

A new approach to build a low-level malicious fault list starting from high-level description and alternative graphs

Benso, A.; Prinetto, Paolo; Rebaudengo, M.; Sonza, M.; **Ubar, Raimund-Johannes** Proceedings IEEE European Design & Test Conference, Paris, March 17-20, 1997 1997 / p. 560-565 <https://ieeexplore.ieee.org/document/582417>

Adjusted electrical equivalent circuit model of induction motor with broken rotor bars

Rassõlkin, Anton; Vaimann, Toomas; Belahcen, Anouar; Kallaste, Ants; Petrov, Aleksei; Plokhov, Igor; Kotelnikov, Aleksandr PQ2016 : the 10th International Conference 2016 Electric Power Quality and Supply Reliability Conference (PQ) : August 29-31, 2016, Tallinn, Estonia : proceedings 2016 / p. 213-218 : ill <https://doi.org/10.1109/PQ.2016.7724115>

Adjusted electrical equivalent circuit model of induction motor with broken rotor bars and eccentricity faults

Petrov, Aleksei; Plokhov, Igor; **Rassõlkin, Anton; Vaimann, Toomas; Kallaste, Ants; Belahcen, Anouar** Proceeding of the 2017 IEEE 11th International Symposium on Diagnostics for Electric Machines, Power Electronics and Drives (SDMPED) : [Tinos (Greece), August 29 - September 01, 2017] 2017 / p. 58-64 : ill <https://doi.org/10.1109/SDMPED.2017.8062334>

Advances in machine fault diagnosis

Vaimann, Toomas Applied sciences 2021 / art. 7348, 5 p <https://doi.org/10.3390/app11167348> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Advances in machine fault diagnosis

2022 <https://doi.org/10.3390/books978-3-0365-5110-4>

Advances in machine fault diagnosis

Vaimann, Toomas Advances in machine fault diagnosis 2022 / p. 1-5 <https://doi.org/10.3390/app11167348>

AI piilub kapoti alla

Vaaks, Eveliis Trialoog 2025 <https://trialoog.taltech.ee/ai-piilub-kapoti-alla/>

Akustiliste lainete mõõtmise aitab määrata materjali omadusi : [Euroopa Teadusfondi programmist, 2001-2004 osales selles TTÜ Küberneetika Instituudi Mittelineaarsete protsesside analüüsi keskuse tööruhm]

Ravasio, Arvi Eesti Teadusfondi Aastaraamat 2004 2005 / lk. 24 : ill

Alternative graphs as a mathematical tool and knowledge representation for diagnosis purposes in digital systems

Ubar, Raimund-Johannes BEC : Baltic Electronics Conference : proceedings of the 4th Biennial Conference, October 9-14, 1994, Tallinn (Estonia). 1 1994 / p. 285-292: ill

Analyse of control and diagnostics problems of trams and development of new systems and methods

Rosin, Argo 2nd International Symposium "Topical Problems of Education in the Field of Electrical and Power Engineering" : Kuressaare, Estonia, January 17-22, 2005 2005 / p. 86-92 : ill

Analysis of broken rotor bar diagnostic techniques for inverter fed induction motor faults

Sardar, Muhammad Usman 22nd International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral School of Energy and Geotechnology III : Pärnu, Estonia, August 23-26, 2023 2023 / p. 39-40 : ill https://www.ester.ee/record=b5570906*est

Analysis of possible faults and diagnostic methods of the Cartesian industrial robot

Autsou, Siarhei; Rassõlkin, Anton; Vaimann, Toomas; Kudelina, Karolina Proceedings of the Estonian Academy of Sciences 2022 / p. 227-24 : ill <https://doi.org/10.3176/proc.2022.3.04> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Artificial intelligence driven approaches for fault prognostics of electrical machines using vibration spectrum analysis = Tehisintellektil põhinevad lähenemisviisid elektrimasinate rikete prognoosimiseks vibratsioonispektri analüüsi abil

Kudelina, Karolina 2024 https://www.ester.ee/record=b5685285*est <https://doi.org/10.23658/taltech.28/2024> <https://digikogu.taltech.ee/et/Item/229f1bbb-6178-414a-9e2e-2c98a30a783c>

Artificial intelligence in monitoring and diagnostics of electrical energy conversion systems

Vaimann, Toomas; Rassõlkin, Anton; Kallaste, Ants; Pomarnacki, Raimondas; **Belahcen, Anouar**; Van Khang, Hyunh 2020 27th International Workshop on Electric Drives: MPEI Department of Electric Drives 90th Anniversary (IWED), Moscow, Russia, January 27-30, 2020 2020 / 4 p <https://doi.org/10.1109/IWED48848.2020.9069566>

Arvuti mitmetasemeline mudel diagnostikaülesande lahendamiseks

Liik, T.; Viilup, Agu XXIX vabariiklik üliõpilaste teaduslik- tehniline konverents 30. märtsist - 1. aprillini 1977 : ettekannete teesid 1977 / lk. 44 https://www.ester.ee/record=b2449987*est

Arvutisüsteemide katsetamise ja diagnostika teerajaja Raimund Ubar

Sirp 2016 / lk. 11 : portr <https://www.sirp.ee/s1-artiklid/c21-teadus/arvutisusteemide-katsetamise-ja-diagnostika-teerajaja-raimund-ubar/> https://artiklid.elnet.ee/record=b2758005*est

Arvutite diagnostika uurimissuuna kujunemisest Eestis

Ubar, Raimund-Johannes Kõrgema tehnilise hariduse ja tehnilise mõtte areng Eestis 1988 / lk. 110-127

Assessment of metal condition and remaining life of in-service power plant components operating at high temperature = Elektri jaamade kõrgetemperatuursete seadmete metalli seisundi ja jääkressursi hindamine

Dedov, Andrei 2007 <https://digi.lib.ttu.ee/i/?159> https://www.ester.ee/record=b2324690*est

At-speed on-chip diagnosis of board-level interconnect faults

Jutman, Artur Ninth IEEE European Test Symposium : ETS 2004 : 23-26 May 2004, Corsica, France : proceedings 2004 / p. 2-7 : ill https://www.researchgate.net/publication/4098807_At-speed_on-chip_diagnosis_of_board-level_interconnect_faults

Autode ja traktorite tehniline teenindamine ja diagnostika

Nirk, Tavi Põllumajanduse Mehhaniseerimine ja Elektrifitseerimine : Informatsiooniseeria 9 1974 / lk. 1-12 https://www.ester.ee/record=b1274152*est

Autode süütesüsteemi diagnostikast

Sillat, Rein Autotransport ja Maanteed : informatsiooniseeria 8 1972 / lk. 1-5 ; ill. https://www.ester.ee/record=b1181335*est

Automated design and diagnosis of electronic system based on description language representation

Wawryn, Krzysztof; Drabarek, Jozef BEC : Baltic Electronics Conference : proceedings of the 4th Biennial Conference, October 9-14, 1994, Tallinn (Estonia). 2 1994 / p. 443-448 https://www.ester.ee/record=b2150914*est

Automated minimization of concurrent online checkers for network-on-chips

Saltarelli, Pietro; Niazmand, Behrad; Hariharan, Ranganathan; Raik, Jaan; Jervan, Gert; Hollstein, Thomas 10th International Symposium on Reconfigurable and Communication-centric Systems-on-Chip (ReCoSoC 2015) : Bremen, 29 June - 1 July 2015 2015 / [8] p. : ill <http://dx.doi.org/10.1109/ReCoSoC.2015.7238079>

Automatic diagnosis of simple design errors

Ubar, Raimund-Johannes; Borrione, Dominique TIMA annual report 1998 1999 / p. 97-98

Automatic diagnosis of simple design errors

Ubar, Raimund-Johannes; Borrione, Dominique Techniques of Informatics and Microelectronics for Computer Architecture 1999 / p. 91

BASTION - board and SoC test instrumentation for Ageing and No Failure Found

Devadze, Sergei MEDIAN Finale : Workshop on Manufacturable and Dependable Multicore Architectures at Nanoscale : November 10-11, 2015, Tallinn, Estonia 2015 / p. 77

BASTION : board and SoC test instrumentation for ageing and no failure found

Jutman, Artur; Lotz, Christophe; Larsson, Erik; Sonza Reorda, Matteo; Jenihhin, Maksim; Raik, Jaan Proceedings of the 2017 Design, Automation & Test in Europe (DATE) : 27-31 March 2017, Swisstech, Lausanne, Switzerland 2017 / p. 115-120 : ill <https://doi.org/10.23919/DATE.2017.7926968>

Bearing fault analysis of BLDC motor for electric scooter application

Kudelina, Karolina; Asad, Bilal; Vaimann, Toomas; Belahcen, Anouar; Rassõlkin, Anton; Kallaste, Ants; Lukichev, Dmitry Designs 2020 / art. 42, 18 p. : ill <https://doi.org/10.3390/designs4040042> [Journal metrics at Scopus](https://www.scopus.com/journal/view/doi?doi=10.1108/JMET-01-2020-0004) [Article at Scopus](https://www.scopus.com/article/view/doi?doi=10.1108/JMET-01-2020-0004)

Berechnung von Booleschen Ableitungen bei der Testsatzanalyse für digitale Schaltungen

Ubar, Raimund-Johannes Nachrichtentechnik, Elektronik : technisch-wissenschaftliche Zeitschrift für die gesamte elektronische Nachrichtentechnik 1977 / p. 21-23 : ill https://www.ester.ee/record=b1550811*est

Berechnung von tests für die Fehlerdiagnose in Digitalsystem

Ubar, Raimund-Johannes Internationales wissenschaftliches Kolloquium, 21. 1. November bis 5. November 1976, H. 2: Vortragsreihe A 2: Entwurf, Analyse und Einsatz von informationsverarbeitenden Systemen: IWK 1976 / p. [?]

Beschreibung digitaler Einrichtungen mit alternativen Graphen für die Fehlerdiagnose

Ubar, Raimund-Johannes Nachrichtentechnik, Elektronik : technisch-wissenschaftliche Zeitschrift für die gesamte elektronische Nachrichtentechnik 1980 / p. 96-102 : ill https://www.ester.ee/record=b1550811*est

Block-level fault model-free debug and diagnosis in digital systems

Ubar, Raimund-Johannes; Kostin, Sergei; Raik, Jaan Proceedings of the 12th EUROMICRO Conference on Digital System Design, Architectures, Methods and Tools : Patras, Greece, August 27-29, 2009 2009 / p. 229-232 <https://ieeexplore.ieee.org/document/5350128>

Boolean fault diagnosis with structurally synthesized BDDs

Ubar, Raimund-Johannes Recent progress in the Boolean domain 2014 / p. 303-331 : ill

Built-in self diagnosis with multiple signature analyzers in digital systems

Ubar, Raimund-Johannes; Kostin, Sergei; Raik, Jaan Proceedings of the 9th IEEE Latin-American Test Workshop : LATW2008 : February 17-20, 2008, Puebla, Mexico 2008 / p. 29-34 : ill

Cable diagnostics methods for determining degradation caused by renewable energy production

Kiitam, Ivar; Taklaja, Paul; Niitsoo, Jaan; Hyvonen, Petri 2015 IEEE 5th International Conference on Power Engineering, Energy and Electrical Drives (POWERENG) : proceedings : May 11-13, 2015, Riga, Latvia 2015 / p. 220-224 : ill

CAD software for digital test and diagnostics

Jervan, Gert; Markus, Antti; Paomets, Priidu; Raik, Jaan; Ubar, Raimund-Johannes Proceedings of International Conference on Design and Diagnostics of Electronic Circuits and Systems, Ostrava, Czech Republik, May 12-14, 1997 1997 / p. 35-40

Calculation of probabilistic testability measures for digital circuits with Structurally Synthesized BDDs

Jürimägi, Lembit; Ubar, Raimund-Johannes; Jenihhin, Maksim; Raik, Jaan Microprocessors and microsystems 2020 / art. 103117, 12 p <https://doi.org/10.1016/j.micpro.2020.103117> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Calculation of the diagnosability of digital circuits without using fault models

Ubar, Raimund-Johannes; Kostin, Sergei; Raik, Jaan BEC 2008 : 2008 International Biennial Baltic Electronics Conference : proceedings of the 11th Biennial Baltic Electronics Conference : Tallinn University of Technology : October 6-8, 2008, Tallinn, Estonia 2008 / p. 159-162 : ill

Camera gimbal performance improvement with spinning-mass mechanical gyroscopes

Tiimus, Kristjan; Tamre, Mart Proceedings of the 8th International Conference of DAAAM Baltic Industrial Engineering, 19-21st April 2012, Tallinn, Estonia. 1 2012 / p. 361-366 : ill

Capacitor coupled voltage transformer inaccuracy effect on circuit breaker operation

Asefi, Sajjad; Andreesen, Guido; Kilter, Jako; Landsberg, Mart 2023 23rd International Scientific Conference on Electric Power Engineering (EPE) 2023 / 5 p <https://doi.org/10.1109/EPE58302.2023.10149279>

Combinational fault simulation in sequential circuits

Ubar, Raimund-Johannes; Kõusaar, Jaak; Gorev, Maksim; Devadze, Sergei 2015 IEEE International Symposium on Circuits and Systems : 24-27 May 2015, Lisboa, Portugal : [proceedings] 2015 / p. 2876-2879 : ill <https://doi.org/10.1109/ISCAS.2015.7169287> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Combined fault-model free cause-effect and effect-cause fault diagnosis in block-level digital networks

Ubar, Raimund-Johannes; Kostin, Sergei; Raik, Jaan ASQED'09 : 1st Asia Symposium on Quality Electronic Design : Kuala Lumpur, Malaysia, July 15-16, 2009 2009 / p. 385-390 <https://ieeexplore.ieee.org/document/5206232>

Common rail diesel feed system diagnosing technology

Ives, R.; Mikita, V.; Traat, Ü.; Gregor, Andre Agronomy research 2010 / S1, p. 74-78 : ill

Compact multichannel device for differential impedance spectroscopy of microfluidic sensors [Online resource]

Ojarand, Jaan; Ehrminger, Robin Benjamin; Min, Mart; Koel, Ants BEC 2018 : 2018 16th Biennial Baltic Electronics Conference (BEC) : proceedings of the 16th Biennial Baltic Electronics Conference, October 8-10, 2018 2018 / 4 p.: ill <http://doi.org/10.1109/BEC.2018.8600955>

Complex delay fault reasoning with sequential 7-valued algebra

Kõusaar, Jaak; Ubar, Raimund-Johannes; Aleksejev, Igor 2015 16th Latin American Test Symposium (LATS 2015) : Puerto Vallarta, Mexico, 25-27 March 2015 2015 / [6] p. : ill <http://dx.doi.org/10.1109/LATW.2015.7102403>

Composing graph theory and deep neural networks to evaluate SEU type soft error effects

Balakrishnan, Aneesh; Lange, Thomas; Glorieux, Maximilien; Alexandrescu, Dan; Jenihhin, Maksim 9th Mediterranean Conference on Embedded Computing (MECO'2020), Budva, Montenegro, 8-11 June 2020 2020 <https://doi.org/10.1109/MECO49872.2020.9134279>

Condition monitoring and diagnostic of electrical machines using IoT and machine learning

Raja, Hadi Ashraf 21st International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Pärnu, Estonia, June 15-18, 2022 2022 / p. 31-32 : ill https://www.ester.ee/record=b5504019*est

Condition monitoring of a Cartesian robot with a mechanically damaged gear to create a fuzzy logic control and diagnosis algorithm

Autsou, Siarhei; Kudelina, Karolina; Vaimann, Toomas; Rassõlkin, Anton; Kallaste, Ants Applied sciences 2024 / art. 4241 <https://doi.org/10.3390/app14104241> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Condition monitoring of electrical machines

Vaimann, Toomas; Kallaste, Ants 11th International Symposium "Topical Problems in the Field of Electrical and Power Engineering." Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 16-21, 2012 / p. 209-212 : ill

Conditional fault collapsing in digital circuits with shared structurally synthesized BDDs [Online resource]

Jürimägi, Lembit; Ubar, Raimund-Johannes BEC 2018 : 2018 16th Biennial Baltic Electronics Conference (BEC) : proceedings of the 16th Biennial Baltic Electronics Conference, October 8-10, 2018 / 4 p. : ill <https://doi.org/10.1109/BEC.2018.8600967>

Control and operation diagnostics of light rail electric transport : research and development

Rosin, Argo 2011 <https://www.amazon.com/Control-Operation-Diagnostics-Electric-Transport/dp/3844333673>

Control, supervision and operation diagnostics of light rail electric transport

Rosin, Argo; Lehtla, Tõnu 2005 https://www.ester.ee/record=b2073559*est

Critical path tracing based simulation of transition delay faults

Kõusaar, Jaak; Ubar, Raimund-Johannes; Devadze, Sergei; Raik, Jaan Proceedings of the 8th Annual Conference of the Estonian National Doctoral School in Information and Communication Technologies : December 5-6, 2014, Rakvere 2014 / p. 61-66 : ill

Critical path tracing based simulation of transition delay faults

Kõusaar, Jaak; Ubar, Raimund-Johannes; Devadze, Sergei; Raik, Jaan 2014 17th Euromicro Conference on Digital System Design : DSD 2014 : 27-29 August 2014, Verona, Italy : proceedings 2014 / p. 108-113 : ill

Data-driven cross-layer fault management architecture for sensor networks

Vihman, Lauri; Kruusmaa, Maarja; Raik, Jaan 16th European Dependable Computing Conference : EDCC 2020 : Virtual Conference, Munich, Germany, 7-10 September 2020 : proceedings 2020 / art. 20094188, p. 33-40
<https://doi.org/10.1109/EDCC51268.2020.00015>

Decision diagrams for diagnostic modeling

Ubar, Raimund-Johannes MEDIAN Finale : Workshop on Manufacturable and Dependable Multicore Architectures at Nanoscale : November 10-11, 2015, Tallinn, Estonia 2015 / p. 43

Defect-oriented BIST quality analysis

Kruus, Helena; Ubar, Raimund-Johannes; Raik, Jaan BEC 2010 : 2010 12th Biennial Baltic Electronics Conference : proceedings of the 12th Biennial Baltic Electronics Conference : Tallinn University of Technology, October 4-6, 2010, Tallinn, Estonia 2010 / p. 153-156 : ill

Defect-oriented modul-level fault diagnosis in digital circuits

Kostin, Sergei; Ubar, Raimund-Johannes; Raik, Jaan Proceedings of the 2011 IEEE Symposium on Design and Diagnostics of Electronic Circuits and Systems : April 13-15, 2011, Gottbus, Germany 2011 / p. 81-86

DefSim - the defective IC

Pleskacz, Witold A.; Jutman, Artur; Ubar, Raimund-Johannes; Devadze, Sergei DATE 2007 : Design Automation and Test in Europe : Nice, France, April 16-20, 2007 / p. s96 (2 p.)

Design error diagnosis in digital circuits with stuck-at fault model

Jutman, Artur; Ubar, Raimund-Johannes Microelectronics reliability 2000 / p. 307-320 : ill [https://doi.org/10.1016/S0026-2714\(99\)00203-6](https://doi.org/10.1016/S0026-2714(99)00203-6)

Design error diagnosis in digital circuits without error model

Ubar, Raimund-Johannes; Borrione, Dominique VLSI : systems on a chip : IFIP TC10 WG10.5 Tenth International Conference on Very Large Scale Integration (VLSI'99) : December 1-4, 1999, Lisboa, Portugal 1999 / p. 281-292 : ill
https://www.researchgate.net/publication/292157544_Design_Error_Diagnosis_in_Digital_Circuits_without_Error_Model

Design error diagnosis in scan-path designs

Ubar, Raimund-Johannes 2nd IEEE Latin American Test Workshop : LATW 2001 : Cancun, Mexico, February 11-14, 2001 : digest of papers 2001 / p. 162-168 : ill

Design error diagnosis using backtrace algorithm on decision diagrams

Repinski, Urmas; Raik, Jaan; Ubar, Raimund-Johannes; Jenihhin, Maksim; Tšepurov, Anton Info- ja kommunikatsioonitehnoloogia doktorikooli IKTDK neljanda aastakonverentsi artiklite kogumik : 26.-27. novembril 2010, Essu mõis 2010 / p. 93-96

Design error diagnosis with re-synthesis in combinational circuits

Ubar, Raimund-Johannes Journal of electronic testing : theory and applications 2003 / 1, p. 73-82 : ill

<https://link.springer.com/article/10.1023/A:1021948013402>

Design of devices for advanced protection, voltage-quality and load priority control in residential microgrids

Lehtla, Madis; Rosin, Argo; Möller, Taavi; Pikner, Rando EPE-PEMC 2010 : 14th International Power Electronics and Motion Control Conference : 6-8 September 2010, Ohrid, Republic of Macedonia 2010 / p. T6-97 - T6-100
<https://ieeexplore.ieee.org/document/5606611> <https://doi.org/10.1109/EPEPEMC.2010.5606611>

Design-for-destability-based external test and diagnosis of mesh-like network- on-a-chips

Raik, Jaan; Govind, Vineeth; Ubar, Raimund-Johannes IET computers and digital techniques 2009 / 5, p. 476-486 : ill
<http://dx.doi.org/10.1049/iet-cdt.2008.0096>

Detection of broken bars in frequency converter fed induction motor using Park's vector approach

Vaimann, Toomas; Belahcen, Anouar; Martinez, Javier; Kilk, Aleksander PQ2012 : 8th International Conference : 2012 Electric Power Quality and Supply Reliability : June 11-13, 2012, Tartu, Estonia : conference proceedings 2012 / p. 53-56 : ill
https://www.researchgate.net/publication/261051228_Detection_of_broken_bars_in_frequency_converter_fed_induction_motor_using_Park's_vector_approach

Detection of broken rotor bars in three-phase squirrel-cage induction motor using fast Fourier transform

Vaimann, Toomas; Kallaste, Ants 10th International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 10-15, 2011 2011 / p. 52-56 : ill

Detection of induction motor broken bars in grid and frequency converter supply

Vaimann, Toomas; Belahcen, Anouar; Martinez, Javier; Kilk, Aleksander Riga Technical University 53rd International Scientific Conference dedicated to the 150th anniversary and the 1st Congress of World Engineers and Riga Polytechnical Institute/RTU Alumni : 11-12 October 2012, Riga, Latvia : [abstracts] 2012 / p. 112 : ill
https://www.researchgate.net/publication/262674778_Detection_of_induction_motor_broken_bars_in_grid_and_frequency_converter_supply

Development of automated detection and wireless reporting for a handheld point-of-care test

Pardy, Tamas; Filograno, Leonardo; Baumann, Cindy; Rang, Toomas 2020 17th Biennial Baltic electronics conference, Tallinn, Estonia, October 6-8, 2020 : proceedings 2021 / 4 p. : ill <https://doi.org/10.1109/BEC49624.2020.9276773>

Development of control and diagnostics system for Tallinn trams

Rosin, Argo; Pettai, Elmo; Lehtla, Tõnu BEC 2004 : proceedings of the 9th Biennial Baltic Electronics Conference : October 3-6, 2004, Tallinn, Estonia 2004 / p. 327-330 : ill

DFT-based external test and diagnosis of mesh-like networks on chips = Testitavusel põhinev välise testi ja diagnoosi meetod kahemõõtmelistele kiipvõrkudele

Govind, Vineeth 2009 <https://digi.lib.ttu.ee/ii/?454> https://www.ester.ee/record=b2539211*est

Diagnostic modeling of digital systems with multi-level decision diagrams

Ubar, Raimund-Johannes; Raik, Jaan; Jutman, Artur; Jenihhin, Maksim Design and test technology for dependable systems-on-chip 2011 / p. 92-118 : ill https://www.researchgate.net/publication/344994231_Diagnostic_Modeling_of_Digital_Systems_with_Multi-Level_Decision_Diagrams

Diagnostic modeling of microprocessors with high-level decision diagrams

Ubar, Raimund-Johannes; Raik, Jaan; Jutman, Artur; Jenihhin, Maksim; Brik, Marina; Istenberg, Martin; Wuttke, Heinz-Dietrich BEC 2008 : 2008 International Biennial Baltic Electronics Conference : proceedings of the 11th Biennial Baltic Electronics Conference : Tallinn University of Technology : October 6-8, 2008, Tallinn, Estonia 2008 / p. 147-150 : ill

Diagnostic modelling of digital systems with binary and high-level decision diagrams

Ubar, Raimund-Johannes; Raik, Jaan; Kruus, Helena; Lensen, Harri; Evertson, Teet Progress in industrial mathematics at ECMI 2006 2008 / p. 902-907 : ill https://link.springer.com/chapter/10.1007/978-3-540-71992-2_158

Diagnostic modelling of digital systems with decision diagrams

Ubar, Raimund-Johannes Вестник Томского государственного университета : приложение 2004 / август, материалы международных, всесоюзных и региональных научных конференций, симпозиумов, школ, проводимых в ТГУ, с. 174-179 : ил

Diagnostic modelling of digital systems with multi-level decision diagrams

Ubar, Raimund-Johannes; Raik, Jaan; Evertson, Teet; Kruus, Margus; Lensen, Harri Proceedings of the 17th IASTED International Conference on Modelling and Simulation : May 24-26, 2006, Montreal, Quebec, Canada 2006 / p. 207-212 : ill

Diagnostic software

Ubar, Raimund-Johannes Concise encyclopedia of software engineering 1993 / p. 101-105

Diagnostic software with WEB interface for teaching purposes

Vislogubov, Vladislav; Jutman, Artur; Kruus, Helena; Orasson, Elmet; Raik, Jaan; Ubar, Raimund-Johannes BEC 2004 : proceedings of the 9th Biennial Baltic Electronics Conference : October 3-6, 2004, Tallinn, Estonia 2004 / p. 255-258 : ill

Diagnostics analysis of partial discharge events of the power cables at various voltage levels using ramping behavior analysis method

Mishra, Sambeet; **Singh, Praveen Prakash; Kiitam, Ivar; Shafiq, Muhammad; Palu, Ivo**; Bordin, Chiara Electric power systems research 2024 / art. 109988 <https://doi.org/10.1016/j.epr.2023.109988> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Diagnostics of induction machine rotor faults using analysis of stator signals = Asünkroonmasina rootori diagnostika staatorisignaali uurimise meetodil

Vaimann, Toomas 2014 https://www.ester.ee/record=b4376858*est

Diagnostics of induction motor rotor faults using analysis of stator current

Vaimann, Toomas 6th International Symposium "Topical Problems in the Field of Electrical and Power Engineering" : Doctoral School of Energy and Geotechnology : [Kuressaare, January 12-17, 2009] 2009 / p. 13-17 : ill

Diagnostics of machining and assembly systems by networked nodes

Preden, Jürjo-Sören; Sarkans, Martinš; Otto, Tauno Machine engineering 2007 / 1/2, p. 68-77

Diagnostics system for electronic circuits

Melentjev, Sergei 11th International Symposium "Topical Problems in the Field of Electrical and Power Engineering." Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 16-21, 2012 2012 / p. 192-194 : ill

Diagnostika säästab elektrimasinate tervist

Vaimann, Toomas; Kilik, Aleksander Keskkonnatehnika 2011 / 5, lk. 31-32 : ill https://artiklid.elnet.ee/record=b2426053*est

DIAGNOZER : a laboratory tool for teaching research in diagnosis of electronic systems [Electronic resource]

Ubar, Raimund-Johannes; Kostin, Sergei; Jutman, Artur; Raik, Jaan; Wuttke, Heinz-Dietrich 2009 IEEE International Conference on Microelectronic Systems Education MSE '09 : 25-27 July 2009, San Francisco, California : [proceedings] 2009 / p. 12-15 : ill. [CD-ROM] <http://dx.doi.org/10.1109/MSE.2009.5270842>

Digitaali disain - ideest realiseerimiseni

Ellervee, Peeter A & A 2008 / lk. 6-10 : ill https://artiklid.elnet.ee/record=b1021438*est

Digitaalkaksikud diagnostika rakenduseks

Vaimann, Toomas Elektriala 2023 / lk. 24-25 https://www.ester.ee/record=b1240496*est

Digitaalsüsteemide diagnostika

Ubar, Raimund-Johannes 2005 http://www.ester.ee/record=b2097071*est

Digital twin of wind generator for modelling various turbine characteristics

Raja, Hadi Ashraf; Autosou, Siarhei; Kudelina, Karolina; Rjabtšikov, Viktor; Vaimann, Toomas; Kallaste, Ants; Pomarnacki, Raimondas; Hyunh, Van Khang 2023 International Conference on Electrical Drives and Power Electronics (EDPE) 2023 / p. 1-5 <https://doi.org/10.1109/EDPE58625.2023.10274050>

Digital twin of wind generator to simulate different turbine characteristics using IoT

Raja, Hadi Ashraf; Kudelina, Karolina; Rjabtšikov, Viktor; Vaimann, Toomas; Kallaste, Ants; Pomarnacki, Raimondas; Hyunh, Van Khang Proceedings of the Future Technologies Conference (FTC) 2023. Vol. 1 2023 / p. 123-132 https://doi.org/10.1007/978-3-031-47454-5_9 [Conference proceedings at Scopus](#) [Article at Scopus](#)

Distributed approach for parallel exact critical path tracing fault simulation

Ivask, Eero; Devadze, Sergei; Ubar, Raimund-Johannes International journal of microelectronics and computer science 2010 / p. 165-174 : ill

Distributed approach for parallel exact critical path tracing fault simulation

Ivask, Eero; Devadze, Sergei; Ubar, Raimund-Johannes MIXDES 2010 : 17th International Conference "Mixed Design of Integrated Circuits and Systems" : June 24-26, 2010, Wroclaw, Poland 2010 / p. 471-476 : ill

Doktoritöö trammi arvutipõhise juhtimise, seire ja diagnostika alal : [väitekirja kaitses Argo Rosin]

Lahtmets, Rain Elektriala 2005 / lk. 32

Doktoriväitekirja termograafilise diagnostika rakendustest ja uuringutest : [TTÜ elektroenergeetika instituudis kaitses doktoritöö Nikolai Dorovatovski]

Treufeldt, Ülo Elektriala 2004 / lk. 31 : fot

Double phase fault collapsing with linear complexity in digital circuits

Ubar, Raimund-Johannes; Jürimägi, Lembit; Orasson, Elmet; Josifovska, Galina; Oyeniran, Adeboye Stephen DSD 2015 : 18th Euromicro Conference on Digital Systems Design : 26-28 August 2015, Funchal, Madeira, Portugal 2015 / p. 700-705 : ill

Effect of ultrasonic treatment on the defect structure of the Si-SiO₂ system

Kropman, Daniel; Seeman, Viktor; Dolgov, Sergei; Medvids, Arturs *Physica Status Solidi (C) Current Topics in Solid State Physics* 2016 / p. 793 - 797 <https://doi.org/10.1002/pssc.201600052> [Journal metrics at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Efficiency of diagnosing the condition of rolling bearings in real time

Baraškova, Tatjana; Shirokova, Veronika *Ukrainian metrological journal* 2022 / p. 34-38 : ill <https://doi.org/10.24027/2306-7039.4.2022.276322>

Efficient at-speed interconnect BIST and diagnosis framework

Jutman, Artur *Informal Digest of Papers : 10 IEEE European Test Symposium : Tallinn, Estonia, May 22-25, 2005* 2005 / p. 257-258 : ill https://artiklid.elnet.ee/record=b1018804*est

Efficient TPG for a fast at-speed interconnect BIST [Electronic resource]

Jutman, Artur 7th IEEE Workshop on Design and Diagnostics of Electronic Circuits and Systems : April 18-21, 2004, Stará Lesná, Slovakia : proceedings 2004 / p. 223-226 : ill. [CD-ROM]

Ein universeller Weg zur Automatisierung des Testentwurfs für digitale Objecte

Ubar, Raimund-Johannes; Lohuaru, Tõnu *Fehler in Automaten* 1989 / S. 16-30 : ill

Elektrimasinate diagnostika - lihtne viis suureks kokkuhoiuks

Vaimann, Toomas; Kilk, Aleksander *Elektriline* 2011 / 5, lk. 26-27 : ill

Elektrimasinate diagnostika kui moodus nende eluea pikendamiseks

Vaimann, Toomas; Kilk, Aleksander *Inseneria* 2011 / lk. 38, 40 : ill https://www.ester.ee/record=b1519314*est

Elektrimasinate terviserikkeid aitaks ennetada tehisintellekt [Võrguväljaanne]

Kudelina, Karolina *novaator.err.ee* 2021 ["Elektrimasinate terviserikkeid aitaks ennetada tehisintellekt"](#)

Embedded diagnosis in digital systems

Ubar, Raimund-Johannes; Kostin, Sergei; Raik, Jaan 26th International Conference on Microelectronics : Niš, Serbia, 11-14 May 2008 : proceedings. Vol. 2 2008 / p. 421-424 : ill

Embedded diagnosis in digital systems

Kostin, Sergei Info- ja kommunikatsioonitehnoloogia doktorikooli IKTDK kolmanda aastakonverentsi artiklite kogumik : 25.-26. aprill 2008, Voore külalistemaja 2008 / p. 81-84 : ill

Embedded fault diagnosis in digital systems with BIST

Ubar, Raimund-Johannes; Kostin, Sergei; Raik, Jaan *Microprocessors and microsystems* 2008 / 5/6, p. 279-287 : ill

Embedded instrumentation toolbox for screening marginal defects and outliers for production

Odintsov, Sergei; Jutman, Artur; Devadze, Sergei; **Aleksejev, Igor** IEEE AUTOTESTCON 2017 : Schaumburg, USA, Sept 11-14, 2017 : proceedings 2017 / p. 336-334 : ill <https://doi.org/10.1109/AUTEST.2017.8080516>

Encoderless rotor position estimation of a switched reluctance drive operated under model predictive control

Anuchin, Aleksey; Shpak, Dmitry; **Demidova, Galina** 2020 IEEE 61st International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), Riga, Latvia, Nov. 5-7, 2020 : conference proceedings 2020 <https://doi.org/10.1109/RTUCON51174.2020.9316621>

Environment for the analysis of functional self-test quality in digital systems

Ubar, Raimund-Johannes; Kostin, Sergei; Kruus, Helena; Aarna, Margit; Devadze, Sergei *Proceedings of the Estonian Academy of Sciences* 2014 / p. 151-162 : ill https://artiklid.elnet.ee/record=b2673964*est <https://doi.org/10.3176/proc.2014.2.05> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Estimating time constants for underfloor heating control

Kull, Tuule Mall; Thalfeldt, Martin; Kurnitski, Jarek *Journal of physics : conference series* 2019 / art. 012121, 6 p. : ill <https://doi.org/10.1088/1742-6596/1343/1/012121> [Conference proceeding at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Estimation of complex derivatives and application for fault diagnosis

Baraškova, Tatjana; Arjassov, Gennadi; Gornostajev, Dmitri *Annals of DAAAM for 2012 & Proceedings of the 23rd International DAAAM Symposium : Intelligent Manufacturing & Automation 2012* / p. 0469-0472 : ill. [CD-ROM] https://www.daaam.info/Downloads/Pdfs/proceedings/proceedings_2012/109.pdf

Estimation of complex derivatives application for fault diagnosis

Baraškova, Tatjana; Pascault, D. 17th International conference on "Mathematical Modelling and Analysis" : June 6-9, 2012, Tallinn, Estonia : abstracts 2012 / p. 19

Exact parallel critical path fault tracing to speed-up fault simulation in sequential circuits

Kõusaar, Jaak; Ubar, Raimund-Johannes; Kostin, Sergei; Devadze, Sergei; Raik, Jaan International journal of microelectronics and computer science 2018 / p. 9–18 <https://ijmcs.dmcps.pl/web/guest/vol.-9-no.-1>
https://ijmcs.dmcps.pl/documents/10630/345460/IJMCS_1_2018_2.pdf

Extended checkers for control part of routers in network-on-chips

Hariharan, Ranganathan; Niazmand, Behrad; Hollstein, Thomas; Raik, Jaan; Jervan, Gert MEDIAN 2015 : the 4th Workshop on Manufacturable and Dependable Multicore Architectures at Nanoscale : March 13, 2015, Grenoble, France 2015 / p. 36-39 : ill

Extended checkers for logic-based distributed routing in network-on-chips

Niazmand, Behrad; Hariharan, Ranganathan; Govind, Vineeth; Jervan, Gert; Hollstein, Thomas; Raik, Jaan Proceedings of the 8th Annual Conference of the Estonian National Doctoral School in Information and Communication Technologies : December 5-6, 2014, Rakvere 2014 / p. 83-86 : ill

Extended checkers for logic-based distributed routing in network-on-chips

Niazmand, Behrad; Hariharan, Ranganathan; Govind, Vineeth; Jervan, Gert; Hollstein, Thomas; Raik, Jaan BEC 2014 : 2014 14th Biennial Baltic Electronics Conference : proceedings of the 14th Biennial Baltic Electronics Conference : Tallinn University of Technology, October 6-8, 2014, Tallinn, Estonia 2014 / p. 77-80 : ill

Fault collapsing in digital circuits using fast fault dominance and equivalence analysis with SSBDDs

Ubar, Raimund-Johannes; Jürimägi, Lembit; Orasson, Elmet; Raik, Jaan VLSI-SoC : Design for Reliability, Security, and Low Power : 23rd IFIP WG 10.5/IEEE International Conference on Very Large Scale Integration, VLSI-SoC 2015 Daejeon, Korea, October 5-7, 2015 : revised selected papers 2016 / p. 23-45 : ill https://doi.org/10.1007/978-3-319-46097-0_2 [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Fault diagnosis in integrated circuits with BIST

Ubar, Raimund-Johannes; Kostin, Sergei; Raik, Jaan; Evartson, Teet; Lensen, Harri 10th Euromicro Conference on Digital System Design Architectures, Methods and Tools, DSD 2007 : 29-31 August 2007, Lübeck, Germany : proceedings 2007 / p. 604-610 : ill <http://dx.doi.org/10.1109/DSD.2007.4341530>

Fault diagnosis in VLSI devices

Ubar, Raimund-Johannes Proceedings of the Estonian Academy of Sciences. Engineering 1995 / 1, p. 51-67

Fault diagnosis of additional vibration in Cartesian robot

Autsou, Siarhei 21st International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Pärnu, Estonia, June 15-18, 2022 2022 / p. 21-22 : ill https://www.ester.ee/record=b5504019*est

Fault diagnosis of output-side diode-bridge in isolated DC-DC series resonant converter

Bakeer, Abualkasim Ahmed Ali; Chub, Andrii; Vinnikov, Dmitri 2022 IEEE 7th International Energy Conference (ENERGYCON) 2022 <https://doi.org/10.1109/ENERGYCON53164.2022.9830339>

Fault modeling and diagnosis in digital systems

Ubar, Raimund-Johannes CREDES Summer School : Dependable Systems Design : handouts 2011 / p. 91-106 : ill

Fault simulation and analysis of high-voltage circuit breaker's spring charging mechanism using a universal motor model

Asad, Bilal; Vaimann, Toomas; Kallaste, Ants; Kilter, Jako; Sardar, Muhammad Usman 2024 IEEE 65th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) 2024 / 5 p
<https://doi.org/10.1109/RTUCON62997.2024.10830846>

Fault simulation with parallel exact critical path tracing in multiple core environment

Gorev, Maksim; Ubar, Raimund-Johannes; Devadze, Sergei 2015 Design, Automation & Test in Europe Conference & Exhibition (DATE) : proceedings 2015 / p. 1180-1185 : ill

Fehlerbestimmung in kombinatorischen Scaltungen durch Lösung der Booleschen Differentialgleichungen

Ubar, Raimund-Johannes Nachrichtentechnik, Elektronik : technisch-wissenschaftliche Zeitschrift für die gesamte elektronische Nachrichtentechnik 1978 / p. 330-334 : ill https://www.ester.ee/record=b1550811*est

Finite element analysis based technique implementation for fault diagnostic of electrical machines

Akbar, Siddique 22nd International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral School of Energy and Geotechnology III : Pärnu, Estonia, August 23-26, 2023 2023 / p. 103-104
https://www.ester.ee/record=b5570906*est

FOPID controllers and their industrial applications: a survey of recent results

Tepljakov, Aleksei; Alagoz, Baris Baykant; **Petlenkov, Eduard** IFAC-PapersOnLine 2018 / p. 25-30
<https://doi.org/10.1016/j.ifacol.2018.06.014> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

A framework for area-efficient concurrent online checkers design

Saltarelli, Pietro; Niazmand, Behrad; Hariharan, Ranganathan; Raik, Jaan; Jervan, Gert; Hollstein, Thomas MEDIAN Finale : Workshop on Manufacturable and Dependable Multicore Architectures at Nanoscale : November 10-11, 2015, Tallinn, Estonia 2015 / p. 64-69 : ill

A framework for combining concurrent checking and online embedded test for low-latency fault detection in NoC routers

Saltarelli, Pietro; Niazmand, Behrad; Raik, Jaan; Govind, Vineeth; Hollstein, Thomas; Jervan, Gert; Hariharan, Ranganathan NOCS '15 : International Symposium on Networks-on-Chip : Vancouver, BC, Canada, September 28-30, 2015 2015 / [8] p. : ill <http://dx.doi.org/10.1145/2786572.2788713>

A framework for comprehensive automated evaluation of concurrent online checkers

Saltarelli, Pietro; Niazmand, Behrad; Raik, Jaan; Hariharan, Ranganathan; Jervan, Gert; Hollstein, Thomas Euromicro Conference on Digital System Design : DSD 2015 : 26-28 August 2015, Funchal, Madeira, Portugal : proceedings 2015 / p. 288-292 : ill <http://dx.doi.org/10.1109/DSD.2015.15>

From online fault detection to fault management in network-on-chips : a ground-up approach

Azad, Siavoosh Payandeh; Niazmand, Behrad; Janson, Karl; Nevin, George; Oyeniran, Adeboye Stephen; Putkaradze, Tsotne; Apneet Kaur; Raik, Jaan; Jervan, Gert; Ubar, Raimund-Johannes; Hollstein, Thomas Proceedings 2017 IEEE 20th International Symposium on Design and Diagnostics of Electronic Circuit & Systems (DDECS) : April 19-21, 2017, Dresden, Germany 2017 / p. 48-53 : ill <https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=7934553>

Functional level test set generation methods

Ubar, Raimund-Johannes Proceedings of the 12th Conference on Fault-Tolerant Systems and Diagnostics, Prague, Czechoslovakia, September, 1989 1989 / p. 46-55

Functional specification and testing of digital systems

Ubar, Raimund-Johannes Multimicroprocessor systems: Proceedings of the 3rd Symposium, Stralsund, oct. 16-20, 1989, Vol 1 1989 / p. 207-217

Generaatorite staatorimähise termodiagnostika

Dorovatovski, Nikolai Elektriala 2003 / 4, lk. 18-19 https://artiklid.elnet.ee/record=b1013524*est

Generation of tests for the localization of single gate design errors in combinational circuits using the stuck-at fault model

Ubar, Raimund-Johannes; Borriane, Dominique XI Brazilian Symposium on Integrated Circuit Design, September 30 - October 3, 1998, Rio de Janeiro, Brazil : proceedings 1998 / p. 51-54 <https://ieeexplore.ieee.org/document/715409>

Genetic approximations for the failure-free security games

Lenin, Aleksandr; Willemson, Jan; Charnamord, Anton Decision and game theory for security : 6th International Conference, GameSec 2015, London, UK, November 4-5, 2015 : proceedings 2015 / p. 311-321 : ill https://doi.org/10.1007/978-3-319-25594-1_17 [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Conference Proceedings at WOS](#) [Article at WOS](#)

Harmonic spectrum analysis of induction motor with broken rotor bar fault

Asad, Bilal; Vaimann, Toomas; Kallaste, Ants; Belahcen, Anouar 59th Annual International Scientific Conference on Power and Electrical Engineering : November 12, 13, 2018, Riga Technical University (RTUCON) : conference proceedings 2018 / 7 p. : ill <https://doi.org/10.1109/RTUCON.2018.8659842>

A hierarchical approach for devising area efficient concurrent online checkers

Niazmand, Behrad; Azad, Siavoosh Payandeh; Ghasempouri, Tara; Raik, Jaan; Jervan, Gert Proceedings 2nd IEEE International Test Conference in Asia : ITC-Asia 2018, 15-17 August 2018, Harbin, China 2018 / p. 139-144 : ill <https://doi.org/10.1109/ITC-Asia.2018.00034>

Hierarchical approach to test generation for digital systems at system, circuit and defect levels

Ubar, Raimund-Johannes 45. Internationales Wissenschaftliches Kolloquium, 04.-06.10.2000 : Tagungsband 2000 / S. 711-716 : III

Hierarchical design error diagnosis in combinational circuits by stuck-at fault test patterns

Ubar, Raimund-Johannes; Jutman, Artur Proceedings of the 6th International Conference on Mixed Design of Integrated Circuits and Systems : MIXDES'99 : Krakow, Poland, 17-19 June 1999 1999 / p. 437-442 : ill <https://www.sciencedirect.com/science/article/pii/S0026271499002036>

Hierarchical fault diagnosis in embedded digital systems with multi-level decision diagrams [Electronic resource]

Ubar, Raimund-Johannes; Evertson, Teet; Lensen, Harri; Aarna, Margit 5th International Conference on Industrial Automation = Cinquieme Conference Internationale sur l'Automatisation Industrielle : June 11-13, 2007, Montreal, Canada 2007 / [6] p. [CD-ROM]

Hierarchical fault simulation for finite state machines

Brik, Marina; Raik, Jaan; Ubar, Raimund-Johannes The 7th Biennial Conference on Electronics and Microsystem Technology "Baltic Electronics Conference" : BEC 2000 : October 8 - 11, 2000, Tallinn, Estonia : conference proceedings 2000 / p. 145-148 : ill

High-level decision diagram simulation for diagnosis and soft-error analysis

Raik, Jaan; Repinski, Urmass; Jenihhin, Maksim; Chepurov, Anton Design and test technology for dependable systems-on-chip 2011 / p. 294-309 : ill <https://www.igi-global.com/chapter/high-level-decision-diagram-simulation/51406>

High-level design error diagnosis using backtrace on decision diagrams

Raik, Jaan; Repinski, Urmass; Ubar, Raimund-Johannes; Jenihhin, Maksim; Tšepurov, Anton 28th Norchip Conference : Tampere, Finland, 15-16 November 2010 : conference program and papers 2010 / [4] p. : ill
<http://dx.doi.org/10.1109/NORCHIP.2010.5669486>

High-level fault diagnosis in RISC processors with Implementation-Independent Functional Test

Oyeniran, Adeboye Stephen; Jenihhin, Maksim; Raik, Jaan; Ubar, Raimund-Johannes 2022 IEEE Computer Society Annual Symposium on VLSI (ISVLSI) : Nicosia, Cyprus : 04-06 July 2022 2022 / p. 32-37 <https://doi.org/10.1109/ISVLSI54635.2022.00019>

Hilbert transform, an effective replacement of Park's vector modulus for the detection of rotor faults

Asad, Bilal; Vaimann, Toomas; Kallaste, Ants; Rassõlkin, Anton; Belahcen, Anouar 2019 Electric Power Quality and Supply Reliability Conference (PQ) & 2019 Symposium on Electrical Engineering and Mechatronics (SEEM), Kärda, Estonia, June 12-15, 2019 : proceedings 2019 / 4 p. : ill <https://doi.org/10.1109/PQ.2019.8818227>

Hybrid built-in self-test : methods and tools for analysis and optimization of BIST = Sisseehitatud hübriidne isetestimine : meetodid ja vahendid analüüsiks ning optimeerimiseks

Orasson, Elmet 2007 https://www.ester.ee/record=b2305436*est

Hybrid built-in self-test and test generation techniques for digital systems

Jervan, Gert 2005 https://www.ester.ee/record=b2177537*est

HyFBIST : hybrid functional built-in self-test in microprogrammed data-paths of digital systems

Ubar, Raimund-Johannes; Mazurova, Natalja; Smahtina, Julia; Orasson, Elmet; Raik, Jaan Proceedings of the 11th International Conference : Mixed Design of Integrated Circuits and Systems : MIXDES 2004 : Szczecin, Poland, 24-26 June 2004 2004 / p. 497-502 : ill

Identification and location of PD defects in medium voltage underground power cables using high frequency current transformer

Shafiq, Muhammad; Kiitam, Ivar; Taklaja, Paul; Kütt, Lauri; Kauhaniemi, Kimmo; Palu, Ivo IEEE Access 2019 / art. 8771171, p. 103608 - 103618 : ill <https://doi.org/10.1109/ACCESS.2019.2930704> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Identification and rejuvenation of NBTI-critical logic paths in nanoscale circuits

Jenihhin, Maksim; Squillero, Giovanni; Tihhomirov, Valentin; Kostin, Sergei; Raik, Jaan; Ubar, Raimund-Johannes Journal of electronic testing : theory and applications (JETTA) 2016 / p. 273-289 : ill <https://doi.org/10.1007/s10836-016-5589-x> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Identification and rejuvenation of NBTI-critical paths in nanoscale logic circuits

Jenihhin, Maksim 1st International Workshop on Reliability and Aging in Forthcoming Electronic Systems : May 28-29, 2015, Cluj-Napoca, Romania 2015 / [1] p

Identifying untestable faults in sequential circuits using test path constraints

Viilukas, Taavi; Karputkin, Anton; Raik, Jaan; Jenihhin, Maksim; Ubar, Raimund-Johannes; Fujiwara, Hideo Journal of electronic testing : theory and applications (JETTA) 2012 / p. 511-521 : ill <https://link.springer.com/article/10.1007/s10836-012-5312-5>

Implementation of Digital Twins for electrical energy conversion systems in selected case studies

Rassõlkin, Anton; Orosz, Tamas; Demidova, Galina; Kuts, Vladimir; Rjabtšikov, Viktor; Vaimann, Toomas; Kallaste, Ants Proceedings of the Estonian Academy of Sciences 2021 / p. 19-39 : ill <https://doi.org/10.3176/proc.2021.1.03> https://doi.org/wp-content/plugins/kirj/pub/proc-1-2021-19-39_20210201183802.pdf [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Implementation-independent functional test for transition delay faults in microprocessors

Oyeniran, Adeboye Stephen; Ubar, Raimund-Johannes; Jenihhin, Maksim; Raik, Jaan 2020 23rd Euromicro Conference on Digital System Design (DSD), 26-28 August 2020, Kranj, Slovenia 2020 / p. 646-650 <https://doi.org/10.1109/DSD51259.2020.00105>

Improved diagnostic approach for BRB detection and classification in inverter-driven induction motors employing sparse stacked autoencoder (SSAE) and lightGBM

Khan, Muhammad Amir; Asad, Bilal; Vaimann, Toomas; Kallaste, Ants Electronics (Switzerland) 2024 / art. 1292

An improved estimation technique for hybrid BIST test set generation

Jervan, Gert; Peng, Zebo; **Ubar, Raimund-Johannes**; Korelina, Olga DDECS : 8th IEEE Workshop on Design and Diagnostics of Electronic Circuits and Systems : April 13-16, 2005, Sopron, Hungary : proceedings 2005 / p. 182-185 : ill <https://www.ida.liu.se/labs/eslab/publications/pap/db/ddecs05.pdf>

Improved quantification of partial discharges for reliable diagnostics of multipath connections in MV substations

Shafiq, Muhammad; Kiitam, Ivar; Isa, Muzamir; **Taklaja, Paul**; **Palu, Ivo**; **Kütt, Lauri** 2021 IEEE 62nd International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) 2021 / 6 p <https://doi.org/10.1109/RTUCON53541.2021.9711585>

Improving legibility of motor current spectrum for broken rotor bars fault diagnostics

Asad, Bilal; **Vaimann, Toomas**; **Kallaste, Ants**; **Rassõlkin, Anton**; **Belahcen, Anouar**; **Iqbal, Muhammad Naveed** Scientific Journal of Riga Technical University. Electrical, control and communication engineering 2019 / p. 1–8 : ill <https://doi.org/10.2478/ecce-2019-0001>

Influence of different tooth belt transmission faults on the work of a cartesian robot

Autsou, Siarhei; **Vaimann, Toomas**; **Rassõlkin, Anton**; **Kudelina, Karolina**; **Asad, Bilal** Proceedings of the 2022 20th International Conference on Mechatronics - Mechatronika, (ME), Pilsen, Czech Republic, December 7–9, 2022 / 5 p. : ill <https://doi.org/10.1109/ME54704.2022.9982815>

Infrasarkanas termografijas diagnostika elektroenergetika

Dorovatovski, Nikolai; Banga, A. Energetika un automatizacija 2003 / 5, p. 26-29

In-process deterring of the working mode in CNC turning

Aruväli, Tanel; **Serg, Risto**; **Preden, Jürjo-Sören**; **Otto, Tauno** Estonian journal of engineering 2011 / 1, p. 4-16 : ill https://www.kirj.ee/public/Engineering/2011/issue_1/eng-2011-1-4-16.pdf

Inverter-fed motor drive system : a systematic analysis of condition monitoring and practical diagnostic techniques

Energies 2023 / art. 5628 <https://doi.org/10.3390/en16155628> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Investigating the progression of insulation degradation in power cable based on partial discharge measurements

Hassan, Waqar; **Shafiq, Muhammad**; Hussain, Ghulam Amjad; **Choudhary, Maninder**; **Palu, Ivo** Electric power systems research 2023 / art. 109452 <https://doi.org/10.1016/j.epsr.2023.109452> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Investigations of the diagnosability of digital networks with BIST

Ubar, Raimund-Johannes; **Kostin, Sergei**; **Raik, Jaan** 10th IEEE Latin American Test Workshop : 2-5 March 2009, Brazil 2009 / [6] p. : ill

IoT based tools and methods for electrical machine diagnostics

Raja, Hadi Ashraf 19th International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Tartu, Estonia, January 14-17, 2020 / p. 115-116 : ill https://www.ester.ee/record=b5291755*est

IoT based tools and methods for electrical machine diagnostics = Asjade interneti põhised tööriistad ja meetodid elektrimasinate diagnostikaks

Raja, Hadi Ashraf 2023 <https://doi.org/10.23658/taltech.20/2023> <https://digikogu.taltech.ee/et/Item/3015334f-c32b-43ae-ba2d-bfcd4536aba5> https://www.ester.ee/record=b5558656*est

20 aastat maailma testiteaduse tippkonkurentsis

Ubar, Raimund-Johannes Mente et Manu 2015 / lk. 12-13 : fot https://artiklid.elnet.ee/record=b2749536*est

Karolina Kudelina: andekaid inseneritüdrukuid tuleb julgustada [Võrguväljaanne]

Kudelina, Karolina err.ee 2022 ["Karolina Kudelina: andekaid inseneritüdrukuid tuleb julgustada"](https://www.err.ee/1007222/karolina-kudelina-andekaid-inseneritüdrukuid-tuleb-julgustada)

Kergröõbassõidukite ajamid ja juhtimine

Laugis, Juhan; **Lehtla, Tõnu**; **Joller, Jüri**; **Rosin, Argo**; **Vinnikov, Dmitri**; **Lehtla, Madis** 2008 http://www.ester.ee/record=b2394445*est

Kordsete rikete diagnostika järjestikülilitustes

Puulinn, S.; **Ubar, Raimund-Johannes** XXIX vabariiklik üliõpilaste teaduslik- tehniline konverents 30. märtsist - 1. aprillini 1977 : ettekannete teesid 1977 / lk. 43 https://www.ester.ee/record=b2449987*est

Korrosiooni ja roomavuse tingimustes töötava energiaseadme metalli valik, diagnostika ja jääkressursi määramise süsteem

Tallermo, Harri; Klevtsov, Ivan; Uus, M. Maintenance & Energy : Baltic'99 messikonverents : 6.-7. mai 1999, Tallinn 1999 / [9] lk. mapis

Learning digital test and diagnostics via internet [Electronic resource]

Ubar, Raimund-Johannes; Jutman, Artur; Kruus, Margus; Orasson, Elmet; Devadze, Sergei; Wuttke, Heinz-Dietrich International journal of computing & information sciences 2006 / 2, p. 86-96 : ill

Localization of single-gate design errors in combinational circuits by diagnostic information about stuck-at faults

Ubar, Raimund-Johannes; Borriane, Dominique Proceedings of the 2nd International Workshop on Design and Diagnostics of Electronic Circuits and Systems, Szczyrk, Poland, September 2-4, 1998 1998 / p. 73-79
https://www.researchgate.net/publication/238687832_Localization_of_Single_Gate_Design_Errors_in_Combinational_Circuits_by_Diagnostic_Information_about_Stuck-at_Faults

Macro level defect-oriented diagnosability of digital circuits

Kostin, Sergei; Ubar, Raimund-Johannes; Raik, Jaan Info- ja kommunikatsioonitehnoloogia doktorikooli IKTDK neljanda aastakonverentsi artiklite kogumik : 26.-27. novembril 2010, Essu mõis 2010 / lk. 53-56 : ill

Macro level defect-oriented diagnosability of digital circuits

Kostin, Sergei; Ubar, Raimund-Johannes; Raik, Jaan BEC 2010 : 2010 12th Biennial Baltic Electronics Conference : proceedings of the 12th Biennial Baltic Electronics Conference : Tallinn University of Technology, October 4-6, 2010, Tallinn, Estonia 2010 / p. 149-152 : ill

Mathematical modelling of three phase squirrel cage induction motor and related signal processing for fault diagnostics = Kolme faasilise lühisrootoriga asünkroonmootori matemaatiline modelleerimine ning lähtuv rikediagnostiline signaalitöötlus

Asad, Bilal 2021 <https://digikogu.taltech.ee/et/Item/8b5869c8-de30-4380-a0c6-8a6a2d6b6ff3> https://www.ester.ee/record=b5452432*est
<https://doi.org/10.23658/taltech.40/2021>

Measuring and identifying aging-critical paths in FPGAs

Pfeifer, Petr; **Raik, Jaan; Jenihhin, Maksim; Ubar, Raimund-Johannes;** Pliva, Zdenek MEDIAN 2015 : the 4th Workshop on Manufacturable and Dependable Multicore Architectures at Nanoscale : March 13, 2015, Grenoble, France 2015 / p. 56-61 : ill

Methods for improving the accuracy and efficiency of fault simulation in digital systems = Meetodid digitaalsüsteemide rikete simuleerimise täpsuse ja efektiivsuse tõstmiseks

Kõusaar, Jaak 2019 <https://digi.lib.ttu.ee/i/?11667>

Methods of condition monitoring and fault detection for electrical machines

Kudelina, Karolina; Asad, Bilal; Vaimann, Toomas; Rassõlkin, Anton; Kallaste, Ants; Khang, Huynh Van Energies 2021 / art. 7459, 20 p. : ill <https://doi.org/10.3390/en14227459> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Microprocessor based traction control system and diagnostic algorithms for the traction drive TVM1

Lehtla, Madis Symposium "Topical Problems of Education in the Field of Electrical and Power Engineering" : Kuressaare, Estonia, January 19-24, 2004 2004 / p. 58-61 : ill

Mixed-level identification of fault redundancy in microprocessors

Oyeniran, Adeboye Stephen; Ubar, Raimund-Johannes; Jenihhin, Maksim; Gürsoy, Cemil Cem; Raik, Jaan LATS 2019 : 20th IEEE Latin American Test Symposium : Santiago, Chile, March 11th - 13th 2019 2019 / 6 p. : ill
<https://doi.org/10.1109/LATW.2019.8704591>

Model-based diagnosis of power converters

Vodovozov, Valery; Raud, Zoja; Vinnikov, Dmitri Технічна електродинаміка 2009 / Тематический выпуск: Силовая електроніка та енергоефективність. 2, с. 38-43

Modified winding function-based model of squirrel cage induction motor for fault diagnostic

Asad, Bilal 19th International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Tartu, Estonia, January 14-17, 2020 2020 / p. 93-94 : ill https://www.ester.ee/record=b5291755*est

Modified winding function-based model of squirrel cage induction motor for fault diagnostics

Asad, Bilal; Vaimann, Toomas; Belahcen, Anouar; Kallaste, Ants; Rassõlkin, Anton; Iqbal, Muhammad Naveed IET electric power applications 2020 / p. 1722-1734 <https://doi.org/10.1049/iet-epa.2019.1002> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Module-level fault diagnosis in combinational networks

Ubar, Raimund-Johannes Fault-tolerant systems and diagnostics : FTSD 1978 / p. 297-314

Monitoring of manufacturing machinery using smart dust applications

Aruväli, Tanel; Serg, Risto; Otto, Tauno; Preden, Jürjo-Sören 9th International Symposium "Topical problems in the field of electrical and power engineering". Doctoral school of energy and geotechnology. II : Pärnu, Estonia, June 14-19, 2010 2010 / p. 209-213 : ill

Motion tracking glove for augmented reality and virtual reality

Vu, Trieu Minh; Katushin, Nikita; Pumwa, John Paladyn, journal of behavioral robotics 2019 / p. 160–166 : ill

<https://doi.org/10.1515/pjbr-2019-0012> [Journal metrics at Scopus](#) [Article at Scopus](#)

Multifrequency testing and diagnosis of analog and mixed signal circuits using neuromorphic classifier

Lantsov, V.; Rudakov, O.; Mosin, S. BEC'98 : the 6th Biennial Conference on Electronics and Microsystems Technology, October 7-9, 1998, Tallinn, Estonia : proceedings 1998 / p. 347-348

Multi-level test generation and fault diagnosis in digital systems

Ubar, Raimund-Johannes 1992

Multi-loop model reference adaptive control of fractional-order PID control systems

Alagoz, Baris Baykant; **Tepljakov, Aleksei; Petlenkov, Eduard;** Yeroglu, Celaledin 2017 40th International Conference on Telecommunications and Signal Processing TSP : July 5-7, 2017, Barcelona, Spain 2017 / p. 702-705 : ill

<https://doi.org/10.1109/TSP.2017.8076078>

Multiple fault testing in systems-on-chip with high-level decision diagrams

Ubar, Raimund-Johannes; Oyeniran, Adeboye Stephen; Schölzel, Mario; Vierhaus, Heinrich Theodor Proceedings of 2015 10th International Design & Test Symposium (IDT) : Dead Sea, Jordan, 14-16 December 2015 2015 / p. 66-71 : ill

<http://dx.doi.org/10.1109/IDT.2015.7396738>

Multiple stuck-at-fault detection theorem

Ubar, Raimund-Johannes; Kostin, Sergei; Raik, Jaan Proceedings of the 2012 IEEE 15th International Symposium on Design and Diagnostics of Electronic Circuits & Systems (DDECS) : April 18-20, 2012 Tallinn, Estonia 2012 / p. 236-241 : ill

Multi-sensor fault diagnosis of induction motors using random forests and support vector machine

Saberi, Alireza Nemat; Sandirasegaram, Sarvavignoban; **Belahcen, Anouar; Vaimann, Toomas;** Sobra, Jan 2020 International Conference on Electrical Machines (ICEM), 23-26 august 2020, Gothenburg, Sweden : online : proceedings 2020 / p. 1404–1410

<https://doi.org/10.1109/ICEM49940.2020.9270689>

Mutation-based verification and error correction in high-level designs = Mutatsioonidel põhinev verifitseerimine ja vigade parandamine kõrgtaseme skeemides

Hantson, Hanno 2015 https://www.eester.ee/record=b4518212*est

Necessity for implementation of inverse problem theory in electric machine fault diagnosis

Vaimann, Toomas; Belahcen, Anouar; Kallaste, Ants SDEMPED 2015 : 10th IEEE International Symposium on Diagnostics for Electric Machines, Power Electronics and Drives : Guarda, Portugal, September 1-4, 2015 : proceedings 2015 / p. 380-385 : ill

<http://dx.doi.org/10.1109/DEMPED.2015.7303718>

New built-in self-test scheme for SoC interconnect

Jutman, Artur; Ubar, Raimund-Johannes; Raik, Jaan The 9th World Multi-Conference on Systemics, Cybernetics and Informatics : WMSCI 2005 : July 10-13, 2005, Orlando, Florida, USA. Vol. IV 2005 / p. 19-24 : ill

https://www.researchgate.net/publication/237375234_New_Built-In_Self-Test_Scheme_for_SoC_Interconnect

New opportunities in real-time diagnostics of induction machines

Baraškova, Tatjana; Kudelina, Karolina; Shirokova, Veroonika Energies 2024 / art. 3265 <https://doi.org/10.3390/en17133265>

[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

NoCDepend : a flexible and scalable dependability technique for 3D networks-on-chip

Hollstein, Thomas; Azad, Siavoosh Payandeh; Kogge, Thilo; Ying, Haoyuan; Hofmann, Klaus 2015 IEEE 18th International Symposium on Design and Diagnostics of Electronic Circuits & Systems DDECS 2015 : 22-24 April 2015, Belgrade, Serbia : proceedings 2015 / p. 75-78 : ill <http://dx.doi.org/10.1109/DDECS.2015.30>

Novel approaches to electrical machine fault diagnosis

Vaimann, Toomas; Antonino-Daviu, Jose Alfonso; **Rassõlkin, Anton** Energies 2023 / art. 5641 <https://doi.org/10.3390/en16155641>

[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Novel architectures for contractive autoencoders with embedded learning

Kerner, Madis; Tammemäe, Kalle; Raik, Jaan; Hollstein, Thomas 2020 17th Biennial Baltic electronics conference, Tallinn, Estonia, October 6-8, 2020 : proceedings 2020 / 6 p. : ill <https://doi.org/10.1109/BEC49624.2020.9277246>

A novel random approach to diagnostic test generation

Osimiry, Emmanuel Ovie; Ubar, Raimund-Johannes; Kostin, Sergei; Raik, Jaan 2nd IEEE NORCAS Conference : 1-2

A numerical study for plant-independent evaluation of fractional-order PID controller performance

Alagoz, Baris Baykant; **Tepljakov, Aleksei**; Yeroglu, Celaeddin; Gonzalez, Emmanuel A.; Hossein Nia, S. Hassan; **Petlenkov, Eduard** IFAC-PapersOnLine 2018 / p. 539-544 : ill <https://doi.org/10.1016/j.ifacol.2018.06.151> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Observer-based residual generation for nonlinear discrete-time systems

Kaldmäe, Arvo; **Kotta, Ülle** Proceedings of the Estonian Academy of Sciences 2018 / p. 325-336 <https://doi.org/10.3176/proc.2018.4.01> http://www.kirj.ee/public/proceedings_pdf/2018/issue_4/proc-2018-4-325-336.pdf [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

On test generation for microprocessors for extended class of functional faults

Oyeniran, Adeboye Stephen; **Ubar, Raimund-Johannes**; **Jenihhin, Maksim**; **Raik, Jaan** VLSI-SoC: New technology enabler : 27th IFIP WG 10.5/IEEE International Conference on Very Large Scale Integration, VLSI-SoC 2019 Cusco, Peru, October 6–9, 2019 : Revised and Extended Selected Papers 2020 / p. 21-44 <https://doi.org/10.1007/978-3-030-53273-4> [Conference proceedings at Scopus](#) [Article at Scopus](#)

On the necessity and implementation of vibrodiagnostics

Teder, Leo; **Arjassov, Gennadi**; **Pappel, Toivo** BEM & FEM-2000 : Математическое моделирование в механике сплошных сред на основе методов граничных и конечных элементов : XVIII международная конференция : труды том III : 18th International Conference Mathematical Modelling in Solid Mechanics by Boundary & Finite Element Methods : May 16-20, 2000. Proceedings, III 2000 / p. 214-219 : ill

Online partial discharge diagnostics in medium voltage branched cable networks

Shafiq, Muhammad; Lehtonen, Matti; Isa, M.; **Kütt, Lauri** Proceedings of 2013 Fourth International Conference on Power Engineering, Energy and Electrical Drives (POWERENG) : Istanbul, Turkey, 13-17 May 2013 2013 / p. 246-251 : ill <https://ieeexplore.ieee.org/abstract/document/6635614>

Optimization of boundary scan tests using FPGA-based efficient scan architectures

Aleksejev, Igor; **Devadze, Sergei**; **Jutman, Artur**; **Shibin, Konstantin** Journal of electronic testing : theory and applications (JETTA) 2016 / p. 245-255 : ill <https://doi.org/10.1007/s10836-016-5588-y> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Optimization of built-in self-test in digital systems = Sisseehitatud enesetestimise optimeerimine digitaalsüsteemides
Kruus, Helena 2011

Overview of e-learning environment for web-based study of testing and diagnostics of digital systems

Jutman, Artur; **Ubar, Raimund-Johannes**; **Wuttke, Heinz-Dietrich** 5th European Workshop on Microelectronics Education - EWME 2004, Lausanne, 2004 2004 / p. 173-176 https://link.springer.com/chapter/10.1007/978-1-4020-2651-5_41

An overview of fuzzy logic approaches for fault diagnosis in energy conversion devices

Demidova, Galina; **Rassölkin, Anton**; **Vaimann, Toomas**; **Kallaste, Ants**; **Zakis, Janis**; **Suzdalenko, Alexander** 2021 28th International Workshop on Electric Drives : Improving Reliability of Electric Drives (IWED) 2021 / 7 p <https://doi.org/10.1109/IWED52055.2021.9376389>

Overview of sensorless diagnostic possibilities of induction motors with broken rotor bars [Electronic resource]

Vaimann, Toomas; **Kallaste, Ants**; **Kilk, Aleksander** Proceedings of the 12th International Scientific Conference Electric Power Engineering 2011, Kouty nad Desnou, Czech Republic, May 17-19, 2011 2011 / [4 p.] : ill. [CD-ROM] <https://www.scinapse.io/papers/2583767167>

Park's vector approach for detection of broken rotor bars in frequency converter fed induced generator

Vaimann, Toomas; **Belahcen, Anouar**; **Martinez, Javier**; **Kilk, Aleksander** Proceedings of the 13th International Scientific Conference Electric Power Engineering 2012 : EPE 2012 : Brno. Vol. 2 2012 / p. 985-988 : ill https://www.academia.edu/17399045/Parks_Vector_Approach_for_Detection_Broken_Rotor_Bars_in_Frequency_Converter_Fed_Induction_Generator

Performance comparison of PD data acquisition techniques for condition monitoring of medium voltage cables

Shafiq, Muhammad; **Kiitam, Ivar**; **Kauhaniemi, Kimmo**; **Taklaja, Paul**; **Kütt, Lauri**; **Palu, Ivo** Energies 2020 / art. 4272, 14 p. : ill <https://doi.org/10.3390/en13164272> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Performance comparison of smartphones and a wearable motion sensor for patient m-assessment [Online resource]

Kask, Triin; **Kuusik, Alar** BEC 2018 : 2018 16th Biennial Baltic Electronics Conference (BEC) : proceedings of the 16th Biennial Baltic Electronics Conference, October 8-10, 2018 2018 / 4 p.: ill <https://doi.org/10.1109/BEC.2018.8600973>

Platform independent event correlation tool for network management

Vaarandi, Risto NOMS 2002 : 2002 IEEE/IFIP Network Operations and Management Symposium "Management Solutions for the

New Communications World" : proceedings 2002 / p. 907-909 <https://ieeexplore.ieee.org/document/1015640>

Power-constrained hybrid BIST test scheduling in an abort-on-first-fail test environment

He, Zhiyuan; **Jervan, Gert**; Peng, Zebo; Eles, Petru Proceedings : DSD'2005 : 8th Euromicro Conference on Digital System Design : Architectures, Methods and Tools : Porto, Portugal, August 30 - September 3, 2005 2005 / p. 83-86 : ill <https://ieeexplore.ieee.org/document/1559782>

Precision and accuracy of pulse propagation velocity measurement in power cables

Kiitam, Ivar; Shafiq, Muhammad; Choudhary, Maninder; Parker, Martin; Palu, Ivo; Taklaja, Paul Energies 2023 / art. 2702 <https://doi.org/10.3390/en16062702> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Proceedings of the 2011 IEEE Symposium on Design and Diagnostics of Electronic Circuits and Systems : April 13-15, 2011, Gottbus, Germany

2011 <https://www.computer.org/csdl/proceedings/ddecs/2011/12OmNvTBBbs>

Proceedings of the 2012 IEEE 15th International Symposium on Design and Diagnostics of Electronic Circuits & Systems (DDECS) : April 18-20, 2012 Tallinn, Estonia

2012 http://www.ester.ee/record=b2777270*est

Pöörlevate elektrimasinate diagnostika staatorisignaaside analüüsi meetodil

Vaimann, Toomas; Kallaste, Ants; Kilk, Aleksander Taastuvate energiaallikate uurimine ja kasutamine : neljateistkümnenda konverentsi kogumik = Investigation and Usage of Renewable Energy Sources : fourteenth conference proceedings : [8. nov. 2012, Tartu] 2012 / lk. 78-87 : ill

Red-brown pigmentation of acidipropionibacterium jensenii is tied to haemolytic activity and cyl-Like gene cluster

Smolander, Olli-Pekka; Deptula, Paulina; Loivamaa, Iida; Laine, Pia; Roberts, Richard J.; Piironen, Vieno; Paulin, Lars; Savijoki, Kirsi; Auvinen, Petri; Varmanen, Pekka Microorganisms 2019 / p. 15 p. : ill <https://doi.org/10.3390/microorganisms7110512> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Rejuvenation of nanoscale logic at NBTI-critical paths using evolutionary TPG

Palermo, N.; **Tihhomirov, Valentin**; Copetti, Thiago; **Jenihhin, Maksim; Raik, Jaan; Kostin, Sergei** 2015 16th Latin American Test Symposium (LATS 2015) : Puerto Vallarta, Mexico, 25-27 March 2015 2015 / [6] p. : ill <http://dx.doi.org/10.1109/LATW.2015.7102405>

Reliability and operation diagnostics of light rail electric transport in Estonia [Electronic resource]

Rosin, Argo; Lehtla, Tõnu; Möller, Taavi EPE-PEMC 2006 : 12th International Power Electronics and Motion Control Conference : Portorož, Slovenia, August 30 - September 1, 2006 : proceedings 2006 / p. 1751-1756 : ill. [CD-ROM]

Research and training environment for digital design and test

Ubar, Raimund-Johannes; Wuttke, Heinz-Dietrich Proceedings of the Eighth IASTED International Conference on Computers and Advanced Technology in Education : August 29-31, 2005, Oranjestad, Aruba 2005 / p. 232-237 : ill <https://ieeexplore.ieee.org/document/1408779>

Research environment for teaching digital test

Ivask, Eero; Jutman, Artur; Orasson, Elmet; Raik, Jaan; Ubar, Raimund-Johannes; Wuttke, Heinz-Dietrich Synergies between Information and Automation : 49. Internationales Wissenschaftliches Kolloquium, 27.-30.9.2004, Technische Universität Ilmenau, Germany. Volume 2 2004 / p. 468-473 : ill https://pld.ttu.ee/dildis/publications/IWK'2004_res_inv.pdf

Results of thermographic diagnostics of electric grid contact junctions and generators of oil shale power plants

Dorovatovski, Nikolai; Liik, Olev Oil shale 2005 / 2S, p. 243-257 : ill https://artiklid.elnet.ee/record=b2346725*est

Re-using chip level DFT at board level

Gu, Xinli; **Jutman, Artur** Proceedings : 2012 17th IEEE European Test Symposium (ETS) : May 28th-June 1st, 2012, Annecy, France 2012 / 1 p https://www.academia.edu/25351525/Re_using_chip_level_DFT_at_board_level

Review of electrical machine diagnostic methods applicability in the perspective of Industry 4.0

Asad, Bilal; Vaimann, Toomas; Rassõlkin, Anton; Kallaste, Ants; Belahcen, Anouar Scientific Journal of Riga Technical University. Electrical, control and communication engineering 2018 / p. 108-116 : ill <https://doi.org/10.2478/ecce-2018-0013>

Review of high voltage instrument transformer condition monitoring

Asefi, Sajjad; Asad, Bilal; Leinakse, Madis; Manninen, Henri; Kilter, Jako; Vaimann, Toomas; Kallaste, Ants; Tealane, Marko; Landsberg, Mart IEEE Transactions on Dielectrics and Electrical Insulation 2024 / p. 3331-3341 <https://doi.org/10.1109/TDEI.2024.3422260> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

SAPDEC: a program devoted to automatic fault diagnosis of electric circuits

Liberatore, A.; Manetti, S.; Piccirilli, Maria Cristina; Reatti, A. Automation, simulation & measurement. Section A, Automation. Section

M, Measurement : 3rd biennial conference : Tallinn, Estonia, October 7-11, 1991 = Automatiseerimine, modelleerimine ja mõõtmine : 3. rahvusvaheline konverents / Tallinna Tehnikaülikool 1992 / p. 16-22: ill https://www.ester.ee/record=b1064034*est

Scalable algorithm for structural fault collapsing in digital circuits

Ubar, Raimund-Johannes; Jürimägi, Lembit; Orasson, Elmet; Raik, Jaan 2015 IFIP/IEEE International Conference on Very Large Scale Integration (VLSI-SoC) : October 5-7, 2015, Daejeon, Korea 2015 / p. 171-176 : ill

Self-diagnosis in digital systems = Isediagnoosivad digitaalsüsteemid

Kostin, Sergei 2012 https://www.ester.ee/record=b2757857*est

Self-healing photovoltaic microconverter with zero redundancy and accurate low-cost fault detection

Bakeer, Abualkasim Ahmed Ali; Chub, Andrii; Vinnikov, Dmitri IEEE transactions on industrial electronics 2024 / p. 646-656
<https://doi.org/10.1109/TIE.2023.3250836> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Sensorless detection of induction motor faults using the clarke vector approach

Vaimann, Toomas; Kallaste, Ants; Kilk, Aleksander Scientific journal of Riga Technical University. Serija 4, Power and electrical engineering 2011 / p. 43-48 : ill
https://www.researchgate.net/publication/258547195_Sensorless_Detection_of_Induction_Motor_Rotor_Faults_Using_the_Clarke_Vector_Approach

A set of tools for estimating quality of built-in self-test in digital circuits

Jervan, Gert; Markus, Antti; Paomets, Priidu; Raik, Jaan; Ubar, Raimund-Johannes Proceedings of the International Symposium on Signals, Circuits and Systems, Iasi (Romania), October 2-3, 1997 1997 / p. 362-365

7-valued algebra for transition delay fault analysis

Kõusaar, Jaak; Ubar, Raimund-Johannes BEC 2014 : 2014 14th Biennial Baltic Electronics Conference : proceedings of the 14th Biennial Baltic Electronics Conference : Tallinn University of Technology, October 6-8, 2014, Tallinn, Estonia 2014 / p. 89-92 : ill

Shared Structurally Synthesized BDDs for speeding-up parallel pattern simulation in digital circuits

Ubar, Raimund-Johannes; Jürimägi, Lembit; Raik, Jaan 2015 Nordic Circuits and Systems Conference (NORCAS) : NORCHIP & International Symposium on System-on-Chip (SoC) : 1st IEEE NORCAS Conference : 26-28 October 2015, Oslo, Norway 2015 / [4] p. : ill <http://dx.doi.org/10.1109/NORCHIP.2015.7364406>

Shift register based TPG for at-speed interconnect BIST

Jutman, Artur MIEL 2004 : 24th International Conference on Microelectronics : Niš, Serbia and Montenegro, 16-19 May 2004 : proceedings. Volume 2 2004 / p. 751-754 : ill <https://ieeexplore.ieee.org/document/1314941?signout=success>

Simple event correlator - best practices for creating scalable configurations

Vaarandi, Risto; Blumbergs, Bernhards; Caliskan, Emin 2015 IEEE International Multi-Disciplinary Conference on Cognitive Methods in Situation Awareness and Decision (CogSIMA 2015) : 9-12 March 2015, Orlando, Florida, USA 2015 / p. 96-100
<http://dx.doi.org/10.1109/COGSIMA.2015.7108181>

Simulating system for minicomputer diagnostic programs

Kitsnik, Peeter; Ubar, Raimund-Johannes; Viilup, Agu Preprints 1st IFAC/IFIP Symposium on Software for Computer Control, SOCOCO-76 : Tallinn, USSR, May 25-28, 1976 1976 / lk. [?] https://www.ester.ee/record=b1291026*est <http://www.digar.ee/id/nlib-digar:451346>

Single gate design error diagnosis in combinational circuits

Ubar, Raimund-Johannes; Borrione, Dominique Proceedings of the Estonian Academy of Sciences. Engineering 1999 / 1, p. 3-21: ill https://artiklid.elnet.ee/record=b1000315*est

Sisseehitatud isetestimine digitaalsüsteemides

Kruus, Helena A & A 2011 / lk. 32-37 : ill https://artiklid.elnet.ee/record=b2472216*est

Software-based self-test for microprocessors with high-level decision diagrams = Mikroprotsessorite tarkvara-põhine enesetestimine kõrgtasandi otsustusdiagrammide põhjal

Jasnetski, Artjom 2018 <https://digi.lib.ttu.ee/i/?10629> https://www.ester.ee/record=b5151486*est

State-of-the-Art techniques for fault diagnosis in electrical machines: Advancements and future directions

Akbar, Siddique; Vaimann, Toomas; Asad, Bilal; Kallaste, Ants; Sardar, Muhammad Usman; Kudelina, Karolina Energies 2023 / Art. 6345 <https://doi.org/10.3390/en16176345> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Strained condition diagnosis and fatigue life prediction for metals under cyclic temperature oscillations

Klevtsov, Ivan 1994 http://www.ester.ee/record=b1066290*est

Structural decision diagrams in digital test : theory and applications

Ubar, Raimund-Johannes; Raik, Jaan; Jenihhin, Maksim; Jutman, Artur 2024 <https://doi.org/10.1007/978-3-031-44734-1>
https://www.ester.ee/record=b5734441*est

Structural fault collapsing by superposition of BDDs for test generation in digital circuits

Ubar, Raimund-Johannes; Mironov, Dmitri; Raik, Jaan; Jutman, Artur Proceedings of the Eleventh International Symposium on Quality Electronic Design ISQED 2010 : March 22-24, 2010 San Jose, California USA 2010 / p. 250-257 : ill
<https://ieeexplore.ieee.org/document/5450451>

Structural test generation with employment of multiple observation time strategy

Skobtsov, Vadim BEC'96 : the 5th Biennial Baltic Electronics Conference, October 7-11, 1996, Tallinn, Estonia : proceedings 1996 / p. 299-302: ill

Study of bearing currents in induction machine : diagnostic possibilities, fault detection, and prediction

Kudelina, Karolina; Raja, Hadi Ashraf; Naseer, Muhammad Usman; Autou, Siarhei; Asad, Bilal; Vaimann, Toomas; Kallaste, Ants Electrical engineering 2024 / 14 p. : ill <https://doi.org/10.1007/s00202-024-02411-x> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A survey of broken rotor bar fault diagnostic methods of induction motor

Asad, Bilal; Vaimann, Toomas; Rassõlkin, Anton; Kallaste, Ants; Belahcen, Anouar Scientific Journal of Riga Technical University. Electrical, control and communication engineering 2018 / p. 117–124 : ill <https://doi.org/10.2478/ecce-2018-0014>

Süntaksvigade lokaliseerimine, parandamine ja sekundaarsete vigade elimineerimine segastrateegiaga eelnevusanalüüsis

Rohtla, Hanno; Lindemann, P.; Vooglaid, Aare XXIX vabariiklik üliõpilaste teaduslik- tehniline konverents 30. märtsist - 1. aprillini 1977 : ettekannete teesid 1977 / lk. 147 https://www.ester.ee/record=b2449987*est

Symbolic test generation for hierarchically modeled digital systems

Zaugarov, Viktor 1993 https://www.ester.ee/record=b2090336*est

A synthetic, hierarchical approach for modelling and managing complex systems' quality and reliability = Sünteetiline, hierarhiline lähenemine keerukate süsteemide kvaliteedi ja töökindluse modelleerimiseks ja haldamiseks

Balakrishnan, Aneesh 2022 <https://doi.org/10.23658/taltech.11/2022> <https://digikogu.taltech.ee/et/Item/a594d3ec-0e6b-4a78-819a-fe1f47992612>

System modelling and measurement under the view of design of testability and fault diagnosis of analog circuits

Liu, Ji-Gou; Frühauf, Uwe BEC'96 : the 5th Biennial Baltic Electronics Conference, October 7-11, 1996, Tallinn, Estonia : proceedings 1996 / p. 295-298: ill

Teaching diagnostic modeling of digital systems with decision diagrams [Electronic resource]

Ubar, Raimund-Johannes; Raik, Jaan; Mironov, Dmitri; Evertson, Teet; Orasson, Elmet; Aarna, Margit; Wuttke, Heinz-Dietrich Proceedings of 12th IASTED International Conference on Computers and Advanced Technology in Education - CATE 2009 : St.Thomas, US, November 22-24, 2009 2009 / p. 1-6. [CD-ROM]

Teaching digital system test

Oyeniran, Adeboye Stephen; Ubar, Raimund-Johannes; Kruus, Margus The 27th EAAEIE Annual Conference : June 7-9, 2017, Grenoble 2017 / [6] p

Teaching research in the laboratory using diagnosis environment for digital systems

Kostin, Sergei; Ubar, Raimund-Johannes; Raik, Jaan; Aarna, Margit; Brik, Marina; Wuttke, Heinz-Dietrich 2009 EAAEIE annual conference : 20th Annual Conference of the European Association for Education in Electrical and Information Engineering : Valencia, Spain, June 22-24, 2009 2009 / p. 280-283 <https://ieeexplore.ieee.org/document/5335462>

Test configurations for diagnosing faulty links in NoC switches

Raik, Jaan; Ubar, Raimund-Johannes; Govind, Vineeth Info- ja kommunikatsioonitehnoloogia doktorikooli IKTDK teise aastakonverentsi artiklite kogumik : 11.-12. mai 2007, Viinistu kunstimuseum 2007 / lk. 33-37 : ill

Test generation techniques and algorithms

Ubar, Raimund-Johannes; Gramatova, Elena; Fisherova, Maria Handbook of testing electronic systems 2005 / p. 99-173 : ill

Test pattern generation for microprocessor systems on the alternative graph model

Ubar, Raimund-Johannes Proceedings of the 3rd Symposium of the IMEKO Technical Committee on Technical Diagnostics (TC10), held in Moscow, October 3 - 5, 1983 1985 / p. 403-410

Testentwurf für digitale Geräte mit Hilfe der Alternativgraphen

Voolaine, Andrus; Pall, Martin; Plakk, Mari Fehler in Automaten 1989 / S. 31-44 : ill

Testing of systems using software

Ubar, Raimund-Johannes Concise encyclopedia of software engineering 1993 / p. 352-356

The cluster computation-based hybrid FEM–analytical model of induction motor for fault diagnostics

Asad, Bilal; Vaimann, Toomas; Belahcen, Anouar; Kallaste, Ants; Rassõlkin, Anton; Iqbal, Muhammad Naveed Applied sciences 2020 / art. 7572, 15 p. : ill <https://doi.org/10.3390/app10217572> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The cluster computation-based hybrid FEM–analytical model of induction motor for fault diagnostics

Asad, Bilal; Vaimann, Toomas; Belahcen, Anouar; Kallaste, Ants; Rassõlkin, Anton; Iqbal, Muhammad Naveed Advances in machine fault diagnosis 2022 / p. 27-41 <https://doi.org/10.3390/app10217572>

The control of operation modes in a traction drive

Lehtla, Madis; Joller, Jüri The 4th Research Symposium of Young Scientists : Actual Problems of Electrical Drives and Industry Automation : Tallinn, Estonia, May 17-21, 2003 2003 / p. 77-82 : ill

The low voltage start-up test of induction motor for the detection of broken bars

Asad, Bilal; Vaimann, Toomas; Belahcen, Anouar; Kallaste, Ants; Rassõlkin, Anton; Heidari, Hamidreza 2020 International Conference on Electrical Machines (ICEM), 23-26 august 2020, Gothenburg, Sweden : online : proceedings 2020 / p. 1481-1487 <https://doi.org/10.1109/ICEM49940.2020.9271018>

The methodology of high-voltage instrument transformers technical state index assessment

Khalyasmaa, Alexandra I.; Vinter, Iakov; Eroshenko, Stanislav A.; Bolgov, Viktor 2020 21-st International Symposium on Electrical Apparatus and Technologies (SIELA), 3-6 June 2020, Bourgas, Bulgaria : proceedings 2020 / 4 p <https://doi.org/10.1109/SIELA49118.2020.9167110>

The usage of fuzzy logic for detecting mechanical faults in gearboxes of robotic system

Autsou, Siarhei; Kudelina, Karolina; Vaimann, Toomas; Rassõlkin, Anton 2024 International Conference on Electrical Machines (ICEM) 2024 / 7 p <https://doi.org/10.1109/ICEM60801.2024.10700425>

Thermographic diagnostics of electrical equipment of Eesti Energia Ltd.

Dorovatovski, Nikolai 2004 http://www.ester.ee/record=b1987660*est

A tool for teaching hierarchical fault diagnosis in digital circuits

Ubar, Raimund-Johannes; Kostin, Sergei; Orasson, Elmet; Evartson, Teet; Brik, Marina Proceedings of 9th European Workshop on Microelectronics Education – EWME'12 : Grenoble, France, May 9-11, 2012 2012 / p. 1-4

Topological analysis of SSBDDs with applications in fault diagnosis

Ubar, Raimund-Johannes Proceedings of 10th International Workshop on Boolean Problems : Freiberg, Germany, September 19-21, 2012 2012 / p. 1-16

Traction and control of light rail vehicles

Laugis, Juhan; Lehtla, Tõnu; Joller, Jüri; Rosin, Argo; Vinnikov, Dmitri; Lehtla, Madis 2008 http://www.ester.ee/record=b2394449*est

Transient modeling and recovery of non-stationary fault signature for condition monitoring of induction motors

Asad, Bilal; Vaimann, Toomas; Belahcen, Anouar; Kallaste, Ants; Rassõlkin, Anton; Shams Ghahfarokhi, Payam; Kudelina, Karolina Applied sciences 2021 / 17 p. : ill <https://doi.org/10.3390/app11062806> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Transient modeling and recovery of non-stationary fault signature for condition monitoring of induction motors

Asad, Bilal; Vaimann, Toomas; Belahcen, Anouar; Kallaste, Ants; Rassõlkin, Anton; Shams Ghahfarokhi, Payam Advances in machine fault diagnosis 2022 / p. 43-59 <https://doi.org/10.3390/app11062806>

Transition delay fault simulation with parallel critical path back-tracing and 7-valued algebra

Kõusaar, Jaak; Ubar, Raimund-Johannes; Devadze, Sergei; Raik, Jaan Microprocessors and microsystems 2015 / p. 1130-1138 : ill <https://doi.org/10.1016/j.micpro.2015.05.003> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Trends and challenges in intelligent condition monitoring of electrical machines using machine learning

Kudelina, Karolina; Vaimann, Toomas; Asad, Bilal; Rassõlkin, Anton; Kallaste, Ants; Demidova, Galina Applied sciences 2021 / art. 2761, 19 p. : ill <https://doi.org/10.3390/app11062761> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Troubleshooting and debugging functions

Ruban, Olga; Laugis, Juhan 5th International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral School of Energy and Geotechnology : Kuressaare, January 14-19, 2008 2008 / p. 216-221 : ill

Troubleshooting process analysis and development of application for decision making enhancement

Mahmood, Kashif; Ševtšenko, Eduard; Karaulova, Tatjana; Branten, Eva; Maleki, Meysam 26th DAAAM International Symposium on Intelligent Manufacturing and Automation 2015 (DAAAM 2015) : Zadar, Croatia, 21-24 October 2015. Volume 1 2016 / p. 0663-0671 : ill <http://dx.doi.org/10.2507/26th.daaam.proceedings.090>

Turbo tester - diagnostic package for research and training

Aarna, Margit; Ivask, Eero; Jutman, Artur; Orasson, Elmet; Raik, Jaan; Ubar, Raimund-Johannes; Vislogubov, Vladislav; Wuttke, Heinz-Dietrich Radioelectronics and informatics 2003 / p. 69-73 : ill

UGV-type robot motion control simulation

Hiiemaa, Maido; Tamre, Mart 7th International Symposium "Topical Problems in the Field of Electrical and Power Engineering" : Doctoral School of Energy and Geotechnology. II : [Narva-Jõesuu, Estonia, 16.06-19.06.2009] 2009 / p. 43-46 : ill

Understanding boundary scan test with Trainer 1149

Jutman, Artur; Devadze, Sergei; Shibin, Konstantin; Rosin, Vjatšeslav; Ubar, Raimund-Johannes 22nd EAAEIE annual conference : June, 13-15, 2011, Maribor, Slovenija : conference book 2011 / p. 21-22 <https://ieeexplore.ieee.org/document/6165727>

Understanding MPSoCs : exploiting memory microarchitectural vulnerabilities of high performance NoC-based MPSoCs

Sepulveda, Johanna; **Azad, Siavoosh Payandeh; Niazmand, Behrad; Jervan, Gert** SAMOS '18 : Proceedings of the 18th International Conference on Embedded Computer Systems: Architectures, Modeling, and Simulation, Pythagorion, Greece, July 15-19, 2018 2018 / p. 162-166 <https://doi.org/10.1145/3229631.3239367> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Untestable fault identification in sequential circuits using model-checking

Raik, Jaan; Fujiwara, Hideo; Ubar, Raimund-Johannes; Krivenko, Anna 2002-2011 : 20th Anniversary compendium of papers from Asian Test Symposium 2011 / p. 257-262 : ill <https://ieeexplore.ieee.org/document/4711554>

Using analysis of stator current for squirrel-cage induction motor rotor faults diagnostics

Vaimann, Toomas; Kallaste, Ants; Kilk, Aleksander Electrical and Control Technologies : Proceedings of the 6th International Conference on Electrical and Control Technologies (ECT-2011), May 5-6, 2011, Kaunas, Lithuania 2011 / p. 245-250 : ill

Uued meetodid digitaalsüsteemide disaini ja diagnostika valdkonnas : kommentaar Eesti Vabariigi teaduse aastapreemia pälvinud tööle

Ubar, Raimund-Johannes Tallinna Tehnikaülikooli aastaraamat 1998 1999 / lk. 142-145

Uurimissuuna "Arvutustehnoliste seadmete ja süsteemide automatiseeritud projekteerimis- ja diagnostikasüsteemide väljatöötamine" areng

Keevallik, Andres Tehnikauuringute areng Eesti NSV-s : vabariikliku konverentsi ettekannete teesid Tallinn, 15.-16. oktoober 1986 1986 / lk. 111-113 https://www.ester.ee/record=b1258828*est

WebTT - digitaalskeemide testimine ja diagnostikaalaste õppelaborite e-keskkond : [TTÜ arvutitehnika instituut esitles e-Ülikooli konverentsil kolme õppetöös kasutatavat süsteemi]

Robal, Tarmo; Orasson, Elmet Mente et Manu 2005 / 5. mai, lk. 5 : fot https://www.ester.ee/record=b1242496*est

Vektoranalizatorok a tehnikai es orvosi diagnosztikaban

Min, Mart Mérés és automatika: megjelenik a Méréstechnikai és Automatizálási Tudományos Egyesület Szerkesztésében 1989 / p. 55-61

Vektorielle alternative graphen und Fehlerdiagnose für digitale Systeme

Ubar, Raimund-Johannes Nachrichtentechnik, Elektronik : technisch-wissenschaftliche Zeitschrift für die gesamte elektronische Nachrichtentechnik 1981 / p. 25-28 : ill https://www.ester.ee/record=b1550811*est

Vibration and stator current spectral analysis of induction machine operating under dynamic eccentricity

Sobra, Jan; Belahcen, Anouar; Vaimann, Toomas 2015 International Conference on Electrical Drives and Power Electronics (EDPE) : 18th International Conference, 7th Joint Slovakian-Croatian Conference : proceedings : Hotel Slovan, Tatranska Lomnica, The High Tatras, Slovakia, September 21-23, 2015 2015 / p. 285-290 : ill <http://dx.doi.org/10.1109/EDPE.2015.7325307>

Vibrodiagnostics of the processing accuracy of machined details in metal

Arjassov, Gennadi; Otto, Tauno Mechanics & Materials in Design : 5th International Conference on Mechanics & Materials in Design : Portugal, 24-26 July 2006 2006 / p. 211-212

Virtual reconfigurable scan-chains on FPGAs for optimized board test

Aleksejev, Igor; Jutman, Artur; Devadze, Sergei; Shibin, Konstantin 2015 16th Latin American Test Symposium (LATS 2015) :

Автоматизированное построение программ самодиагностики микропроцессоров

Storožev, Sergei Tallinna Tehnikaülikooli Toimetised 1990 / lk. 90-97: ill

Автоматический синтез тестов для диагностики цифровых устройств

Lohuaru, Tõnu; Pall, Martin; **Ubar, Raimund-Johannes** Eesti NSV Teaduste Akadeemia toimetised. Füüsika. Matemaatika = Известия Академии наук Эстонской ССР. Физика. Математика = Proceedings of Academy of Sciences of the Estonian SSR. Physics. Mathematics 1983 / lk. 84-94 https://www.ester.ee/record=b1264310*est

Акустодиагностика свойств неоднородной стандартной вязкоупругой среды

Ravasoo, Arvi Теория и расчет тонкостенных пространственных конструкций 1985 / с. 143-151

Альтернативные графы и техническая диагностика дискретных объектов

Ubar, Raimund-Johannes Электронная техника. Серия 8, Управление качеством и стандартизация : научно-технический сборник 1988 / с. 33-57

Анализ процессов распространения тепла в структурах импульсных силовых приборов вблизи плоскостей спая кремниевых пластин в высоковольтные "столбы"

Glazov, Aleksei; **Korolkov, Oleg** Известия высших учебных заведений. Материалы электронной техники 2012 / с. 65-69 : ил

Анализ систем диагностики МГД-привода

Musikka, Arvo; Oorn, Hillar; Jansikene, Raik Гибкие автоматизированные производственные системы и их элементы для литейного производства 1987 / с. 48-53

Верификация на основе симуляции с нахождением и исправлением ошибок для С-дизайнов

Repinski, Urmas Программные продукты и системы = Programmnue produkty i sistem = Software & systems 2012 / с. 229-237 : ил

Вычисление булевых производных при анализе диагностических тестов

Ubar, Raimund-Johannes Проблемы надежности при проектировании систем управления: тезисы докладов Второй Всесоюзной конференции. Вып. 3 1976 / с. 55

Генерирование групповых тестов для цифровых схем на модели альтернативных графов

Kivi, E.; Ubar, Raimund-Johannes Тезисы докладов XXXI студенческой научно-технической конференции 1980 / с. 52-55 https://www.ester.ee/record=b1319482*est

Генерирование тестов для цифровых схем при помощи модели альтернативных графов

Ubar, Raimund-Johannes Труды по электротехнике и автоматике : сборник статей. 14 1976 / с. 75-81 https://www.ester.ee/record=b2190768*est <https://digikogu.taltech.ee/et/Item/aa35e320-87b1-405b-9cac-3b90c51867d1>

Декомпозиционный метод диагноза неисправностей в комбинационных схемах

Ubar, Raimund-Johannes Анализ и моделирование технических устройств и систем АСУТП 1978 / с. 3-22 : илл https://www.ester.ee/record=b2191003*est <https://digikogu.taltech.ee/et/Item/00fbff38-ccfb-411c-ad55-0c6b943b766b>

Деловая игра "Диагностика проблем деятельности предприятия" : учебно-методический материал для преподавателей и студентов экономических специальностей

Kannike, Svetlana 1997 https://www.ester.ee/record=b1059945*est

Диагноз комбинационных схем при расширенном классе неисправностей

Ubar, Raimund-Johannes Материалы всесоюзной конференции "Автоматизированное техническое проектирование электронной аппаратуры", 5-6 июня 1979 г. 1979 / с. 177-180

Диагностика кратных неисправностей в комбинационных схемах

Viilup, Agu; Ubar, Raimund-Johannes; Heiter, U. Труды по электротехнике и автоматике : сборник статей. 11 1973 / с. 89-94 : илл https://www.ester.ee/record=b2190624*est <https://digikogu.taltech.ee/et/Item/d6e57925-e104-44e1-a218-c5b3110d9996>

Единый подход к решению задач тестового диагностирования дискретных систем

Ubar, Raimund-Johannes; Lohuaru, Tõnu; Evertson, Teet IX симпозиум по проблеме избыточности в информационных системах, 3-8 июня 1986 г. : тезисы докладов 1986 / с. 32-35

Единый подход к решению задач тестового диагностирования дискретных систем

Ubar, Raimund-Johannes; Lohuaru, Tõnu; Evertson, Teet IX симпозиум по проблеме избыточности в информационных системах, 3 июня - 8 июня 1986 года : Тезисы докладов 1986 / с. 32-35

Единый подход к синтезу тестов цифровых схем и систем

Ubar, Raimund-Johannes Межреспубликанская школа-семинар по технической диагностике, 8-12 октября 1984 года : тезисы докладов 1984 / с. 75-81 : илл https://www.ester.ee/record=b1237891*est

Загрузка и пополнение базы знаний в диагностической экспертной системе

Terandi, Jaak Обработка данных. Построение трансляторов. Вопросы программирования 1987 / с. 17-24

Измерительная аппаратура для моторного стенда

Hurt, N.; Rebane, R.; Lepik, Märt XXX студенческая научно-техническая конференция вузов Прибалтийских республик, Белорусской ССР и Молдавской ССР, 8-10 апреля 1986 года : тезисы докладов. Том II, Автоматика. Энергетика. Механика. Химия 1986 / с. 148 https://www.ester.ee/record=b1305565*est

Испытание впускных и выпускных тракторов ДВС

Parisalu, E.; Vahtra, A.; Lepik, Märt XXX студенческая научно-техническая конференция вузов Прибалтийских республик, Белорусской ССР и Молдавской ССР, 8-10 апреля 1986 года : тезисы докладов. Том II, Автоматика. Энергетика. Механика. Химия 1986 / с. 151 https://www.ester.ee/record=b1305565*est

Исследование двухдвигательного магнетогидродинамического (МГД-) привода в дозаторном режиме : дисс. на соиск. учен. степ. магистра техн. наук : 05.23.01 - электрооборудование = [Kahemootorilise magnetohüdrodünaamilise (MHD-) dosaatori uurimine]

Janskene, Raik 1992 https://www.ester.ee/record=b2135382*est

Исследование и разработка методов анализа диагностических тестов для цифровых схем : автореферат ... кандидата технических наук (05.13.01)

Kitsnik, Peeter 1981 https://www.ester.ee/record=b1337813*est

Исследование и разработка методов анализа диагностических тестов для цифровых схем : диссертация на соискание ученой степени кандидата технических наук (05.13.01)

Kitsnik, Peeter 1980 https://www.ester.ee/record=b4632972*est

Исследование и разработка методов тестового диагностирования дискретных систем : автореферат ... доктора технических наук (05.13.13)

Ubar, Raimund-Johannes 1986 https://www.ester.ee/record=b1564280*est

Исследование и разработка методов управления поиском дефектов в цифровых схемах : автореферат кандидата технических наук (05.13.01)

Evartson, Teet 1986 https://www.ester.ee/record=b1301665*est

Компилятор иерархической модели ЦВМ

Viilup, Agu Труды по электротехнике и автоматике : сборник статей. 14 1976 / с. 83-91 : илл https://www.ester.ee/record=b2190768*est <https://digikogu.taltech.ee/et/Item/aa35e320-87b1-405b-9cac-3b90c51867d1>

Комплекс средств диагностирования дискретных устройств

Ubar, Raimund-Johannes; Lohuaru, Tõnu Мир ПК 1991 / 1, с. 122-125 : ил

Метод алгоритмического генерирования тестов при контроле цифровых схем

Grigorjeva, Ksenja; Lohuaru, Tõnu; Evartson, Teet Синтез и диагностика цифровых устройств и систем 1982 / с. 75-83 : илл https://www.ester.ee/record=b1328194*est <https://digikogu.taltech.ee/et/Item/febd586e-d7fa-4fbd-bf41-40576a75f94b>

Метод диагноза неисправностей в последовательностных системах

Grigorjeva, Ksenja; Ubar, Raimund-Johannes Расчет и проектирование приборов, устройств и систем технической кибернетики 1980 / с. 35-44 https://www.ester.ee/record=b1281890*est <https://digikogu.taltech.ee/et/Item/8e0abfe2-9020-4ebd-85d1-fd67de0d1b30>

Метод локализации неисправностей при проверке цифровых схем автоматическими тестерами

Viilup, Agu; Lohuaru, Tõnu; Ubar, Raimund-Johannes Анализ и моделирование технических устройств и систем АСУТП 1977 / с. 37-45 : илл https://www.ester.ee/record=b2190987*est <https://digikogu.taltech.ee/et/Item/b7c66054-0b4f-4684-9453-442bc7e6e200>

Метод нахождения диагностических и установочных последовательностей для сетей автоматов

Keevallik, Andres; Kruus, Margus Машинное проектирование электронных устройств и систем 1986 / с. 43-51

Метод построения парных диагностических тестовых последовательностей для последовательностных схем

Grigorjeva, Ksenja Расчет и проектирование приборов, устройств и систем технической кибернетики 1980 / с. 21-30 : илл https://www.ester.ee/record=b1264145*est <https://digikogu.taltech.ee/et/Item/81bf2178-a9f8-417d-86c7-2000cca6a01e>

Метод эквивалентного преобразования диагностических словарей

Ubar, Raimund-Johannes Вопросы расчета и проектирования автоматических информационных систем 1975 / с. [?]

Методические указания к лабораторным работам по диагностике автомобилей

1976 https://www.ester.ee/record=b1351544*est

Методы тестового диагностирования дискретных систем

Ubar, Raimund-Johannes Машинное проектирование электронных устройств и систем 1986 / с. 57-69

Модель ЦВМ как объекта диагностики

Viilup, Agu Анализ и моделирование технических устройств и систем АСУТП 1977 / с. 31-36

https://www.ester.ee/record=b2190987*est <https://digikogu.taltech.ee/et/Item/b7c66054-0b4f-4684-9453-442bc7e6e200>

Модуль тарирования как средство диагностики электромагнитного дозатора

Jansikene, Raik Тезисы докладов семинара "Новые разновидности электропривода и возможности их применения" 1990 / с. 91-96: ил

Некоторые практические аспекты акустодиагностики напряженно-деформированного состояния элементов конструкций

Anissimov, V.A.; Kutsenko, A.N. Теория и расчет тонкостенных пространственных конструкций 1987 / с. 90-99

О возможности диагностирования загрязнения экранов топки парового котла

Bloch, A.; Käär, Harri; Lausmaa, Toomas; Tiikma, Toomas Tallinna Tehikaülikooli Toimetised 1992 / lk. 87-96: ил

О генерировании тестов цифровых схем в реальном времени

Grigorjeva, Ksenja; Ubar, Raimund-Johannes XVII областная научно-техническая конференция по вопросам повышения эффективности и качества систем и средств управления (май 1981 года) : тезисы докладов 1981 / с. 112

О развитии научно-исследовательских работ по разработке методов машинного проектирования и диагностики устройств и систем вычислительной техники

Keevallik, Andres Развитие научных исследований в области технических наук в Эстонской ССР : тезисы республиканской конференции, Таллин, 15-16 октября 1986 г. 1986 / с. 120-122 https://www.ester.ee/record=b1231513*est

О функциональном моделировании диагностических тестов в схемах ЦВМ

Vaher, V.; Ubar, Raimund-Johannes XX студенческая научно-техническая конференция вузов Прибалтийских республик, Белорусской ССР и Молдавской ССР : тезисы докладов. Часть 1 1974 / с. 133 https://www.ester.ee/record=b1306141*est

Об автоматизации процедур синтеза тестов для дискретных систем на модели альтернативных графов

Grigorjeva, Ksenja; Einasto, N. Машинное проектирование электронных устройств и систем 1986 / с. 104-109

Об общей постановке задач тестовой диагностики цифровых схем

Ubar, Raimund-Johannes Труды по электротехнике и автоматике : сборник статей. 14 1976 / с. 69-73

https://www.ester.ee/record=b2190768*est <https://digikogu.taltech.ee/et/Item/aa35e320-87b1-405b-9cac-3b90c51867d1>

Описание неисправностей цифровых устройств

Ubar, Raimund-Johannes Расчет и проектирование приборов, устройств и систем технической кибернетики 1980 / с. 3-9 : илл

https://www.ester.ee/record=b1264145*est <https://digikogu.taltech.ee/et/Item/81bf2178-a9f8-417d-86c7-2000cca6a01e>

Описание постоянных неисправностей ЦВМ

Viilup, Agu Расчет и проектирование приборов, устройств и систем технической кибернетики 1980 / с. 69-77

https://www.ester.ee/record=b1281890*est <https://digikogu.taltech.ee/et/Item/8e0abfe2-9020-4ebd-85d1-fd67de0d1b30>

Описание ЦВМ моделью векторных альтернативных графов с целью синтеза диагностических микропрограмм

Ubar, Raimund-Johannes Расчет и проектирование приборов, устройств и систем технической кибернетики 1980 / с. 11-20 : илл https://www.ester.ee/record=b1264145*est <https://digikogu.taltech.ee/et/Item/81bf2178-a9f8-417d-86c7-2000cca6a01e>

Оптимизация процессов диагностирования цифровых устройств в реальном времени

Grigorjeva, Ksenja; Lohuaru, Tõnu; Evartson, Teet; Ubar, Raimund-Johannes Вычислительная техника : тезисы докладов республиканской конференции "Автоматизированное техническое проектирование электронной аппаратуры" (1–2 июня 1982 г.) 1982 / с. 144

Персональная среда проектирование цифровых систем

Raud, Rein; Lohuaru, Tõnu; Ubar, Raimund-Johannes Автоматизация проектирования электронной аппаратуры : Межвузовский тематический научный сборник 1989 / с. 39-43

Преппроцессор к системе автоматического синтеза тестов

Alango, Villem; Kont, Toomas Машинное проектирование электронных устройств и систем 1986 / с. 93-103

Проектирование диагностических тестов для микропроцессорных БИС и систем

Einasto, N.; Ubar, Raimund-Johannes XXX студенческая научно-техническая конференция вузов Прибалтийских республик, Белорусской ССР и Молдавской ССР, 8-10 апреля 1986 года : тезисы докладов. Том II, Автоматика. Энергетика. Механика. Химия 1986 / с. 40 https://www.ester.ee/record=b1305565*est

Разработка и исследование методов синтеза тестов для дискретных устройств на основе модели альтернативных графов : автореферат ... кандидата технических наук (05.13.01)

Plakk, Mari 1984 https://www.ester.ee/record=b1235788*est

Разработка и исследование методов синтеза тестов для дискретных устройств на основе модели альтернативных графов : диссертация на соискание ученой степени кандидата технических наук

Plakk, Mari 1984 https://www.ester.ee/record=b4634584*est

Разработка системы диагностики ЦВМ

Viilup, Agu Анализ и моделирование технических устройств и систем АСУТП 1978 / с. 23-32 : илл

https://www.ester.ee/record=b2191003*est <https://digikogu.taltech.ee/et/Item/00fbff38-ccfb-411c-ad55-0c6b943b766b>

Решение задач диагностики цифровых устройств модели альтернативных графов

Kurilova, L.; Popova, S.; Tulina, M.; Ubar, Raimund-Johannes; Jakubovits, M. XXV студенческая научно-техническая конференция вузов Прибалтийских республик, Белорусской ССР и Молдавской ССР, 21-23 апреля 1981 года : тезисы докладов. Том 2, Автоматика. Энергетика. Механика. Химия 1981 / с. 39 https://www.ester.ee/record=b1322629*est

Синтез и диагностика цифровых устройств и систем

1982 https://www.ester.ee/record=b1328194*est <https://digikogu.taltech.ee/et/Item/febd586e-d7fa-4fbd-bf41-40576a75f94b>

Система диагностики

Kingisepp, M.; Oja, H.; Normet, A.; Riiman, K.; Soomuse, E.; Tepandi, Jaak XXX студенческая научно-техническая конференция вузов Прибалтийских республик, Белорусской ССР и Молдавской ССР, 8-10 апреля 1986 года : тезисы докладов. Том I, Общественные науки. Физико-математические науки. Строительство. Экономика 1986 / с. 160 https://www.ester.ee/record=b1305540*est

Склеивание тестов при разработке диагностических микропрограмм

Viilup, Agu Тезисы докладов Республиканской научно-технической конференции, посвященной Дню радио. Секция "Схемотехника" 1980 / с. 9-10 https://www.ester.ee/record=b1304217*est

Тестовая диагностика цифровых устройств : учебное пособие. II, Синтез и анализ тестов. Дешифрация диагностических экспериментов

Ubar, Raimund-Johannes 1981 https://www.ester.ee/record=b1326795*est

Тестовое диагностирование дискретных систем на модели АГ

Ubar, Raimund-Johannes Техническая диагностика : VI всесоюзное совещание, Ростов н/Д, май 1987 г. : Тезисы докладов 1987 / с. 155

Универсальный подход к автоматизации проектирования тестов для широкого класса дискретных объектов

Ubar, Raimund-Johannes Машинное проектирование электронных устройств и систем 1986 / с. 70-92

Управление процессами диагноза логических схем

Toome, T.; Ubar, Raimund-Johannes; Evertson, Teet Тезисы докладов XXXI студенческой научно-технической конференции 1980 / с. 55-57 https://www.ester.ee/record=b1319482*est

Управление процессом поиска дефектов в цифровых схемах содержащих счётные структуры

Viilup, Agu; Ubar, Raimund-Johannes; Evertson, Teet Межреспубликанская школа-семинар по технической диагностике, 8-12 октября 1984 года : тезисы докладов 1984 / с. 28-32 https://www.ester.ee/record=b1237891*est