

IKT DK doktorantide kaitstud kraadid ja publikatsioonid (kuni 31.10.2008)

Kaitstud doktorikraadid

TTÜ:
2005

1. **D. Kumlander.** Some practical algorithms to solve the maximum clique problem. Juhendaja prof. Rein Kuusik. Oponendid prof. P. R. J. Östergård (Helsingi Tehnikaülikool), prof. M. Tombak (TÜ). 9.12.2005.
2. **T. Veskioja.** Stable marriage problem and college admission. Juhendaja prof. em. L. Vöhandu. Oponendid dr. H. Haanpää (Helsingi Tehnikaülikool), prof. M. Tombak (TÜ). 9.12.2005.
3. **J. Fomina.** Low power finite state machine synthesis. Juhendaja dots. A. Sudnitsõn. Oponendid prof. A. Zakrevski (Minski Informaatikaprobleemide Ühendinstituut), prof. V. Hahhanov (Harkovi Rahvuslik Raadioelektronika Ülikool). 15.12.2005.

2006

4. **E. Ivask.** Digital test in web-based environment. Juhendaja prof. R. Ubar. Oponendid H. Krupnova (STMicroelectronics, Grenoble), G. Elst (Fraunhofer Institute for Integrated Circuits, Dresden). 5.7.2006.
5. **E. Eessaar.** Relational and object-relational database management systems as platforms for managing software engineering artifacts. Juhendaja prof. R. Kuusik. Oponendid prof. B. Thalheim (Christian-Albrechts-Univ. zu Kiel), prof. J. Kiho (TÜ). 18.12.2006.

2007

6. **R. Gordon.** Südame dünaamika ja südamesisese bioimpedantsi modelleerimine. Juhendaja prof. M. Min. Oponendid prof. J. Hyttinen (Tampere Tehnikaülikool), dots. J. Vedru (TÜ). 9.3.2007.
7. **M. Listak.** A task-oriented design of a biologically inspired robot. Juhendajad prof. M. Kruusmaa, dots. M. Kruus. Oponendid prof. E. Maehle (Univ. zu Lübeck), prof. P. Ellervee (TTÜ). 4.9.2007.
8. **E. Orasson.** Hybrid built-in self-test - methods and tools for analysis and optimization of BIST. Juhendaja prof. Raimund Ubar. Oponendid prof. Einar Aas (NTNU, Trondheim), prof. Bernd Straube (Fraunhofer Institute for Integrated Circuits, Dresden). 24.10.2007.
9. **J. Ernits.** Two state space reduction techniques for explicit state model checking. Juhendaja prof. Jüri Vain. Oponendid prof. Kim Guldstrand Larsen (Aalborgi Ülikool), prof. Varmo Vene (TÜ). 29.11.2007.
10. **E. Petlenkov.** Neural networks based identification and control of nonlinear systems: ANARX model based approach. Juhendaja prof. Ennu Rüstern. Oponendid prof. Robert Tenno (Helsinki Tehnikaülikool), prof. Tõnu Lehtla (TTÜ). 6.12.2007.

2008

11. **I. Liiv.** Pattern discovery using seriation and matrix reordering: a unified view, extensions and an application to inventory management. Juhendaja prof. Rein Kuusik. Oponendid dots. Timo Honkela (Helsinki Tehnikaülikool), prof. Jaak Vilo (TÜ). 29.8.2008.

12. **A. Pokatilov.** Development of national standard for voltage unit based on solid-state references. Juhendaja prof. Toomas Rang (TTÜ). Oponendid prof. Igor Zakharov (Harkovi Rahvuslik Raadio-elektronika Ülikool), prof. Albrecht Zur (Fachhochschule Kiel). 24.10.2008.
13. **M. Jenihhin.** Simulation-based hardware verification with high-level decision diagrams. Juhendajad dr. Jaan Raik, prof. Raimund Ubar (TTÜ). Oponendid dr. Rainer Dorsch (IBM, Böblingen), prof. Franco Fummi (Università di Verona). 8.12.2008.
14. **I. Tšahhirov.** Security protocols analysis in the computational model—dependency flow graphs-based approach. Juhendajad prof. Jaak Tepandi (TTÜ), konsultant dr. Peeter Laud (CybAS). Oponendid dr. Cédric Fournet (Microsoft Research, Cambridge), prof. Varmo Vene (TÜ). 15.12.2008.

TÜ:
2006

1. **K. Heero.** Path planning and learning strategies for mobile robots in dynamic partially unknown environment. Juhendajad dots. J. Willemsen ja van-tead. M. Kruusmaa. Oponent prof. P. Fiorini (Univ. di Verona). 19.6.2006.

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2. **M. Issakova.** Solving of linear equations, linear inequalities and systems of linear equations in interactive learning environment. Juhendaja dots. R. Prank. Oponendid prof. J.-F. Nicaud (Univ. Joseph Fourier) ja dots. J. Henno (TTÜ). 6.9.2007.

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3. **S. Laur.** Cryptographic protocol design. (Helsinki Univ. of Techn.) Juhendaja prof. K. Nyberg. Oponent prof. S. Vaudenay (EPF Lausanne). 25.4.2008.

KüBI:
2008

1. **A. Saabas.** Logics for low-level code and proof-preserving program transformations. Juhendajad prof. Tarmo Uustalu (KüBI) ja akad. Enn Tõugu (KüBI). Oponendid dr. Bernd Fischer (Univ. of Southampton), prof. David Sands (Chalmers Univ. of Technology and Göteborg Univ.). 14.11.2008.

Publikatsioonid

(Loetud on iga doktorandi kõik publikatsioonid selle aja vältel, kui ta oli IKTDKs.)

TTÜ:
2005

1. **P. Annus,** V. Kaulio, M. Min, A. Kristins. Delta-sigma data acquisition module with USB-interface. *Scient. Proc. of Riga Techn. Univ., Ser. 7., Telecomm. and Electronics*, pp. 26-29. Riga Techn. Univ., 2005.
2. **P. Annus,** J. Lamp, M. Min, T. Paavle. Modelling, design and test of a bioimpedance measurement system with carrier compensation. *Scient. Proc. of Riga Techn. Univ., Ser. 7., Telecomm. and Electronics*, pp. 22-25. Riga Techn. Univ., 2005.
3. **P. Annus,** J. Lamp, M. Min, T. Paavle. Design of a bioimpedance measurement system using direct carrier compensation. In *Proc. of 2005 European Conf. on Circuit Theory and Design, ECCTD 2005 (Cork, Aug./Sept 2005)*, v. 3, pp. III/23-III/26. IEEE, 2005. doi: 10.1109/ecctd.2005.1523051

4. M. Brik, **E. Fomina**, R. Ubar. A proposal for optimisation of low-powered FSM testing. In *Proc. of 3rd East-West Design and Test Wksh., EWDTW 2005 (Odessa, Sept. 2005)*, pp. 15-20, 2005.
5. **S. Devadze**, A. Sudnitson. FSM decomposition software for education and research. In *Proc. of IEEE Int. Conf. Computer as a Tool, EUROCON 2005 (Belgrade, Nov. 2005)*, v. 1, pp. 839-482. IEEE, 2005. article at IEEExplore
6. **E. Eessaar**. Architecture of Pattern Management Software System. In J. Eder, H.-M. Haav, A. Kalja, J. Penjam, eds., *Commun. of 9th East-European Conf. on Advances in Databases and Information Systems, ADBIS 2005 (Tallinn, Sept. 2005)*, v. 152 of *CEUR Wksh. Proc.*, 19 pp. RWTH Aachen, 2005. article at CEUR-WS
7. **E. Eessaar**. Truly relational databases as a platform for the artifact management. In A. G. Nilsson, R. Gustas, W. Wojtkowski, W. G. Wojtkowski, S. Wrycza, J. Zupan, eds., *Pre-Conf. Proc. of 14th Int. Conf. on Information Systems Development, ISD 2005 (Karlstad, Aug. 2005)*, *Karlstad Univ. Studies* 2005:30, pp. 207-218. Karlstad Univ. 2005.
8. **J. Ernits**. Memory arbiter synthesis and verification for a radar memory interface card. *Nordic J. of Computing*, v. 12, n. 2, pp. 68-88, 2005.
9. **E. Fomina**, M. Brik, R. Vasilyev, A. Sudnitsyn. A new approach to state encoding of low power FSM. In *Proc. of 3rd East-West Design and Test Wksh., EWDTW 2005 (Odessa, Sept. 2005)*, pp. 21-26, 2005.
10. **E. Fomina**, A. Sudnitson. Extended finite-state machine decomposition for low power. In *Proc. of 19th Int. Conf. on Systems for Automation of Engineering and Research, SAER 2005 (Varna, Sept. 2005)*, pp. 126-131. 2005.
11. **R. Gordon**, R. Land, M. Min, T. Parve, R. Salo. A virtual system for simultaneous multifrequency measurement of electrical bioimpedance. *Int. J. of Bioelectromagnetism*, v. 7, n. 1, pp. 243-246, 2005. article at journal's website
12. **R. Gordon**, S. Malchenko, I. Rätsep. Modeling the dynamic heart for impedance based cardiac pathology detection. In *Proc. of 3rd European Medical and Biological Engineering Conf., EMBEC '05 (Prague, Nov. 2005)*, v. 11 of *IFMBE Proc. Series*, 4 pp. IFMBE, 2005.
13. **D. Kumlander**. Problems of optimization: an exact algorithm for finding a maximum clique optimized for dense graphs. *Proc. of Estonian Acad. of Sci., Phys., Math.*, v. 54, n. 2, pp. 79-86, 2005.
14. **D. Kumlander**. Providing a correct software design in an environment with some set of restrictions in a communication between product managers and designers. In A. G. Nilsson, R. Gustas, W. Wojtkowski, W. G. Wojtkowski, S. Wrycza, J. Zupan, eds., *Pre-Conf. Proc. of 14th Int. Conf. on Information Systems Development, ISD 2005 (Karlstad, Aug. 2005)*, *Karlstad Univ. Studies* 2005:30, pp. 1-11. Karlstad Univ. 2005.
15. M. Meriste, J. Helekivi, T. Kelder, A. Marandi, L. Mõtus, **J. Preden**. Location awareness of information agents. In J. Eder, H.-M. Haav, A. Kalja, J. Penjam, eds., *Proc. of 9th East European Conf. on Advances in Databases and Information Systems, ADBIS 2005 (Tallinn, Sept. 2005)*, v. 3631 of *Lect. Notes in Comput. Sci.*, pp. 199-208. Springer, 2005. doi: 10.1007/11547686_15
16. **E. Petlenkov**, E. Rüstern. Linear dynamic systems with static actuator nonlinearities identification for control. In *Proc. of ICGST Automatic Control and System Engineering Conference, ACSE 05 (Cairo, Dec. 2005)*, pp. 41-46. ICGST, 2005. article at ICGST website
17. J. Raik, **M. Jenihhin**, R. Adelbert. Sequential circuits BIST synthesis from signal specifications. In *Proc. of 23rd IEEE NORCHIP Conf. (Oulu, Nov. 2005)*, pp. 196-199. 2005. doi: 10.1109/norchp.2005.1597023

18. A. Ronk, **P. Annus**, A. Kuusik, R. Land, O. Märtens. Digital multichannel bioimpedance analyser: signal processing approaches. In *Proc. of 3rd European Medical and Biological Engineering Conf., EMBEC '05 (Prague, Nov. 2005)*, v. 11 of *IFMBE Proc. Series*, 4 pp. IFMBE, 2005.
19. **M. Roost**, R. Kuusik, K. Rava, **T. Veskiöja**. A model of information systems development for learning virtual organizations. In O. Vasilecas, A. Caplinskas, W. Wojtkowski, W. G. Wojtkowski, J. Zupancic, S. Wrycza, eds., *Proc. of 13th Int. Conf. on Information Systems Development, ISD 2004 (Vilnius, Sept. 2004)*, pp. 315-325. Springer, 2005. doi: 10.1007/0-387-28809-0_28
20. **A. Torim**, R. Kuusik. Problem and algorithms for finding the best decision. *WSEAS Trans. on Inform. Sci. and Appl.*, v. 9, n. 2, pp. 1462-1469, 2005.
21. **I. Tšahhirov**, P. Laud. Digital signature in automatic analyses for confidentiality against active adversaries. In H. Lipmaa, D. Gollmann, eds., *Proc. of 10th Nordic Wksh. on Secure IT Systems, NordSec 2005 (Tartu, Oct. 2005)*, pp. 29-41. Univ. of Tartu, 2005.

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23. **S. Devadze**, J. Raik, A. Jutman, R. Ubar. Fault simulation with parallel critical path tracing for combinational circuits using structurally synthesized BDDs. In *Proc. of IEEE Latin American Test Wksh., LATW 2006 (Buenos Aires, March 2006)*, pp. 97-102. IEEE, 2006.
24. **E. Eessaar**. Guidelines about usage of the complex data types in a database. *WSEAS Trans. on Inform. Sci. and Appl.*, v. 3, n. 4, pp. 712-719, 2006.
25. **E. Eessaar**. SQL or Third Manifesto compliant object-relational database management systems as the platforms for maintaining the whole-part relationships in a database. *WSEAS Trans. on Computers*, v. 5, n. 10, pp. 2440-2447, 2006.
26. **E. Eessaar**. Integrated system analysis environment for the continuous consistency and completeness checking. In E. Tyugu and T. Yamaguchi, eds., *Proc. of 7th Joint Conf. on Knowledge-Based Software Engineering, JCKBSE 2006 (Tallinn, Aug. 2006)*, v. 140 of *Frontiers in Artificial Intelligence and Applications*, pp. 96-105. IOS Press, 2006. article at IOS Press BooksOnline
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