

Lund, September 15, 2010

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## List of publications

### 1 Theses

- [1] Jacek Malec. *Pewna metoda reprezentacji wiedzy o dynamicznej scenie robota* (A Method for Representing Knowledge about Dynamical Environment of a Robot). Doctoral thesis, Technical University of Wrocław, Wrocław, Poland, 1987.
- [2] Jacek Malec and Witold Paluszyński. System generacji i wykonywania planów działań robota III generacji (A plan generation and execution system of a 3rd generation robot). Master's thesis, Institute of Technical Cybernetics, Technical University of Wrocław, Wrocław, Poland, 1981.

### 2 Patents

- [1] Andrzej Drzazga, Alexander Georgiev, Janusz Hajdul, Jacek Malec, and Marek Wnuk. Urządzenie do wstępnego przetwarzania obrazów wizyjnych w czasie rzeczywistym (A device for image preprocessing in real-time). Polish patent no. 145031, 1989.
- [2] Andrzej Drzazga, Alexander Georgiev, Jacek Malec, Lech Najdek, Robert Podsiadły, and Marek Wnuk. Sposób przetwarzania obrazów wizyjnych w czasie rzeczywistym (A method of image processing in real-time). Polish patent no. 144708, 1989.
- [3] Andrzej Drzazga, Alexander Georgiev, Jacek Malec, Lech Najdek, Robert Podsiadły, and Marek Wnuk. Urządzenie do przetwarzania obrazów wizyjnych w czasie rzeczywistym (A device for image processing in real-time). Polish patent no. 143832, 1989.

### 3 Publications in journals, books and reviewed conference papers

- [1] Mathias Haage, Jacek Malec, Anders Nilsson, Klas Nilsson and Sławomir Nowaczyk. Declarative-knowledge-based reconfiguration of automation systems Proc. 11th National Conference on Robotics, Karpacz, Poland, 9-12 September, 2010.
- [2] Jacob Persson, Axel Gallois, Anders Björkelund, Love Hafdel, Mathias Haage, Jacek Malec, Klas Nilsson and Pierre Nugues. A Knowledge Integration Framework for Robotics. International Symposium on Robotics / ROBOTIK 2010, Munich, Germany, June 7–10, 2010.

- [3] Jacek Malec. Active Logic and Practice. In: *Proc. SAIS 2009 Workshop*, Linköping Electronic Conference Proceedings, vol. 35, pp. 49-54, 2009, <http://www.ep.liu.se/ecp/035/009/>
- [4] Sławomir Nowaczyk and Jacek Malec. Learning to Evaluate Conditional Partial Plans. In: *The Sixth International Conference on Machine Learning and Applications (ICMLA'07)*, 13-15 Dec. 2007, Cincinnati, Ohio, USA.
- [5] Sławomir Nowaczyk and Jacek Malec. An Architecture for Resource Bounded Agents. In: *2nd International Symposium Advances in Artificial Intelligence and Applications (AAIA'07)*, Wisła, Poland, October 15-17, 2007.
- [6] Sławomir Nowaczyk and Jacek Malec. Inductive Logic Programming Algorithm for Estimating Quality of Partial Plans. In *Proc. 6th Mexican International Conference on Artificial Intelligence*, November 4-10, 2007, Aguascalientes, Mexico, LNCS, Springer.
- [7] Sławomir Nowaczyk and Jacek Malec. Relative Relevance of Subsets of Agent's Knowledge. In *Proc. Workshop on Logics for Resource-Bounded Agents, LRBA'07*, Durham, UK, 3-7 September 2007
- [8] Jacek Malec, Anders Nilsson, Klas Nilsson and Sławomir Nowaczyk. Knowledge-Based Reconfiguration of Automation Systems. *Proc. of the IEEE Conference on Automation Science and Engineering 2007*, September 22-25, 2007, Scottsdale, Arizona USA.
- [9] Ola Angelsmark, Jacek Malec, Klas Nilsson, Sławomir Nowaczyk and Leonardo Proserpi. Knowledge Representation for Reconfigurable Automation Systems. *Proc. of the 9th National Conference on Robotics*, Piechowice, Poland, pp. 129–138, 2006.
- [10] Mikael Asker and Jacek Malec. A Semantics for Active Logics. In G. Brewka et al., Eds., *Proc. of the 17th European Conference on Artificial Intelligence*, Riva del Garda, Italy, pp. 739–740, IOS Press, 2006.
- [11] Mikael Asker and Jacek Malec. Improving Active Consequence. In N. Alechina and T. Ågotnes, Eds., *Proc. of the Workshop on Logics for Resource-Bounded Agents*, pp. 8–21, ESSLLI, Malaga, 2006.
- [12] Jacek Malec and Sławomir Nowaczyk. Deduction and Exploratory Assessment of Partial Plans. In: *Proc. IJCAI 2005 Workshop on Planning and Learning in A Priori Unknown or Dynamic Domains*, V. Bulitko and S. Koenig (eds.), Edinburgh, Scotland, 2005, pp. 117–124.
- [13] Mikael Asker and Jacek Malec. Reasoning with Limited Resources: Active Logics Expressed as Labeled Deductive Systems. In *Bulletin of the Polish Academy of Sciences, Technical Sciences*, Vol. 53, No. 1, 2005, pp. 69–78.
- [14] Mikael Asker and Jacek Malec. On Reasoning and Planning in Real-Time: An LDS-based approach. In: *Metacognition in Computation*, Proc. of 2005 AAI Spring Symposium, Technical Report SS-05-04, AAAI Press, 2005, pp. 30–35.
- [15] Maozu Guo, Yang Liu and Jacek Malec. A New Q-Learning Algorithm Based on the Metropolis Criterion. In *IEEE Transactions on Systems, Man and Cybernetics, Part B Cybernetics*, Vol. 34, No. 5, pp. 2140–2143, 2004.
- [16] Mikael Asker and Jacek Malec. Reasoning with limited resources: Active Logics Expressed as Labelled Deductive Systems. *Proc. of the 8th National Conference on Robotics*, Polanica Zdroj, Poland, June 23-25, 2004.
- [17] Jacek Malec and Janusz Zalewski. Extended Generic Layer Architecture for Real-Time Modeling and Simulation. In: *Proc. of the 2nd Swedish-American Workshop on Modelling and Simulation*, Cocoa Beach, FL, February 2004.

- [18] Mikael Asker and Jacek Malec. Reasoning with limited resources: An LDS-based approach. In *Proc. of the 8th Scandinavian Conference on Artificial Intelligence*, Bergen Norway, November 2-4, 2003, pp. 13–24.
- [19] Adam Borkowski, Michał Gnatowski and Jacek Malec. Mobile Robot Cooperation in Simple Environments. *Proc. of the 2nd IEEE International Workshop on Robot Motion and Control (RoMoCo'01)*, pp. 109–114, Bukowy Dworek, Poland, October 2001.
- [20] Michał Gnatowski and Jacek Malec. A minimalistic model of mobile robot cooperation. (In Polish) *Proc. of the 7th National Conference on Robotics (KKR01)*, vol. 1, pp. 205–216, Ladek Zdrój, Poland, September 2001.
- [21] Roger Jonsson and Jacek Malec. Towards computing the parameters of the Simple Genetic Algorithm. In: *Proc. of the 2001 Congress on Evolutionary Computation (CEC2001)*, Seoul, Korea, 27-30 May 2001.
- [22] Jacek Malec. On augmenting reactivity with deliberation in a controlled manner. In *Balancing Reactivity and Social Deliberation in Multi-Agent Systems*, Markus Hannebauer, Jan Wendler and Enrico Pagello, eds., pp. 76–91, Springer, Berlin, LNAI 2103, 2001.
- [23] Man Lin and Jacek Malec. Control of a manufacturing cell using a generic layered architecture. In *Proc. of the Int. Workshop on Robot Motion and Control*, Kiekrz, Poland, June 1999.
- [24] Man Lin, Jacek Malec, and Simin Nadjm-Tehrani. On Semantics and Correctness of Reactive Rule-Based Systems. In *Perspectives of System Informatics*, LNCS 1755, 235–246, Springer-Verlag, 2000.
- [25] Petri Ikonen, Silvia Coradeschi, and Jacek Malec. Delayed reward in reinforcement learning: an experiment in multi-agent control. *Proc. of the 6th National Conference on Robotics*, Świeradów Zdrój, Poland, September 1998, pp 233–239.
- [26] Silvia Coradeschi, and Jacek Malec. The use of RoboCup (soccer simulation) for an Artificial Intelligence Programming course. In the special issue on education of *the Journal of Robotics Society of Japan*, vol. 16, no.4, 1998. Also in *Proc. of the RoboCup'98 Workshop*, published by Springer-Verlag.
- [27] Jacek Malec, and Dimiter Driankov. On stability of behaviour-based systems. In *Proceedings of the 3rd IFAC Symposium on Intelligent Autonomous Vehicles*, Madrid, Spain, March 1998, pp. 595–600.
- [28] Man Lin, and Jacek Malec. Timing analysis of RL programs. *Control Engineering Practice*, vol. 6, pp. 403–408, 1998. Also in *Real-Time Programming 1997*, M. Maranzana (ed.), pages 99–104, Pergamon Press, 1997.
- [29] Man Lin, Jacek Malec, and Simin Nadjm-Tehrani. The semantics of a reactive rule-based system. Research Report LiTH-IDA-R-96-35, Department of Computer Science, Linköping University, November 1996. Extended abstract in: Shyamasundar, Ueda (eds.), *Advances in Computing Science - ASIAN'97*, Springer Verlag, LNCS 1345, 1997, pp.379–380.
- [30] Jacek Malec, Magnus Morin, and Simin Nadjm-Tehrani. A layered software architecture for design and analysis of embedded systems. In *Proceedings of the 1995 International Symposium and Workshop on Systems Engineering of Computer Based Systems*, pages 169–176, Tucson, AZ, March 1995. The University of Arizona.
- [31] Jacek Malec, Magnus Morin, and Ulf Palmqvist. Driver support in intelligent autonomous cruise control. In *Proceedings of the IEEE Intelligent Vehicles Symposium '94*, pages 160–164, Paris, France, October 1994.

- [32] Jacek Malec. A unified approach to intelligent agency. In Michael Wooldridge and Nicholas R. Jennings, editors, *Intelligent Agents*, pages 233–244. Springer-Verlag, 1995.
- [33] Jacek Malec and Per Österling. Driver support system for traffic manoeuvres. In G. Ambrosino, M. Bielli, and M. Boero, editors, *Artificial Intelligence Applications to Traffic Engineering*, pages 283–318. VSP International Science Publishers, Zeist, The Netherlands, 1994.
- [34] Jacek Malec. On implementing behaviours using a three-layered architecture. In Adam Borkowski and James L. Crowley, editors, *Proceedings of the 2nd International Symposium on Intelligent Robotic Systems*, pages 62–69, Grenoble, France, July 1994.
- [35] Jacek Malec. Behaviour-based autonomous systems: towards an analysis framework. In Robert Trappi, editor, *Cybernetics and Systems '94*, pages 1419–1426. World Scientific, 1994.
- [36] Jacek Malec. Autonomous robot control using a three-layered architecture. In *Proceedings of the Scandinavian Symposium on Robotics*, pages 183–187, Stockholm, Helsinki, October 1994.
- [37] Jacek Malec. Situation assessment in traffic scenarios. In *Proceedings of the Abstract Intelligent Agents '94 Workshop*, ENEA, Rome, Italy, February 1994.
- [38] Jacek Malec. On formal analysis of emergent properties. In C. Bäckström and E. Sandewall, editors, *Current trends in AI planning*, pp. 213–225, IOS Press, Amsterdam, 1994.
- [39] Jacek Malec and Magnus Morin. An AI-based design of a driver information unit. In *Proceedings of the IEEE Vehicle Navigation and Information Systems Conference*, pages A3–A7, Ottawa, October 1993.
- [40] Jacek Malec and Magnus Morin. A pre-intelligent driver information unit. In *Proceedings of the IEEE Intelligent Vehicles '93 Symposium*, pages 317–322, Tokyo, July 1993.
- [41] Frank van Harmelen, Ramon Lopez de Mantaras, Jacek Malec, and Jan Treur. Comparing formal specification languages for complex reasoning systems. In Jan Treur and Thomas Wetter, editors, *Formal Specification of Complex Reasoning Systems*, pages 257–282. Ellis Horwood, 1993.
- [42] Jacek Malec. On semantics of robot behaviour languages. In *Proceedings of the Fourth National Conference on Robotics*, Technical University of Wrocław, Poland, September 1993.
- [43] Jacek Malec. Complex behavior specification for autonomous systems. In *Proc. IEEE International Symposium on Intelligent Control '92*, pages 178–183, Glasgow, Scotland, August 1992.
- [44] Jacek Malec. Applied knowledge representation. *CC-AI: The Journal for the Integrated Study of Artificial Intelligence, Cognitive Science and Applied Epistemology*, 9(1):9–41, 1992.
- [45] Jacek Malec. Process Transition Networks: What Are They For? In *Proceedings of the IEEE Systems, Man and Cybernetics Conference, Charlottesville, VA*, pages 1177–1182, October 1991.
- [46] Hua Shu and Jacek Malec. From Process Transition Networks to Behavior Automata. In *Proceedings of the 1991 IEEE International Symposium on Intelligent Control, Arlington, VA*, pages 257–262. IEEE Control Systems Society, 1991.
- [47] Jacek Malec. How to pass an intersection. In *Proc. of the Prometheus Pro-Art Workshop on Intelligent Co-Pilot*, pages 167–182, Grenoble, France, 1991.

- [48] Jacek Malec, Reza Farahani, Magnus Morin, Simin Nadjm-Tehrani, Per Österling, and Erik Sandewall. An integrated software environment for development of driver support systems. In *Proc. of the Prometheus Pro-Art Workshop on Intelligent Co-Pilot*, pages 31–39, Grenoble, France, December 1991.
- [49] Jacek Malec. Passing an intersection, or automata theory is still useful. In Brian Mayoh, editor, *Proc. of the Scandinavian Conference on Artificial Intelligence – 91*, pages 258–265. IOS Press, 1991.
- [50] Jacek Malec. Process Transition Networks: A formal graphical knowledge representation tool. In Z. W. Ras and M. Zemankova, editors, *Methodologies for Intelligent Systems, 6th International Symposium*, pages 193–202. Springer-Verlag, October 1991. Lecture Notes in Artificial Intelligence 542.
- [51] Jacek Malec. Introduction to knowledge representation problems. In Leszek Chmielewski and Witold Kosiński, editors, *Lecture Notes on Computer Vision and Artificial Intelligence*, pages 173–204. Ossolineum, Wrocław, Poland, 1990.
- [52] Jacek Malec. Dynamic scene description system — ODYS. In V. Utkin and Ü. Jaaksoo, editors, *Proceedings 11th IFAC World Congress, vol. 7*, pages 146–151, Tallinn, Estonia, 1990.
- [53] Jacek Malec. Maszyny Lispowe (Lisp Machines). *Informatyka*, (5 and 6):7–11 and 19–22, 1990.
- [54] Jacek Malec. Knowledge elicitation during dynamic scene description. *SIGART Newsletter*, (108):162–163, April 1989.
- [55] Andrzej Kaliś, Jacek Malec, and Jerzy M. Surowski. The design of a Lisp Machine based on bit-slice microprocessors. In *Proceedings RELCOMEX'89 Conference*, pages 457–464. Ossolineum, Wrocław, Poland, 1989.
- [56] Andrzej Kaliś, Jacek Malec, and Jerzy M. Surowski. Overview of the Lisp Machine project. In *Proceedings MICROSYSTEM'89 Conference*, pages 289–292. CSAV, Karlovy Vary, Czechoslovakia, 1989.
- [57] Jacek Malec. Workstations for symbolic computations. In *Proceedings of MICROSYSTEM'89 Conference*, pages 276–282, Karlovy Vary, Czechoslovakia, 1989.
- [58] Jacek Malec. A knowledge representation system for dynamic scene analysis. In *Proceedings 3rd Int. Symposium on Computer and Information Sciences*, Izmir, Turkey, 1988.
- [59] Jacek Malec. Komputery do przetwarzania symbolicznego w języku LISP (Computers for symbolic processing in LISP). In *Proceedings of the Second National Conference on Robotics*, Wrocław, Poland, 1988, pages 133–143.
- [60] Jacek Malec. Metoda reprezentacji wiedzy o dynamicznej scenie robota (A knowledge representation method for analysing dynamic scene of a robot). In *Proceedings of the Second National Conference on Robotics*, Wrocław, Poland, 1988, pages 179–189.
- [61] Jacek Malec. Reasoning underlying construction of the model of dynamical world. In L. O. Hertzberger and F. C. A. Groen, editors, *Intelligent Autonomous Systems*, pages 382–385, Amsterdam, 1987. North-Holland.
- [62] Jacek Malec and Marek Wnuk. Sztuczna inteligencja w robotyce (Artificial intelligence in robotics). In Adam Morecki, editor, *Problems of Contemporary Technics, vol 25: Robotics*, pages 55–96. Polish Scientific Publishing Company, Warsaw, Poland, 1987.
- [63] Jacek Malec. Problemy reprezentowania wiedzy w robotycznych systemach sztucznej inteligencji (Problems of knowledge representation in AI systems for robotics). In *Proceedings 2nd Symposium on Artificial Intelligence*, pages 114–123, Warsaw, Poland, 1987.

- [64] Jacek Malec and Marek Wnuk. MILISP - mikrokomputer przeznaczony do implementacji systemów sztucznej inteligencji (MILISP — a microcomputer for implementing artificial intelligence systems). In *Proceedings INFOGRYF 86*, pages 153–164, Kołobrzeg, Poland, 1986.
- [65] Andrzej Drzazga, Alexander Georgiev, Jacek Malec, and Marek Wnuk. Rozpoznawanie przedmiotów i ich orientacji na podstawie obrazów binarnych (Object and orientation recognition on the basis of binary images). In *Proceedings of Conference on Signal Transformation*, pages 195–202. ATR Bydgoszcz, Poland, 1986.
- [66] Jacek Malec and Marek Wnuk. Sztuczna inteligencja w robotyce (Artificial intelligence in robotics). In *Proceedings of Symposium on Robotization of Mining Industry*, pages 34–41, Szczyrk, Poland, 1985.
- [67] Jacek Malec. Architektura systemu sterowania robotem inteligentnym (An architecture of a control system of an intelligent robot). In *Proceedings of the National Conference on Robotics*, Wrocław, Poland, 1985, pages 159–166.
- [68] Andrzej Drzazga, Jacek Malec, and Marek Wnuk. Procesor wizyjny robota przemysłowego (A vision processor for industrial robot). In *Proceedings of the National Conference on Robotics*, Wrocław, Poland, 1985, pages 15–22.
- [69] Jacek Malec and Marek Wnuk. MILISP - a microcomputer for artificial intelligence purposes. In *Proceedings of the International School on Microcomputers and Their Applications*, pages 83–89, Karpacz, Poland, 1984.
- [70] Jacek Malec. The control system of an intelligent robot acting on dynamic scenes. In *Proceedings ECAI-84*, pages 557–558, Pisa, 1984. Elsevier North-Holland.
- [71] Jacek Malec. Scenarios as a tool for dynamic scene representation. In R. Trappl, editor, *Cybernetics and Systems Research 2*, pages 781–786. Elsevier North-Holland, Amsterdam, 1984.

## 4 Technical reports

- [1] Ola Angelsmark, Jacek Malec, Klas Nilsson, Sławomir Nowaczyk and Leonardo Prospero. Knowledge Representation for Reconfigurable Automation Systems (abstract). Proc. of the ICRA-2007 Workshop on Semantic Information in Robotics, Rome, Italy, April 10, 2007
- [2] Jacek Malec. Some thoughts on robotics for education. Accepted to the *Proc. of the 2001 AAAI Spring Symposium on Robotics and Education*, Stanford University, March 2001. AAAI Press.
- [3] Jacek Malec and Magnus Morin. Driver Information Unit: the concept and its implementation. DALTM final report 1994. Technical Report LAIC-IDA-95-TR2, RKLLAB, Linköping University, January 1995. Distribution limited to DALTM partners.
- [4] Jacek Malec and Magnus Morin. Driver Information Unit software: User’s guide. DALTM annual report 1993. Technical Report LAIC-IDA-94-TR4, Linköping University, 1994. Distribution limited to DALTM partners.
- [5] Magnus Morin and Jacek Malec. Driver Information Unit fluent library. Technical Report LAIC-IDA-94-TR3, Linköping University, 1994. Distribution limited to DALTM partners.
- [6] Jacek Malec. Timed Process Transition Networks. Technical Report IDA-RKL-93-TR13, Department of Computer and Information Sciences, Linköping University, Linköping, Sweden, June 1993.

- [7] Jacek Malec. Process Transition Networks: The Final Report. Research Report LiTH-IDA-R-92-07, Department of Computer Science, Linköping University, 1992.
- [8] Jacek Malec. Piecewise constant acceleration package. Technical Report LAIC-IDA-90-TR30, Department of Computer Science, Linköping University, 1990.
- [9] Zbigniew Jurkiewicz, Andrzej Kaliś, and Jacek Malec. Sprawozdanie z prac nad oprogramowaniem systemowym Maszyny Lispowej ICT (Report on systems software for ICT Lisp Machine). Technical Report PRE 35/89, Institute of Technical Cybernetics, Technical University of Wrocław, Poland, 1989.
- [10] Jacek Malec. Sprawozdanie z prac nad oprogramowaniem komunikacyjnym IBM-PC ↔ Maszyna Lispowa ICT (Report on communications software IBM-PC ↔ ICT LM). Technical Report SPR 34/89, Institute of Technical Cybernetics, Technical University of Wrocław, Poland, 1989.
- [11] Jacek Malec. Sprawozdanie z prac nad rozwojem sprzętu Maszyny Lispowej ICT (Report on ICT Lisp Machine hardware improvements). Technical Report SPR 33/89, Institute of Technical Cybernetics, Technical University of Wrocław, Poland, 1989.
- [12] Jacek Malec. Dokumentacja prototypu Maszyny Lispowej ICT (Documentation of the ICT Lisp Machine). Technical Report SPR 32/89, Institute of Technical Cybernetics, Technical University of Wrocław, Poland, 1989.
- [13] Jacek Malec. MIKROAS — a smart microassembler. Technical Report PRE 1/89, Institute of Technical Cybernetics, Technical University of Wrocław, Poland, 1989.
- [14] Andrzej Kaliś, Jacek Malec, and Jerzy M. Surowski. Dokumentacja modułów doświadczalnych procesora Maszyny Lispowej (Documentation of the experimental modules of Lisp Machine processor). Technical Report SPR 92/88, Institute of Technical Cybernetics, Technical University of Wrocław, Poland, 1988.
- [15] Jacek Malec and Jerzy M. Surowski. Sprawozdanie z prac nad oprogramowaniem systemowym Maszyny Lispowej (Report on system level programs of the Lisp Machine). Technical Report SPR 91/88, Institute of Technical Cybernetics, Technical University of Wrocław, Poland, 1988.
- [16] Jacek Malec. MIKROAS — uniwersalny mikroassembler dla mikroprocesorów segmentowych (MIKROAS — a universal microassembler for bit-slice microprocessors). Technical Report SPR 75/88, Institute of Technical Cybernetics, Technical University of Wrocław, Poland, 1988.
- [17] Jacek Malec. Porównanie możliwości programowania robotów IRb-6/60, IRp-6/60 i IRB-6/60/90/1000 (A comparison of programming capabilities of various models of ASEA IRB robots). Technical Report SPR 22/88, Institute of Technical Cybernetics, Technical University of Wrocław, Poland, 1988.
- [18] Jacek Malec. Projekt konstrukcji komputera lispowego (Proposal for a LISP computer design). Technical Report PRE 104/87, Institute of Technical Cybernetics, Technical University of Wrocław, Poland, 1987.
- [19] Jacek Malec. Metody reprezentacji wiedzy dla potrzeb systemów sztucznej inteligencji – raport-protokół zdawczo-odbiorczy (Knowledge representation methods for AI systems, 2nd year’s progress report). Technical Report SPR 42/87, Institute of Technical Cybernetics, Technical University of Wrocław, Poland, 1987.
- [20] Jacek Malec and Piotr Malec. Opis programów obsługi bazy danych literaturowych z dziedziny sztucznej inteligencji (Description of an artificial intelligence bibliography data base). Technical Report SPR 34/87, Institute of Technical Cybernetics, Technical University of Wrocław, Poland, 1987.

- [21] Andrzej Drzazga, Marek Kisielewicz, Jacek Malec, and Marek Wnuk. Urządzenie do rejestracji oscylogramów (A device for registering oscillograms). Technical Report PRE 67/87, Institute of Technical Cybernetics, Technical University of Wrocław, Poland, 1987.
- [22] Jacek Malec. Metody reprezentacji wiedzy dla potrzeb systemów sztucznej inteligencji (Knowledge representation methods for artificial intelligence systems). Technical Report SPR 15/86, Institute of Technical Cybernetics, Technical University of Wrocław, Poland, 1986.
- [23] Jacek Malec. Wstępny projekt komputera osobistego przeznaczonego do badań w dziedzinie sztucznej inteligencji (A preliminary project of a personal computer for artificial intelligence research). Technical Report SPR 14/86, Institute of Technical Cybernetics, Technical University of Wrocław, Poland, 1986.
- [24] Andrzej Drzazga et al. Procesor wizji zrealizowany w standardzie INTEL DIGIT-PROWAY: dokumentacja wstępna (A vision processor conforming the INTEL DIGIT-PROWAY standard: Preliminary documentation). Technical Report PRE 6/86, Institute of Technical Cybernetics, Technical University of Wrocław, Poland, 1986.
- [25] Jacek Malec, Kazimierz Sycz, Dorota Więckowska, and Stanisław Zimnocho. Metody reprezentacji wiedzy w sztucznej inteligencji (Knowledge representation methods in artificial intelligence). Unpublished manuscript, 1986.
- [26] Andrzej Drzazga et al. Preprocesor wizji w standardzie INTEL DIGIT-PROWAY (A vision preprocessor conforming the INTEL DIGIT-PROWAY standard). Technical Report SPR 18/85, Institute of Technical Cybernetics, Technical University of Wrocław, Poland, 1985.
- [27] Andrzej Drzazga, Alexander Georgiev, Jacek Malec, Lech Najdek, and Marek Wnuk. Sterownik napędu osi robota (A robot axis drive controller). Technical Report SPR 13/85, Institute of Technical Cybernetics, Technical University of Wrocław, Poland, 1985.
- [28] Jacek Malec. REGEX — heurystyczny algorytm syntaktycznego porównywania wyrażeń regularnych (REGEX — an heuristic algorithm for syntactic comparison of regular expressions). Technical Report PRE 40/85, Institute of Technical Cybernetics, Technical University of Wrocław, Poland, 1985.
- [29] Andrzej Drzazga, Alexander Georgiev, Jacek Malec, and Marek Wnuk. Model procesora wizji dla robota przemysłowego (A model of industrial robot's vision processor). Technical Report SPR 24/84, Institute of Technical Cybernetics, Technical University of Wrocław, Poland, 1984.
- [30] Jacek Malec and Marek Wnuk. MILISP - a small but efficient Lisp machine. Technical Report PRE 83/84, Institute of Technical Cybernetics, Technical University of Wrocław, Poland, 1984.
- [31] Jacek Malec. Płyta pamięci dynamicznej RAM 16/64k (Dynamic RAM 16/64k board). Technical Report PRE 71/84, Institute of Technical Cybernetics, Technical University of Wrocław, Poland, 1984.
- [32] Andrzej Drzazga, Janusz Hajdul, Jacek Malec, and Marek Wnuk. Hardware'owy układ wstępnego przetwarzania obrazu (Hardware image preprocessor). Technical Report SPR 14/83, Institute of Technical Cybernetics, Technical University of Wrocław, Poland, 1983.
- [33] Maria Chałon et al. Mikroprocesory i mikrokomputery w pracach naukowo-badawczych i dydaktyce (Microprocessors and microcomputers in research and education). Technical Report SPR 15/83, Institute of Technical Cybernetics, Technical University of Wrocław, Poland, 1983.



- [34] Włodzimierz Barański et al. Procesor Obrazów Pogody (Weather Image Processor). Technical Report SPR 6/83, Institute of Technical Cybernetics, Technical University of Wrocław, Poland, 1983.
- [35] Jacek Malec and Marek Wnuk. Klawiatura alfanumeryczna (An alphanumeric keyboard). Technical Report PRE 56/83, Institute of Technical Cybernetics, Technical University of Wrocław, Poland, 1983.
- [36] Włodzimierz Barański et al. Procesor Obrazów Pogody: Struktura logiczna (Weather Image Processor: The logic structure). Technical Report SPR 18/82, Institute of Technical Cybernetics, Technical University of Wrocław, Poland, 1982.
- [37] Jacek Malec and Witold Paluszyński. Automatyczne planowanie działań i jego realizacja na przykładzie systemu STRIPS (Automated planning and plan execution, shown on the STRIPS example). Technical Report PRE 54/80, Institute of Technical Cybernetics, Technical University of Wrocław, Poland, 1980.