.C. & Neuendorf, K-P., Petri net dynamic modeling for integrated process & job shop production planning, in Proceedings of the IEPM'97 Conference, Book II, Lyon, France, October 20-24, 1997, pp. 135-144.
 56. KIRITSIS, D. & XIROUCHAKIS, P., Petri net modeling for disassembly process planning, ASME'97, Dallas, Texas, November, 1997.
 57. Neuendorf, K.-P., Schmidt, K., Kiritsis, D. & Xirouchakis, P., Workflow Modelling and Analysis with Chameleon Nets, CSP'98, Berlin, September, 1998.
 58. Kiritsis, D., Xirouchakis, P. & Gunther, C., Petri Net Representation for the Process Specification Language - Part 1: Manufacture Process Planning, proceedings of the 1st International Workshop on Intelligent manufacturing Systems, IMS-EUROPE 1998, EPFL, April 1998, pp.595-608.
 59. Kiritsis, D. & Xirouchakis, P., An Incremental Part Manufacturing Cost Estimation Algorithm Using Petri Nets, ASME DETC'98, Atlanta, September 1998.
 60. Kiritsis, D., Xirouchakis, P. & Neuendorf, K.-P., Resource Modeling for Process Planning with Petri Nets, 9th International DAAAM Symposium, Cluj-Napoca, October, 1998.
 61. Neuendorf, K.-P., Xirouchakis, P. & Kiritsis, D., Von Petrinetzen über Objekt Systeme zu Chameleon Netzen und zurück, AWP'98, Dortmund, October, 1998.
 62. Kiritsis, D. and Xirouchakis, P., Manufacturing Resource Modeling with Petri Nets, ASME DETC'99, Las Vegas, September 1999.
 63. Kiritsis, D., Gunther, C. and Xirouchakis, P., Petri Net Representation for the Process Specification Language - Part 2: Time and Resource Modeling for Scheduling, IMS-EUROPE 1999, Leuven, September 1999.
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Innovation, technology transfer, patents

CTI Project DEVIPLAN

A software prototype that has been developed during this project was delivered to the software partner CADCAMation with the intention to develop a commercial solution for mechanical SMEs for bid preparations for mechanical parts. This not been realised yet, new opportunities for further collaborations appeared recently that are under exploration.

Promise Innovation International Ltd.

Since March 2008, I participate as Scientific Advisor in the start-up Promise Innovation International Ltd., which was created as spin-off of the FP6 project PROMISE whose I am the initiator and scientific coordinator.

Provisional application for a US patent: 61/159,823.

*On 13 March 2009, together with my PhD student Mr. Aristeidis Matsokis, we submitted through the SRI of EPFL a provisional application for a US Patent entitled “**Time-centric Product Lifecycle Management (PLM) system and method for developing the same**”, with reference number: 61/159,823.*