

A PC-based CAD system for training digital test

Ubar, Raimund-Johannes; Buldas, Ahto; Paomets, Priidu; Raik, Jaan; **Tulit, Viljar** The Fifth EUROCHIP Workshop on VLSI Design Training, 17-18-19 October 1994, Dresden, Germany 1994 / p. 152-157: ill

A semi-formal method for security estimation

Buldas, Ahto; Priisalu, Jaan Databases and information systems : proceedings of the Second International Baltic Workshop : Tallinn, June 12-14, 1996. Volume 1, Research track 1996 / p. 206-212

A VLSI implementation of RSA and IDEA encryption engine

Buldas, Ahto; Põldre, Jüri Proceedings [of the] 15th NORCHIP Conference, Tallinn, 10-11 November 1997 1997 / p. 281-288: ill

Ajatebeldusel on maailmas tulevikku : [küsimustele vastab noore teadlase preemia pälvinud Ahto Buldas]

Sootak, Varje; **Buldas, Ahto** Universitas Tartuensis 2002 / 20. detsember, lk. 5 : fot

Ajateplid digitaaldokumentidel

Buldas, Ahto; Lipmaa, Helger Arvutimaailm 1998 / 2, lk. 45-47: ill

Ajateplisüsteemid : avalik loeng 30. mail 2001 TTÜs

Buldas, Ahto Tallinna Tehnikaülikooli aastaraamat 2001 2003 / lk. 308-312

Algoritmid ja diagonaalsed tõestused

Buldas, Ahto Arvutustehnika ja Andmetöötlus 1995 / 1, lk. 5-10

Allkirjad elektroonilistel dokumentidel : väärarvutuse tõenduse algoritmidest

Buldas, Ahto A & A 2000 / 6, lk. 36-40

An algebraic approach to the structure of graphs

Buldas, Ahto 1999 http://www.eester.ee/record=b1273064*est

Are the current system engineering practices sufficient to meet cyber crime?

Buldas, Ahto; Saarepera, Märt Human Aspects of Information Security, Privacy and Trust : 5th International Conference, HAS 2017 : held as part of HCI International 2017, Vancouver, BC, Canada, July 9–14, 2017 : proceedings 2017 / p. 451-463
https://doi.org/10.1007/978-3-319-58460-7_31 Conference proceedings at Scopus Article at Scopus Article at WOS

Attribute evaluation on attack trees with incomplete information

Buldas, Ahto; Gadyatskaya, Olga; **Lenin, Aleksandr; Mauw, Sjouke; Trujillo-Rasua, Roland** Computers & Security 2020 / art. 101630, 17 p. : ill <https://doi.org/10.1016/j.cose.2019.101630> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Attribute evaluation on attack trees with incomplete information : a preprint

Buldas, Ahto; Gadyatskaya, Olga; **Lenin, Aleksandr; Mauw, Sjouke; Trujillo-Rasua, Roland** arXiv.org 2019 / 21 p. : ill
<http://arxiv.org/abs/1812.10754>

Black-box separations and their adaptability to the non-uniform model

Buldas, Ahto; Niitsoo, Margus Information security and privacy : 18th Australasian Conference, ACISP 2013, Brisbane, Australia, July 1-3, 2013 : proceedings 2013 / p. 152-167 https://doi.org/10.1007/978-3-642-39059-3_11 Conference Proceedings at Scopus Article at Scopus

Blockchain technology: Intrinsic technological and socio-economic barriers: FDSE'2020 Keynote

Buldas, Ahto; Draheim, Dirk; Nagumo, Takehiko; **Vedešin, Anton** Future Data and Security Engineering. Big Data, Security and Privacy, Smart City and Industry 4.0 Applications : 7th International Conference, FDSE 2020, Quy Nhon, Vietnam, November 25–27, 2020 : proceedings 2020 / p. 3-27 https://doi.org/10.1007/978-3-030-63924-2_1 Conference Proceedings at Scopus Article at Scopus

A blockchain-assisted hash-based signature scheme

Buldas, Ahto; Laanoja, Risto; Truu, Ahto Secure IT Systems : 23rd Nordic Conference, NordSec 2018, Oslo, Norway, November 28–30, 2018 : proceedings 2018 / p. 138–153 : ill https://doi.org/10.1007/978-3-030-03638-6_9 Conference Proceedings at Scopus Article at Scopus Conference Proceedings at WOS Article at WOS

Bounded pre-image awareness and the security of hash-tree keyless signatures

Buldas, Ahto; Laanoja, Risto; Laud, Peeter; Truu, Ahto Provable security : 8th International Conference, ProvSec 2014, Hong Kong, China, October 9-10, 2014 : proceedings 2014 / p. 130-145 : ill https://doi.org/10.1007/978-3-319-12475-9_10 Conference proceeding at Scopus Article at Scopus Conference proceeding at WOS Article at WOS

Comparability graphs and the structure of finite graphs

Buldas, Ahto Proceedings of the Estonian Academy of Sciences. Physics. Mathematics 1996 / 2/3, p. 117-127

Congruence lattice of a graph

Buldas, Ahto Proceedings of the Estonian Academy of Sciences. Physics. Mathematics 1997 / 3, p. 155-170: ill

Does secure time-stamping imply collision-free hash functions

Buldas, Ahto; Jürgenson, Aivo Info- ja kommunikatsioonitehnoloogia doktorikooli IKTDK kolmanda aastakonverentsi artiklite kogumik : 25.-26. aprill 2008, Voore külalistemaja 2008 / p. 59-63 : ill

Does secure time-stamping imply collision-free hash functions?

Buldas, Ahto; Jürgenson, Aivo Lecture notes in computer science 2007 / p. 138-150

Eesti Vabariigi 2018. aasta teaduspreemia laureaadid TTÜst

Vähi, Kersti; Buldas, Ahto; Kotta, Ülle; Kurnitski, Jarek; Raudla, Ringa Mente et Manu 2018 / lk. 26-27 : portr

<https://www.ttu.ee/ttu-uudised/ajaleht-mente-et-manu/mente-et-manu/> http://www.ester.ee/record=b1242496*est

https://artiklid.elnet.ee/record=b2836028*est

Eestis arendatud plokiahel soovib saada maailmaturu liidriks

Rumm, Hannes Eesti Ekspress 2023 / lk. 30-33 <https://dea.digar.ee/article/eestiekspress/2023/05/10/13.6>

Efficiency bounds for adversary constructions in black-box reductions

Buldas, Ahto; Jürgenson, Aivo; Niitsoo, Margus Information Security and Privacy : 14th Australasian Conference : ACISP 2009 : Brisbane, Australia, July 1-3, 2009 : proceedings 2009 / p. 264-275 https://link.springer.com/chapter/10.1007/978-3-642-02620-1_19

Efficient long-term validation of digital signatures

Ansper, A.; **Buldas, Ahto**; Roos, Meelis; Willemson, Jan Public Key Cryptography : 4th International Workshop on Practice and Theory in Public Key Cryptosystems : PKC 2001 : Cheju Island, Korea, February 13-15, 2001 : proceedings 2001 / p. 13-15

Efficient semantics of parallel and serial models of attack trees = Ründepuude paralleel- ja jadamudelite efektiivsed semantikad

Jürgenson, Aivo 2010 https://www.ester.ee/record=b2604924*est

Electronic signature system with small number of private keys

Buldas, Ahto; Saarepera, Märt 2nd Annual PKI Research Workshop Pre-Proceedings : Gaithersburg, Maryland, USA, April 28-29, 2003 2003 / p. 96-108 https://www.researchgate.net/publication/2869630_Electronic_Signature_System_with_Small_Number_of_Private_Keys

Elektrondokumendid tõendusmaterjalina

Buldas, Ahto Arvutimaailm 1997 / 8, lk. 23-25: ill

Eliminating counterevidence with applications to accountable certificate management

Buldas, Ahto; Laud, Peeter; Lipmaa, Helger Journal of computer security 2002 / 3, p. 273-296 <https://content.iospress.com/articles/journal-of-computer-security/jcs161>

Goodsteini teoreemist

Buldas, Ahto Arvutustehnika ja Andmetöötlus 1995 / 4, lk. 2-6

Graafid

Buldas, Ahto; Laud, Peeter; Villemson, Jan 2003 https://www.ester.ee/record=b1804744*est

Graafid

Buldas, Ahto; Laud, Peeter; Villemson, Jan 2008 https://www.ester.ee/record=b2345899*est

Graafid ja järjestused

Buldas, Ahto Arvutustehnika ja Andmetöötlus 1995 / 2, lk. 2-8: ill

Graphs and lattice varieties

Buldas, Ahto Proceedings of the Estonian Academy of Sciences. Physics. Mathematics 1998 / 2, p. 100-109

Hash-based server-assisted digital signature solutions = Räsifunktsioonidel põhinevad serveri toega digitaalse signeerimise lahendused

Truu, Ahto 2020 <https://digikogu.taltech.ee/et/Item/a972cc4b-53ec-4c82-8de0-b3e941cce345>

Improving the availability of time-stamping services

Ansper, A.; **Buldas, Ahto**; Saarepera, Märt; Willemson, Jan Information Security and Privacy : 6th Australian Conference : ACISP 2001 : Sydney, Australia, July 11-13, 2001 : proceedings 2001 / p. 360-375 https://link.springer.com/chapter/10.1007/3-540-47719-5_29

Infosüsteemide turve

Hanson, Vello; **Buldas, Ahto** 1997 https://www.ester.ee/record=b1059903*est

Infosüsteemide turve

Hanson, Vello; **Buldas, Ahto**; **Praust, Valdo** 1998 https://www.ester.ee/record=b1191671*est

Keyless signature infrastructure and PKI : hash-tree signatures in pre- and post-quantum world

Buldas, Ahto; **Laanoja, Risto**; **Truu, Ahto** International journal of services technology and management 2017 / p. 117-130 : ill <https://doi.org/10.1504/IJSTM.2017.10002708> [Journal metrics at Scopus](#) [Article at Scopus](#)

Keyless signatures' infrastructure: How to build global distributed hash-trees

Buldas, Ahto; Kroonmaa, Andres; **Laanoja, Risto** Secure IT Systems : 18th Nordic Conference, NordSec 2013, Ilulissat, Greenland, October 18-21, 2013, Proceedings 2013 / p. 313 - 320 https://doi.org/10.1007/978-3-642-41488-6_21 [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Knowledge-binding commitments with applications in time-stamping

Buldas, Ahto; Laur, Sven Lecture notes in computer science 2007 / p. 150-165 <https://eprint.iacr.org/2007/071>

Krüptoloogia. Miks ja kuidas?

Buldas, Ahto Arvutimaailm 1994 / 3, lk. 14-15

Limiting adversarial budget in quantitative security assessment

Lenin, Aleksandr; **Buldas, Ahto** Decision and Game Theory for Security : 5th International Conference, GameSec 2014, Los Angeles, CA, USA, November 6-7, 2014 : proceedings 2014 / p. 155-174 : ill https://doi.org/10.1007/978-3-319-12601-2_9 [Conference proceedings at Scopus](#) [Article at Scopus](#) [Conference proceedings at WOS](#) [Article at WOS](#)

Long term archiving of electronic signatures

Buldas, Ahto; Freudenthal, Margus Baltic ITAMPT review 2004 / 1, p. 69-74 : ill

Long-term secure commitments via extractable-binding commitments

Buldas, Ahto; Geihs, Matthias; Buchmann, Johannes Information Security and Privacy : 22nd Australasian Conference, ACISP 2017, Auckland, New Zealand, July 3-5, 2017 : Proceedings, Part I 2017 / p. 65-81 https://doi.org/10.1007/978-3-319-60055-0_4 [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Long-term secure time-stamping using preimage-aware hash functions : (short version)

Buldas, Ahto; Geihs, Matthias; Buchmann, Johannes Provable Security : 11th International Conference, ProvSec 2017, Xi'an, China, October 23-25, 2017 : proceedings 2017 / p. 251-260 : ill http://doi.org/10.1007/978-3-319-68637-0_15 [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Loogikaskeemid ja binaardiagrammid

Buldas, Ahto Aastaraamat 1994 - 1996 / Eesti Matemaatika Selts 1999 / lk. 6-11

Mikroarvuti plastkaardis

Buldas, Ahto; Laksper, Enn; Priisalu, Jaan Arvutimaailm 1994 / 4, lk. 52-55; 5, lk. 28-31; 6, lk. 42-43; 7, lk. 51-53 https://artiklid.elnet.ee/record=b2019361*est

Mis on p-aadilised arvud?

Buldas, Ahto Arvutustehnika ja Andmetöötlus 1995 / 9, lk. 2-8

A New approach to constructing digital signature schemes

Buldas, Ahto; **Frisov, Denis**; **Laanoja, Risto**; Lakk, Henri; **Truu, Ahto** Advances in Information and Computer Security : 14th International Workshop on Security, IWSEC 2019, Tokyo, Japan, August 28-30, 2019 : proceedings 2019 / p. 363-373 https://doi.org/10.1007/978-3-030-26834-3_21 [Conference proceeding at Scopus](#) [Article at Scopus](#) [Conference proceeding at WOS](#) [Article at WOS](#)

New efficient utility upper bounds for the fully adaptive model of attack trees

Buldas, Ahto; **Lenin, Aleksandr** Decision and game theory for security : 4th International Conference, GameSec 2013, Fort Worth, TX, USA, November 11-12, 2013 : proceedings 2013 / p. 192-205 : ill https://doi.org/10.1007/978-3-319-02786-9_12 [Computer Proceedings metrics at Scopus](#) [Article at Scopus](#)

New linking schemes for digital time-stamping

Buldas, Ahto; Laud, Peeter Proceedings of the CISC'98, Seoul, Korea 1998 / p. 112-123 <https://citeseerx.ist.psu.edu/document?repid=rep1&type=pdf&doi=d3a005fb546ff78abc6ee453af4ee91aa6267c50>

On provably secure time-stamping schemes

Buldas, Ahto; Saarepera, Märt Advances in cryptology - ASIACRYPT 2004 : 10th International Conference on the Theory and

Application of Cryptology and Information Security : Jeju Island, Korea, December 5-9, 2004 : proceedings 2004 / p. 500-514 : ill https://link.springer.com/chapter/10.1007/978-3-540-30539-2_35

Oracle separation in the non-uniform model

Buldas, Ahto; Laur, Sven; Niitsoo, Margus Provable Security : Third International Conference : ProvSec 2009 : Guangzhou, China, November 11-13, 2009 : proceedings 2009 / p. 230-244 https://link.springer.com/content/pdf/10.1007/978-3-642-04642-1_19.pdf

Practical security analysis of e-voting systems

Buldas, Ahto; Mägi, Triinu Lecture notes in computer science 2007 / p. 320-335

Preemia olulise sotsiaal-majandusliku mõjuga innovaatilise tooteni viinud teaduslikul avastusel põhineva teadus- ja arendustöö eest : Ahto Buldas. Minu teadus : usaldus, saladused, aeg ja plokiahelad

Buldas, Ahto Eesti Vabariigi preemiad 2018 : teadus. F. J. Wiedemanni keeleauhind. Kultuur. Sport 2018 / lk. 64-75 : portr

Rational choice of security measures via multi-parameter attack trees

Buldas, Ahto; Laud, Peeter; Priisalu, Jaan; Saarepera, Märt; Willemson, Jan 1st International Workshop on Critical Information Infrastructures Security : Samos Island, Greece, August 30 - September 2, 2006 2006 / p. 232-243 https://link.springer.com/chapter/10.1007/11962977_19

Reliable and efficient determination of the likelihood of rational attacks = Ratsionaalsete rünnete tõepära efektiivne ja usaldusväärne kindlakstegemine

Lenin, Aleksandr 2015 https://www.ester.ee/record=b4530005*est

Secure and efficient implementation of electronic money

Buldas, Ahto; Draheim, Dirk; Saarepera, Märt Future Data and Security Engineering : Big Data, Security and Privacy, Smart City and Industry 4.0 Applications : 9th International Conference, FDSE 2022, Ho Chi Minh City, Vietnam, November 23-25, 2022 : proceedings 2022 / p. 34-51 https://doi.org/10.1007/978-981-19-8069-5_3 [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Security proofs for hash tree time-stamping using hash functions with small output size

Buldas, Ahto; Laanoja, Risto Information security and privacy : 18th Australasian Conference, ACISP 2013, Brisbane, Australia, July 1-3, 2013 : proceedings 2013 / p. 235-250 : ill https://doi.org/10.1007/978-3-642-39059-3_16 [Conference Proceedings at Scopus](#) [Article at Scopus](#)

A server-assisted hash-based signature scheme

Buldas, Ahto; Laanoja, Risto; Truu, Ahto Secure IT Systems : 22nd Nordic Conference, NordSec 2017, Tartu, Estonia, November 8-10, 2017 : proceedings 2017 / p. 3-17 : ill https://doi.org/10.1007/978-3-319-70290-2_1 [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Server-supported RSA signatures for mobile devices

Buldas, Ahto; Kalu, Aivo; Laud, Peeter; Oruaas, Mart Computer Security - ESORICS 2017 : 22nd European Symposium on Research in Computer Security, Oslo, Norway, September 11-15, 2017 : proceedings, part I 2017 / p. 315-333 : ill https://doi.org/10.1007/978-3-319-66402-6_19 [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Simple infeasibility certificates for attack trees

Buldas, Ahto; Lenin, Aleksandr; Willemson, Jan; Charnamord, Anton Advances in Information and Computer Security : 12th International Workshop on Security, IWSEC 2017, Hiroshima, Japan, August 30 - September 1, 2017 : proceedings 2017 / p. 39-55 : ill https://doi.org/10.1007/978-3-319-64200-0_3 [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Sissejuhatus matroidide teooriasse

Buldas, Ahto Arvutustehnika ja Andmetöötlus 1995 / 3, lk. 2-5: ill

A systematic approach to offensive volunteer cyber militia

Ottis, Rain 2011 http://www.ester.ee/record=b2685353*est

Teadusest, ärist ja impeeriumi pärandusest

Buldas, Ahto A & A 2001 / 4, lk. 5-8 https://www.ester.ee/record=b1071898*est

A theory of secure and efficient implementation of electronic money

Buldas, Ahto; Draheim, Dirk; Saarepera, Märt SN Computer Science 2023 / art. 861, 25 p. : ill <https://doi.org/10.1007/s42979-023-02232-y> [Journal metrics at Scopus](#) [Article at Scopus](#)

Time-stamping with binary linking schemes

Buldas, Ahto; Laud, Peeter; Lipmaa, Helger; Willemson, Jan Advances in Cryptology : CRYPTO'98 : 18th Annual International Cryptology Conference, Santa Barbara, California, USA August 23-27, 1998 : proceedings 1998 / p. 486-501 : ill

Towards a foundation of Web3

Buldas, Ahto; Draheim, Dirk; Gault, Mike; Saarepera, Märt Future Data and Security Engineering : Big Data, Security and Privacy, Smart City and Industry 4.0 Applications : 9th International Conference, FDSE 2022, Ho Chi Minh City, Vietnam, November 23-25, 2022 : proceedings 2022 / p. 3-18 https://doi.org/10.1007/978-981-19-8069-5_1 [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

TURBO TESTER : a set of software tools for CAD of test for digital circuits

Ubar, Raimund-Johannes; Tulit, Viljar; Buldas, Ahto; Saarepera, Märt Fourth EUROCHIP Workshop on VLSI Design Training, 29 September to 1 October 1993, [Toledo] 1993 / p. 396

An ultra-scalable blockchain platform for universal asset tokenization : design and implementation

Buldas, Ahto; Draheim, Dirk; Gault, Mike; Laanoja, Risto; Nagumo, Takehiko; Saarepera, Märt; Shah, Syed Attique; Simm, Joosep; Steiner, Jamie; **Tammet, Tanel;** Truu, Ahto IEEE Access 2022 / p. 77284-77322 : ill <https://doi.org/10.1109/ACCESS.2022.3192837> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Undeniable replies for database queries

Buldas, Ahto; Roos, Meelis; Willemson, Jan Databases and information systems : proceedings of the Fifth International Baltic Conference : Baltic DB & IS 2002 : Tallinn, June 3-6, 2002. Vol. 2 2002 / p. 215-226 : ill

Undeniable replies for database queries

Buldas, Ahto; Roos, Meelis; Willemson, Jan Databases and information systems. II, Fifth International Baltic Conference : Baltic DB & IS'2002 : Tallinn, Estonia, June 3-6, 2002 : selected papers 2002 / p. 43-54 : ill

A unifying theory of electronic money and payment systems

Buldas, Ahto; Saarepera, Märt; Steiner, Jamie; **Draheim, Dirk** techrxiv.org 2021 <https://doi.org/10.36227/techrxiv.14994558.v2>

Universally composable time-stamping schemes with audit

Buldas, Ahto; Laud, Peeter; Saarepera, Märt; Villemson, Jan Lecture notes in computer science 2005 / p. 359-373 https://link.springer.com/chapter/10.1007/11556992_26

Vastab Eesti parim noor teadlane anno 2002 [Ahto Buldas]

Buldas, Ahto; Ummelas, Mart Mente et Manu 2002 / 19. nov., lk. 1, 2 https://www.ester.ee/record=b1242496*est

Verified security of BLT signature scheme

Firsov, Denis; Buldas, Ahto; Truu, Ahto; Laanoja, Risto CPP 2020 - Proceedings of the 9th ACM SIGPLAN International Conference on Certified Programs and Proofs, co-located with POPL 2020, New Orleans 20 January 2020 through 21 January 2020 2020 / p. 244-257 <https://doi.org/10.1145/3372885.3373828>

Ühispanka tõhus toetus ülikoolisportidele : [31. okt. sõlmisid TTÜ ja Eesti Ühispank ülikoolisporti toetava sponsorlepingu : leping allkirjastati digitaallkirjaga : kommenteerivad Gunnar Valge ja Ahto Buldas]

Valge, Gunnar; Buldas, Ahto Mente et Manu 2002 / 5. nov., lk. 1 : ill https://www.ester.ee/record=b1242496*est

Ühissalastuse skeemid

Buldas, Ahto; Leibak, Alar Arvutimaailm 1997 / 2, lk. 30-31