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CURRICULUM VITAE

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Education

- 1969 M.Sc. Wroclaw University of Technology, Poland(Computer Engineering)
- 1972 M.Sc. The University of Wroclaw, Poland (Mathematics)
- 1972 Ph.D. Institute of Technical Cybernetics, Wroclaw University of Technology, Poland (Fault Diagnosis of Digital Systems, see: [1])
- 1975 D.Sc. (Dr. Hab., habilitation, *venia legendi*), Institute of Technical Cybernetics, Wroclaw University of Technology Poland (Fault Diagnosis of Digital Systems, see: [2])

Experience

- 1973 – 1975 *Assistant Professor*, Institute of Technical Cybernetics, Wroclaw University of Technology, Poland
Lecturer, Department of Mathematics, Wroclaw University, Poland
- 1976 – 1984 *Assistant Professor*, Department of Computer Science and Engineering, Institute for Mechanical and Electrical Engineering (TU Sofia), Sofia, Bulgaria
- 1984 – 1996 *Associate Professor*, Department of Computer Science and Engineering Institute for Mechanical and Electrical Engineering (TU Sofia), Sofia, Bulgaria
- 1996 – 1998 *Full Professor*, Department of Computer Science and Engineering, Institute for Mechanical and Electrical Engineering (TU Sofia), Sofia, Bulgaria
- 1998 – 2004 *Full Professor*, Department of Informatics, Wroclaw University of Technology, Poland
- 2004 – 2008 *Full Professor*, Institute of Applied Informatics, Wroclaw University of Technology, Poland (Chairman of the Scientific Seminary of this Institute: 2005-2008)
- 2008 – present *Full Professor*, Institute of Computer Science, Wroclaw University of Technology, Poland (Chairman of the Scientific Seminary of this Institute: 2009 – present)

Societies and Organizations

Chairman of the “Testing, Diagnosis and Reliability of Electronic Circuits, Digital Computers and Systems” Section of the Bulgarian Scientific and Technical Society (Union for Electrotechnics, Electronics and Communications, 1986-1998)

State Qualifying Committee for Academic Degrees (Member of Council for Electronics and Computer Engineering, 1984-87, Member of Commission for Electronics and Computer Engineering,1994-95, Scientific Secretary of Council for Electronics and Computer Engineering, 1995-1998)

Member of Council of Computer Systems Faculty, Institute for Mechanical and Electrical Engineering (1995-1998, TU Sofia)

Member of the National Science FUND (Ministry of Education, Science and Technologies. Expert Panel: Informatics,1995-1998)

Member of The New York Academy of Sciences, 1995 – present

Member of the Planetary Society,1996 – present

Marquis Who's Who in Science and Engineering, 4th Jubilee Edition (1998-1999)
Gesellschaft für Informatik e.V., Bonn, Germany, Mitgliedsnummer: FG-28269 (2002 – present)
Member of Council of Informatics and Management Faculty, TU Wroclaw, Poland (1998 – present)
Golden Book of Polish Science, Helion S.A. Poland (2005,2006,2011)
One-hundred years Higher Technical Schools in Wroclaw, Medal Award 2011
Wroclaw University of Technology Gold Badge Award 2012
Wroclaw University of Technology Bronze Medal Award for many-years service 2012

Visiting Professor

GI Advanced Course on Petri Nets and Related System Models, Bad Honef (Germany), 2 weeks, 1986
Institute for Mechanical and Electrical Engineering, Moscow (Russia), 1 week, 1987
Technical University of Wroclaw, Wroclaw (Poland), 1 week, 1987
Higher Pedagogical School, Rzeszow (Poland), 1 week, 1989 (invited lecture)
Université d'Aix – Marseille II, Marseille (France), 1 week, 1994 (invited lecture)
Technical University of Eindhoven, Eindhoven (The Netherlands), 1 week, 1994 (invited lecture)
University of Victoria, Victoria, B.C. (Canada), 1 week, 1997 (external examiner of Ph.D. dissertation, an invited lecture)
University of Bournemouth (UK) 8-12 Oct. 2006 (session chairman).
Royal Institute of Technology (KTH School of Information and Communication Technology), Stockholm, Sweden, 1 week, 2007 (external examiner of Ph.D. dissertation).

Supervisor

7 Ph.D. dissertations in Computer Science and Engineering (mainly in the area of digital system fault diagnosis)

Program Committee Member and / or Reviewer

Founder and Chairman of the First National Conference on “*Testing, Diagnosis and Reliability of Electronic Circuits, Digital Computers and Systems*”, 1986, Sofia, Bulgaria.
Founder and Chairman of the First National Seminar on “*Petri Nets and Related System Models*”, 1988, Sofia, Bulgaria.
National Conference with International Participation AUTOMATICS AND INFORMATICS'95, 1995, Sofia, Bulgaria.
First Polish Conference on “*Technical Diagnosis of Digital Devices*”, 1973, Wroclaw, Poland.

Fifth Anniversary International Conference RELCOMEX'89, 1989, Książ Castle, Poland (sponsored by IEEE, IASTED, The Polish Information Processing Society and The Association of Polish Electrical Engineers).

Reviewer, *The Ninth International Conference on VLSI Design*, 1996, Bangalore, India (sponsored by VLSI Society of India in cooperation with ACM SIGDA, IEEE Circuits and Systems Society, and IEEE Computer Society, see: bushnell@caip.rutgers.edu).

11th International Conference “*Systems for Automation of engineering and research*” and DECUS NUG Seminar'97, 1997, Varna, Bulgaria.

External examiner of Ph.D. dissertation: Dubrova E.V., *Boolean and multiple-valued functions in combinational logic synthesis* (1997) 128pp, University of Victoria, Victoria, B.C. Canada.

Reviewer, *1999 International Symposium on Multiple Valued Logic*, Germany.

14th *International Conference on Systems Science*, 2001, Wrocław, Poland (session chairman).

Reviewer, *5th Polish Conference on Software Engineering*. 2003, Szklarska Poręba, Poland.

5th Polish Conference on Knowledge Engineering and Expert Systems, 2003, Wrocław, Poland (session chairman).

Reviewer, *Information Processing Letters*, Paper IPL02-22, Elsevier Science NI, 2002.

The *7th World Multiconference on Systemics, Cybernetics and Informatics SCI 2003*, Orlando, Florida USA, July 27-30 2003: an invitation to the session co-chairing activity.

Reviewer, *11th Polish Conference on Real-Time Systems*, 2004, Ustroń, Poland: papers 2004/09 and 2004/11.

15th *International Conference on Systems Science*, 2004, Wrocław, Poland (session chairman).

External examiner of Ph.D. dissertation: Immanuel B., *A study on Petri net models and system diagnosis* (2005) 150pp, University of Madras, India.

The *9th World Multiconference on Systemics, Cybernetics and Informatics SCI 2005*, Orlando, Florida USA, July 10-13 2005: an invitation to the session co-chairing activity, reviewer.

The *3rd International Conference on Computing, Communication and Control Technologies CCCT'05*, Austin, Texas (Silicon Hills) USA, July 24-27 2005: an invitation to the session co-chairing activity.

The *3rd International Conference on Education and Information Systems: Technologies and Applications EISTA 2005*, Orlando, Florida USA, July 14-17 2005: an invitation to the session co-chairing and reviewing activity.

The *11th International Conference on Information Systems Analysis and Synthesis: ISAS'05* and *2nd International Conference on Cybernetics and Information Technologies, Systems and Applications: CITSA'05*, Orlando, Florida USA, July 14-17 2005: an invitation to the session co-chairing and reviewing activity.

Reviewer, *7th Polish Conference on Software Engineering*. 2005, Kraków, Poland.

Reviewer and PC member, *International Conference on Computational Science*, The University of Reading, UK, May 28-31 2006: Workshop on Knowledge and Information Management in Computer Communication Systems KIMCCS 2006. ID no. #1146 (ID no. of reviewed papers: 255, 261, 364, and 406).

The *10th World Multiconference on Systemics, Cybernetics and Informatics SCI 2006* and also in *KCC 2006*, Orlando, Florida USA, July 16-19 2006: invited session activity.

Reviewer and Session chairman, +10th Int. Conference on Knowledge Based Intelligent Information & Engineering Systems, Bournemouth, UK Main Conference date: 9, 10 & 11 October 2006 Invited Session on Communicative Intelligence 2006 (ID no. of reviewed papers: k06is-223,-310,-353, k06gen-045,-163).

Reviewer, *The International Journal of Hybrid Intelligent Systems*, Paper ijhis – IT, IOS Press (2006), The Netherlands and Advanced Knowledge International, Australia.

Reviewer, *The International Journal of Knowledge-based and Intelligent Engineering Systems*, Paper kesjpr05-081 (2006), Paper kesj07-002 (2007), Paper kesj07-042 (2007), Paper kesj07-054 (2007), Paper kesj11-038 (2011) IOS Press, The Netherlands (KES Journal Reviewer Board member: senior reviewer 2006 - present).

A short review of W. Guzicki and P. Zakrzewski's "*Lectures in mathematics: Introduction to Set Theory*" (PWN scientific publishing house, Warsaw 2005, 354pp.): requested by PWN (2006).

Session chairman, *The 6th Polish Conference on Knowledge Engineering and Expert Systems*, June 21-23 Wroclaw 2006.

External examiner of Ph.D. dissertation: Vijaya R., *A study on magic labeling of graphs* (2006) 101pp, University of Madras, India.

Reviewer, *The e-Informatica International Journal*, Paper 1/T06 (2006), Paper 2/T07 (2007), Paper 73/T08 (2008), TU Wroclaw, Poland (e-Informatica Journal PC and Reviewer Board member: 2007 - present).

External examiner of Ph.D. dissertation: Färm P., *Logic synthesis using simulated annealing* (2007)157pp, Royal Institute of Technology (KTH School of Information and Communication Technology), Stockholm, Sweden.

Reviewer and PC member, The 2007 International Conference on Artificial Intelligence and Pattern Recognition AIPR-07, July 9-12 Orlando, FL USA.

Reviewer and PC member, *The 2007 International Conference on Enterprise Information Systems and Web Technologies EISWT-07*, July 9-12 Orlando, FL USA (Paper eiswt112 2007).

Reviewer, *First International KES Symposium on Agent and Multi-Agent Systems – Technologies and Applications KES-AMSTA*, Wroclaw, Poland, May 31 – June 01 2007 (ID no.of reviewed papers: ams07-071, ams07-090, ams07-329).

Reviewer, *The 11th International Conference on Knowledge-Based and Intelligent Information and Engineering Systems KES 2007*, Vietri sul Mare, Italy, September 12-14 2007 (ID no. of reviewed paper: k07gen-240, k07gen-243, k07gen-019).

Journal of Universal Computer Science, Springer (member of the Editorial Board: 2007 – present, Reviewer: jucs-czap04, jucs-yuang07, jucs-aigu08, jucs-bon-coll1).

Reviewer, *International Journal of Intelligent Information and Database Systems*: papers IJIIDS-3-07, IJIIDS-13-07, IJIIDS-11740 and IJIIDS-25572.

Reviewer, *IEEE Transactions on Automatic Control*: paper TAC 07-416, IEEE USA, 2007. Technical Reviewer Board Member for 2007 year.

Ph.D. dissertation Examiner: Zgrzywa M, *A method of consensus determination in the case of dependencies of attributes describing conflict profiles* (2007) 106pp, Wroclaw University of Technology, Poland.

Reviewer and PC member, *The 2008 International Conference on Artificial Intelligence and Pattern Recognition AIPR-08*, July 7-10 Orlando, FL USA (Paper aipr167 2008).

Reviewer and PC member, *The 2008 International Conference on Enterprise Information Systems and Web Technologies EISWT-08*, July 7-10 Orlando, FL USA.

Reviewer and PC member, *The 12th International Conference on Knowledge-Based and Intelligent Information and Engineering Systems KES 2008*, Zagreb, Croatia, September 3-5, 2008 (Papers: k08gen-061, k08gen-083, k08is-009 2008)

Reviewer, *Neurocomputing*, Elsevier NL, Paper NEUCOM-D-07-00735 (2007), Paper NEUCOM-D-07-00717 (2007) (Reviewer Board member: 2007 - present).

Reviewer and PC member, *The Twenty Second International Conference on Industrial, Engineering & Other Applications of Applied Intelligent Systems*. June 24-27, 2009 Tainan, Taiwan (Papers: iwekss / 310 and iwekss / litwin_dk 2009)

Reviewer, *International Journal of Computational Intelligence Research*, Research India Publications, India (Paper ijcir 2959 2009)

Reviewer, *Systems Science. International Journal*, Poland, (Paper ssc 13 2009)

Reviewer, *Eighth International Conference on Parallel Processing and Applied Mathematics PPAM09*, Wrocław, Poland, September 13-16, 2009 (Papers: ppam03, ppam42).

Reviewer, *Computing and Informatics Journal*, Slovakia, (Paper 19106-V1 2009)

Sesion chairman, *The Seventeenth International Conference on System Science*, September 14-16, Wrocław, Poland 2010.

Reviewer, *International Journal of Data Mining, Modelling and Management*, Inderscience Publishers, Switzerland (Paper IJDMMM-8450 2011)

Dr. Tabakow is currently a lecturer in the following three topics: "Discrete Structures", "Fault Diagnosis of Digital Systems", and "Petri Nets". His research interests are primarily in mathematical methods for digital system test generation and fault diagnosis. Areas of main research interests: system diagnosis, discrete structures, formal logic, and Petri nets. He has more than seventy publications all in the above given areas

List of Publications

- [1] Tabakow I.G., *A Method for Technical Diagnosis of Digital Computer Systems*. Wrocław (1972) 115pp, in Polish (deposited in Library of the Institute of Technical Cybernetics of Wrocław University of Technology: Ph.D. Thesis).

Monographs

- [2] - - , *Technical diagnosis of information nets*. Scientific Papers of the Institute of Technical Cybernetics of Wrocław University of Technology No.17, Monographs No.2, Wrocław (1974)84pp, in Polish (deposited in Library of Congress, Washington, call number: TJ 212. B74 nr.17, Alternative class.: TK5105.5: D.Sc. Thesis).
- [3] - - . *Theory of the diagnosable systems. Fault distinguishability in information nets*. Scientific Papers of the Institute of Technical Cybernetics of Wrocław University of Technology No.23, Monographs No.5, Wrocław (1975)145pp, in Polish (deposited in Library of Congress, Washington, call number: QA76.6.T3).
- [4] - - , *Introduction to Petri Nets*. Monograph, Sofia (1981) 130pp. in Bulgarian (deposited in Central Science-Techn. Library, Sofia, see Arbeitspapiere der GMD 212 (1986) 89).

- [5] - - , *Digital circuits and systems: test generation and fault distinguishability. A mathematical approach*. Of. Wyd. TU Wroclaw, monograph Wroclaw University of Technology ISBN 83-7085-551-2 (2001), 193pp.

Technical Reports ([6 – 12]: in "Acta Polytechnicae Wratislaviensis")

- [6] - - , *A Method of Game Oriented Diagnostic System Synthesis*. Reports of the Institute of Technical Cybernetics of Wroclaw University of Technology No.29, Wroclaw (1973), in Polish.
- [7] - - , *Some Aspects of the Operating Systems*. Reports of the Institute of Technical Cybernetics of Wroclaw University of Technology No.50, Wroclaw (1973), in Polish.
- [8] - - , *An Evaluation of the Mean Time of Fault Isolation in Information Nets*. Reports of the Institute of Technical Cybernetics of Wroclaw University of Technology No.56, Wroclaw (1973), in Polish.
- [9] - - , *Mean Time of Fault Isolation in an Information Net with m Machines Having the Same Number of Diagnosable Elements*. Reports of the Institute of Technical Cybernetics of Wroclaw University of Technology No.68, Wroclaw (1973), in Polish.
- [10] - - , *An Interpretation of the Process of the Control Tests Set Optimization*. Reports of the Institute of Technical Cybernetics of Wroclaw University of Technology No.113, Wroclaw (1974), in Polish
- [11] - - , *A Problem of the Optimization of the Mean Cost of a Diagnostic Tree (Part I)*. Reports of the Institute of Technical Cybernetics of Wroclaw University of Technology No.185, Wroclaw (1974), in Polish.
- [12] - - , *Fault Distinguishability in Information Nets*. Reports of the Institute of Technical Cybernetics of Wroclaw University of Technology No.186, Wroclaw (1974), in Polish.
- [13] - - , *Digital circuits and systems: test generation and fault distinguishability considerations. Part One*, Report 21 / 98 , Wroclaw University of Technology, (1998) in English.
- [14] - - , *Petri Nets Theory. Some introductory notions*. Report SPR 8 /99 , Wroclaw University of Technology, (1999) in English.
- [15] - - , *Discrete structures. Part 1: Propositional calculus*. Report 019 / 01, Wroclaw University of Technology, (2001) in English.

Patents

- [16] - - , *Circuit for Electrical Voltage Control*. PatentNo.P-163356/z 14.06.1973, UP PRL.

Journal Publications

- [17] - - , *Diagnostic Experiments with Modulo n Counters*. Automatics and Computer Technics 6, BG, in Bulgarian (1971) 44-52.
- [18] - - , *A Method for Technical Diagnosis of Digital Computer Systems*. Scientific Papers of the Institute of Technical Cybernetics of Wroclaw University of Technology, Wroclaw, PL, in Polish (1972) 39-66.
- [19] - - , *Unilateral Optimization of Dendrid Two-Persons Multistage Diagnostic Game*. Foundations of Control 4(2), Polish Academy of Sciences, Gliwice - Krakow - Warszawa, PL, in Polish (1974) 171-189.

- [20] - - , *Test Generation for Sequential Logic Circuits Using Petri Nets*. Petri Net Newsletter 15, Germany (1983) 5-10.
- [21] - - , *A Note on the Test Generation for Sequential Logic Circuits Using Petri Nets*. Petri Net Newsletter 17, Germany (1984) 44-47.
- [22] - - , *Multi-Valued Interpreted Petri Nets and Test Generation*. Petri Net Newsletter 24, Germany (1986) 21-29.
- [23] - - , *Fast test generation for m-logic combinational circuits*. International Journal of Electronics 66, UK (1989) 57-62.
- [24] - - , *Boolean Interpreted Petri Nets: The Behaviour Equivalence, Reduction and PN-Fault Detectability Considerations*. Petri Net Newsletter 32, Germany (1989) 8-17. Also in the Proceedings of the Fifth International Conference RELCOMEX'89, Poland (1989) 71-78.
- [25] - - , *Test Generation for m-logic combinational Circuits: A Deterministic and Probabilistic Approach*. Electrical Industry and Instrument-Building 8, BG, in Bulgarian (1989) 9-12 (Accepted for the program of the Second Nat. Conference on "Testing, Diagnosis and Reliability of Electronic Circuits, Digital Computers and Systems", Bulgaria, 1988).
- [26] - - , *PN-Fault Detectability and Circuit Realization Fault Detectability are Equivalent*. Petri Net Newsletter 35, Germany (1990) 37-43.
- [27] - - , *PN-Test Generation by a Linear Algebraic Representation*. Petri Net Newsletter 38, Germany (1991) 22-33.
- [28] - - , *Using D-algebra to generate tests for m-logic combinational circuits*. International Journal of Electronics 75, UK (1993) 897-906 (in: Compendex, Elsevier Engineering Information Inc., Hoboken, NJ USA).
- [29] - - , *Test Generation for Synchronous Realizations of Boolean Interpreted Petri Nets Using Composite Multi-Valued Nets*. Petri Net Newsletter 46, Germany (1994) 15-28 (Accepted for the program of the Sixth Int. Conference on VLSI Design, India 1993). Also in: Bulletin d'informatique approfondie et applications 39, Univ. d'Aix-Marseille II, France (1994) 15-27.
- [30] - - , *A Dynamic Testability Measure for Circuit Realizations of Boolean Interpreted Petri Nets*. Petri Net Newsletter 51, Germany (1996) 32-38.
- [31] - - , *Using rough sets to minimize the number of observation points in logic circuits*. Scientific Papers of the Higher Technical School of Legnica, Informatics No.2, Poland (1999) 91-100.
- [32] - - , *Boolean interpreted Petri nets: controllability/observability independent sets of output variables*. Petri Net Newsletter 57, Germany (1999) 13-22.
- [33] - - , *Using Petri net invariants in system diagnosis*. Petri Net Newsletter 58, Germany (2000) 21-31.
- [34] - - , *System diagnosis using Petri nets*. Systems Science vol.28 no.2, Poland (2002) 95-106. Also in the Fourteenth International Conference on System Science, vol.2, Wrocław (2001), 93-100 (in: Compendex, Elsevier Engineering Information Inc., Hoboken, NJ USA).
- [35] - - , *Using place invariants to isolate faults in concurrent systems*. Systems Science vol.29 no.4, Poland (2003) 99-112. Also in the Fifteenth International Conference on System Science, vol.2, Wrocław (2004) 189-200. See also: Petri Net Newsletter 68, Germany (2005) 10-20.

- [36] - - , *Using Place Invariants and Test Point Placement to Isolate Faults in Discrete Event Systems*. Journal of Universal Computer Science, vol.13, no.2, Springer (2007) 224-243 (cited in Petri Net Newsletter vol.72, April 2007, pp. 42-43; Science Citation Index: Advances in Electrical and Computer Engineering vol. 9, no. 3, 2009, pp.12-17; Journal of Universal Computer Science vol. 15, no. 9, 2009, pp.1871-1885).
- [37] - - , *Diagnosis-time assessment in discrete event systems using timed Petri nets*. Systems Science vol.34 no.3, Poland (2008) 17-23. Also in the Sixteenth International Conference on System Science, vol.1, Wrocław Poland (2007) 247-254.

Conference Publications

- [38] - - , *A Method for Optimization of a Two-Persons Extension Diagnostic Game*. First Polish Conference on "Technical Diagnosis of Digital Devices", Wrocław, Poland (1973): in Scientific Papers of the Institute of Technical Cybernetics of Wrocław University of Technology No.15 Studies No.13 (Reports of the Institute of Technical Cybernetics No.67), Wrocław (1974), in Polish.
- [39] - - , *Fault Diagnosis of Information Nets*. First Polish Conference on "Computer Networks", Polish Academy of Sciences, Gdansk-Wdzydze (1973) 58-60 (Reports of the Institute of Technical Cybernetics No.30), Wrocław (1973), in Polish.
- [40] - - , *Some Problems Concerning Fault Diagnosis of Information Nets*. Second Polish Conference on "Technical Diagnosis of Digital Devices" , Miedzygorze, Poland (1974): in Scientific Papers of the Institute of Technical Cybernetics of Wrocław University of Technology No.22 Conferences No.5, Wrocław (1975) 5-13, in Polish.
- [41] - - , *Optimization Problems for the Mean Cost of a Diagnostic Tree*. Third Polish Conference on "Fault Diagnosis and Reliability of Systems", Miedzygorze, Poland (1975): in Scientific Papers of the Institute of Technical Cybernetics of Wrocław University of Technology No.27 Conferences No.5, Wrocław (1975) 17-35, in Polish.
- [42] - - , *An Analysis of the Problem of Fault Distinguishability in an Information Net*. Third Polish Conference on "Fault Diagnosis and Reliability of Systems", Miedzygorze, Poland (1975): in Scientific Papers of the Institute of Technical Cybernetics of Wrocław Technical University No.27 Conferences No.5,Wrocław (1975) 247-267, in Polish.
- [43] - - , *Using Mathematics in the Process of Education for Informatics*. Polish Conference on Teaching Methods, Szklarska Poreba, Poland (1974), 19pp., in Polish.
- [44] - - , *Some Aspects of the Analysis of Selfdiagnosable Systems*. First International Conference on "Fault Diagnosis of Digital Networks and Fault-Tolerant Computing" ,Katowice, Poland (1976) 37-44
- [45] - - , *Fault Distinguishability in Large Logical Circuits*. Fourth Bulgarian Conference on Computer Technics with International Participation ,Varna, Bulgaria (1976) 75-84, in Bulgarian.
- [46] - - , *Modern Trends in Fault Diagnosis and Reliability of Systems*. First Bulgarian Conference on "Quality, Diagnosis and Reliability of Radioelectronic Devices, Sofia, Bulgaria (1977), in Bulgarian.
- [47] - - , *Fault Distinguishability and Metrical Properties*. Seminar on "Automata, Languages and Systems", Centrum for Applied Mathematics, Institute for Mechanical and Electrical Engineering (TU Sofia),Sofia (1981), in Bulgarian (deposited in Central Science -Techn. Library, Sofia).
- [48] - - , *Testing of Logical Circuits and Petri Nets*. Second Seminar on "Automata, Languages and Systems", Centrum for Applied Mathematics, Institute for Mechanical and Electrical Engineering (TU Sofia),Sofia (1982), in Bulgarian (deposited in Central Science - Techn. Library, Sofia).

- [49] - - , *A Program for Analysis of Petri Nets*. Fourth Bulgarian Conference with International Participation COMPUTER TECHNIC'S83, Plovdiv (1983), 13 pp. (cited in Arbeitspapiere der GMD 212, Germany (1986), p.89).
- [50] - - , *Hardware Implementation of Boolean Interpreted Petri Nets*. Bulgarian Conference on Electronics and Communications, Sofia (1984) 14pp., in Bulgarian (cited in Arbeitspapiere der GMD 212, Germany (1986), p.90).
- [51] - - , *Testing of Digital Systems and Petri Nets*. Bulgarian Conference with International Participation on "Reliability of Digital Computers and Systems", Sofia (1984), 115-121, in Bulgarian (cited in Arbeitspapiere der GMD 212, Germany (1986), p.89).
- [52] - - , *A Simple Method for Circuit Realizations of Boolean Interpreted Petri Nets*. Bulgarian Conference on Electronics and Communications, Sofia (1985) 104-105, in Bulgarian (cited in Arbeitspapiere der GMD 212, Germany (1986), p.90).
- [53] - - , *Petri Nets: Theory and Applications*. Russian Conference with International Participation on Electronics and Communications, Moscow (1987)7pp., in Russian.
- [54] - - , *Test Generation for Digital Systems Modeled by Petri Nets*. The Fourth International Conference RELCOMEX'87, Poland (1987) 115-121.
- [55] - - , *Digital Systems: Fault Diagnosis and Reliability*. Second Bulgarian Conference on "Testing, Diagnosis and Reliability of Electronic Circuits, Digital Computers and Systems", Sofia (1988), 31pp., in Bulgarian.
- [56] - - , *Effective Test Generation Using Non-Effective Fault Simulators*. Third Bulgarian Conference on "Testing, Diagnosis and Reliability of Electronic Circuits, Digital Computers and Systems", Botevgrad (1990) 20pp., in Bulgarian.
- [57] - - , *Test Generation for VLSI/ULSI Circuits: A Survey of the Modern Theoretical Research*. Third Bulgarian Conference on "Testing, Diagnosis and Reliability of Electronic Circuits, Digital Computers and Systems", Botevgrad (1990) 5pp., in Bulgarian.
- [58] - - , *System Diagnosis Using Rough Sets*. National Conference with International Participation AUTOMATICS AND INFORMATICS'95, Sofia (1995), 255-257.
- [59] - - , *Using Rough Sets to Reduce Diagnosis Matrix Preserving System Fault Distinguishability*. The Fourth International Conference on Applications of Computer Systems ACS'97, Szczecin (1997), 415-420.
- [60] - - , *An Introduction to The Place-Transition Nets k -distinguishability*. Sixth International Conference on Soft Computing and Distributed Processing, Rzeszow (2002), 107-110. An extended version: Concurrency, Specification and Programming. Workshop.vol.2, Humboldt-Universität zu Berlin, Germany (2002) 355-369.
- [61] - - , *Using Test Points to Improve the Place -Transition Net k -Distinguishability*. Proc. of the 7th World Multiconference on Systemics, Cybernetics and Informatics SCI 2003, Orlando, Florida USA, July 27-30, vol. IX: Computer Science and Engineering II (2003), 173-178.(in: products of the Institute of Scientific Information , as follows: Index to Scientific & Technical Proceedings, ISTP/ISI Proceedings and Current Content Proceedings - Engineering & Physical Sciences: cited in Petri Net Newsletter vol.66, April 2004,p.69). Also:5th Polish Conference on Knowledge Engineering and Expert Systems, Of. Wyd. TU Wroclaw, vol.2,Wroclaw (2003) 149-159.
- [62] - - , *Fault Diagnosis of Discrete Event Systems Using Place Invariants*. Ninth International Conference on Knowledge-Based Intelligent Information & Engineering Systems KES'2005, Invited Session on Communicative Intelligence, Melbourne, Australia, September 14-16 (2005). In: LNCS, Springer-Verlag, Berlin / Heidelberg vol. 3682, Proceedings, Part II, Khosla R., Howlett R.J. and Jain L.C. Eds.(2005) 541-547 (cited in Petri Net Newsletter vol.70, April 2006, p.58).

- [63] - - , *Fault Distinguishability of Discrete Event Systems*. Int. Conf. on Computational Science, Workshop on Knowledge and Information Management in Computer Communication Systems KIMCCS'06, University of Reading, UK, May 28-31 (2006). In: LNCS, Springer-Verlag, Berlin / Heidelberg vol. 3993, Proceedings, Part III, Alexandrov V.N., G.D. van Albada, P.M.A. Soot and Dongarra J. Eds.(2006) 168-175 (cited in Petri Net Newsletter vol.71, October 2006,p.57 and vol. 72, April 2007,p.36).
- [64] - - , *An introduction to fuzzy propositional calculus using proofs from assumptions*. +10th Int. Conference on Knowledge Based Intelligent Information & Engineering Systems, Bournemouth, UK Main Conference date: 9, 10 & 11 October 2006 Invited Session on Communicative Intelligence 2006. In: LNAI, Springer-Verlag, Berlin / Heidelberg, LNAI vol. 4252, Proceedings, Part II, Gabrys B., Howlett R.J., and Jain L.C. Eds. (2006) 187-194.
- [65] - - , *Using place and transition fault net models for sequential diagnosis time assessment in discrete event systems*. The Twenty First International Conference on Industrial, Engineering & Other Applications of Applied Intelligent Systems. June 18-20, 2008 Wroclaw (Poland). In: LNCS, New Frontiers in Applied Artificial Intelligence, Springer-Verlag, Berlin / Heidelberg vol. 5027, Proceedings, N.T. Nguyen et al. Eds. (2008). 677-686.
- [66] - - , A generalised Łukasiewicz's t-norm system: definition, properties and applications. The Seventeenth International Conference on System Science, Wroclaw (2010). In Advances in Systems Science, Academic Publishing House EXIT, Warsaw (2010) 373-383.

Some of the above given works have been cited and/or used in different conferences or journals, e.g:

The Twenty-Fourth International Symposium on Multiple-Valued Logic, Univ.of Massachusetts at Boston,Boston, Massachusetts (1994), 284-288.

Proc. IEEE/SEIKEN Emerging Technologies for the Next Century Symposium (ETFA-94), Univ. of Tokyo, Tokyo (1994) 414-419.

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* The above-cited works [5,13,15,35,62] are related to the following research projects: Z0802-341541-W0800, Z0802-331526-W0800, Z0802-331557-W0800, and Z0802-331779-W0800 respectively (also: Z0802-341763-W0800, 331885, 331939 / I-31 and 342087 / I-32, realised in TU Wroclaw, Poland).

Recommendation



Institute of Computer Science
Warsaw University of Technology

July 7, 1993

To whom it may concern

At the request of Dr Tabakow, who has asked me to express my opinion on his research and teaching abilities I have the pleasure to state as follows.

I have known Dr. Iwan Georgiew Tabakow since 1972 when I was referring his doctoral dissertation on fault diagnosis in digital systems. Since that time I have been in scientific contact with him, thus I have fairly good opportunity to form my opinion on him.

Dr. Tabakow is interested in digital systems theory in particular, test generation, fault diagnosis and Petri nets. He has published above thirty articles concerning the above said areas of research - many of them have appeared in renowned international journals and conference proceedings.

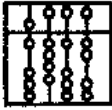
I am of the opinion that Dr. Tabakow is gifted research worker and teacher, being abreast of current research and considerable achievements to his credit. I would like to stress also his mathematical education, which in the mentioned areas are of great advantage.

I consider Dr Tabakow to be a valuable researcher, and teacher endowed with deep knowledge in the said fields. He has also nice personality, which makes co-operation with him very easy.

This is why I do recommend him very strongly for a lecture position at the University of Poitiers, France.

A handwritten signature in black ink, appearing to read 'Z Pawlak'.

Zdzislaw Pawlak
Director
Member of the Polish Academy of Science



**INSTITUT FÜR INFORMATIK
TECHNISCHE UNIVERSITÄT MÜNCHEN**



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To whom it may concern

I follow Dr. Tabakov's scientific career during more than ten years. He was always interested in keeping contact to scientists in western countries. As the editor of the Petri Net Newsletter, an unrefereed information service on Petri Nets, I printed a couple of contributions of Dr. Tabakov.

With sympathy I followed Dr. Tabakov's strong attempts in doing scientific work under miserable circumstances. It was certainly not easy to concentrate on science while access to literature was quite limited for him.

I wish Dr. Tabakov all the best for his future scientific career.

W. Reisig



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February 25, 1995

To Whom It May Concern

Dear Sir:

It is a pleasure to write about the work of Dr. Iwan Georgiev Tabakow. In the field of testing and fault tolerance, he is definitely the most visible researcher from Bulgaria.

His early work on the theory of diagnosable systems discusses fault distinguishability in nets. This work has gained significance because of the present-day popularity of computer networks.

More recently, Dr. Tabakow invented a method of generating tests for sequential circuits using Petri nets. He has used Petri nets to solve several related problems of testing and verification of digital systems. He has published many papers on this work. More importantly, his ideas have inspired other researchers.

Dr. Tabakow has devoted many years to the profession of teaching. His interests have been in discrete structures, fault tolerance, digital systems and Petri nets. He has developed and taught mathematical methods that are very important in modern computer science.

I hope that he will be able to secure a position of a full professor that will allow him to pursue his interests in teaching and research. He richly deserves such a position and I have no hesitation in recommending him for one.

Sincerely,

A handwritten signature in cursive script that reads "Vishwani D. Agrawal".

Dr. Vishwani D. Agrawal
Distinguished Member of Technical Staff
Visiting Professor, Rutgers University
Editor-in-Chief, Journal of Electronic Testing