

Addressing scalability issues in semantics-driven recommender systems

Bendouch, Mounir M.; Frasinca, Flavius; **Robal, Tarmo** WI-IAT '21: IEEE/WIC/ACM International Conference on Web Intelligence 2021 / p. 56-63 <https://doi.org/10.1145/3486622.3493963> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Administration of the state information system of the Estonian eGovernment [Electronic resource]

Kalja, Ahto; Robal, Tarmo; Gailan, Triin PICMET '17 : Portland International Conference on Management of Engineering and Technology : Technology Management for the Interconnected World : proceedings 2017 / p. 1-7 : ill. [USB] <https://doi.org/10.23919/PICMET.2017.8125312>

An ontology-based intelligent learning object for teaching the basics of digital logic

Robal, Tarmo; Kann, Taavi; Kalja, Ahto 2011 IEEE International Conference on Microelectronic Systems Education (MSE) : 5-6 June 2011, San Diego, CA, USA 2011 / p. 106-107

Analysing the web log to determine the efficiency of web systems

Robal, Tarmo; Kalja, Ahto; Põld, Janari Databases and information systems : Seventh International Baltic Conference on Databases and Information Systems. Communications : Vilnius, Lithuania, July 3-6, 2006 2006 / p. 264-275

Applying e-environments in teaching the basics of digital logic

Robal, Tarmo; Kalja, Ahto Proceedings MSE 2007 : 2007 IEEE International Conference on Microelectronic Systems Education : 3-4 June 2007, San Diego, CA 2007 / p. 41-42 : ill <https://ieeexplore.ieee.org/document/4231440/keywords#keywords>

Applying ICT for improving the study process [Electronic resource]

Robal, Tarmo; Kalja, Ahto Proceedings of the 18th EAEEIE Annual Conference : Praha, Czech Republic, 02-04.07.2007 2007 / ? p. [CD-ROM]

Applying user domain model to improve Web recommendations

Robal, Tarmo; Kalja, Ahto Databases and information systems : tenth international Baltic conference on databases and information systems : local proceedings, materials of doctoral consortium : Vilnius, Lithuania, July 8-11, 2012 2012 / p. 182 <https://ebooks.iospress.nl/volumearticle/7673>

Applying user domain model to improve Web recommendations

Robal, Tarmo; Kalja, Ahto Databases and information systems VII : selected papers from the tenth International Baltic Conference, DB&IS 2012 2013 / p. 118-131 <https://doi.org/10.3233/978-1-61499-161-8-118> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Applying user profile ontology for mining web site adaptation recommendations

Robal, Tarmo Info- ja kommunikatsioonitehnoloogia doktorikooli IKTDK teise aastakonverentsi artiklite kogumik : 11.-12. mai 2007, Viinistu kunstimuseum 2007 / lk. 125-128 : ill

Applying user profile ontology for mining web site adaption recommendations

Robal, Tarmo; Kalja, Ahto Local Proceedings of the 11th East-European Conference on Advances in Databases and Information Systems (ADBIS 2007) 2007 / p. 126-135 https://www.researchgate.net/publication/221651686_Applying_User_Profile_Ontology_for_Mining_Web_Site_Adaptation_Recommendations

Attendance check of students via robot assistant in higher education classes

Budagov, Fuad; Leoste, Janika; Meeran, Mohammad Tariq; Robal, Tarmo; Leoste, Leo Benjamin Futureproofing Engineering Education for Global Responsibility : Proceedings of the 27th International Conference on Interactive Collaborative Learning (ICL 2024) ; vol. 1 2025 / p. 305-316 https://doi.org/10.1007/978-3-031-85652-5_31

Automatic implementation-time usability evaluation for web user interfaces = Veebi kasutajaliidese kasutatavuse automaatne hindamine realiseerimisfaasis

Marenkov, Jevgeni 2019 https://www.ester.ee/record=b5231048*est

Baltic DB&IS 2020 Conference Forum and Doctoral Consortium co-located with the 14th International Baltic Conference on Databases and Information Systems (BalticDB&IS 2020) Tallinn, Estonia, June 16-19, 2020 : proceedings 2020 <http://ceur-ws.org/Vol-2620/xpreface.pdf> <http://ceur-ws.org/Vol-2620/>

Baltic Journal of Modern Computing

Selected Papers from the 14th International Baltic Conference on Databases and Information Systems

2020 https://www.bjmc.lu.lv/fileadmin/user_upload/lu_portal/projekti/bjmc/Contents/8_4_07a_DB_IS.pdf

Baltic-DB&IS-Forum-DC 2024 and Baltic DB&IS Conference Forum and Doctoral Consortium 2024 : Joint Proceedings of Baltic DB&IS Conference Forum and Doctoral Consortium 2024 co-located with 16th International Baltic Conference on Digital Business and Intelligent Systems (Baltic DB&IS 2024), Vilnius, Lithuania, June 30-July 3, 2024

2024 <https://ceur-ws.org/Vol-3698/>

Bing-CF-IDF+ : a semantics-driven news recommender system

Brocken, Emma; Hartveld, Aron; Koning, Emma de; Hogenboom, Frederik; Frasinca, Flavius; **Robal, Tarmo** Advanced Information Systems Engineering 31st International Conference, CAiSE 2019, Rome, Italy, June 3–7, 2019, Proceedings 2019 / p. 32-47
https://doi.org/10.1007/978-3-030-21290-2_3 [Conference proceeding at Scopus](#) [Article at Scopus](#) [Conference proceeding at WOS](#) [Article at WOS](#)

Bing-CSF-IDF+: a semantics-driven recommender system for news

Huijsduijnen, Lies Hooft van; Hoogmoed, Thom; Keulers, Geertje; Langendoen, Edmar; Langendoen, Sanne; Vos, Tim; Hogenboom, Frederik; Frasinca, Flavius; **Robal, Tarmo** New trends in databases and information systems : ADBIS 2020 short papers, Lyon, France, August 25–27, 2020 : proceedings 2020 / p. 143–153 https://doi.org/10.1007/978-3-030-54623-6_13 [Conference proceeding at Scopus](#) [Article at Scopus](#)

BIR-WS 2025 : BIR 2025 Workshops and Doctoral Consortium : Joint Proceedings of the BIR 2025 Workshops and Doctoral Consortium co-located with 24th International Conference on Perspectives in Business Informatics Research, Riga, Latvia, September 17-19, 2025

2025 <https://ceur-ws.org/Vol-4034>

Can I have a Mooc2Go, please? On the viability of mobile vs. stationary learning

Zhao, Yue; **Robal, Tarmo**; Lofi, Christoph; Hauff, Claudia Lifelong Technology-Enhanced Learning : 13th European Conference on Technology Enhanced Learning : EC-TEL 2018, Leeds, UK, September 3-5, 2018 : proceedings 2018 / p. 101-115 : ill
https://doi.org/10.1007/978-3-319-98572-5_8 [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Conference Proceedings at WOS](#) [Article at WOS](#)

Comparing domain expert and machine learning data enrichment of building registry

Torim, Ants; Iliste, Elisa; Pikas, Ergo; Liiv, Innar; **Robal, Tarmo**; Kalamees, Targo Buildings 2025 / art. 1798
<https://doi.org/10.3390/buildings15111798>

Complementing ICT studies with learning objects on domain ontologies

Robal, Tarmo; Kruus, Helena; Kalja, Ahto Proceedings of the 24th International Conference on European Association for Education in Electrical and Information Engineering : 30-31 May 2013, Chania, Greece 2013 / p. 92-96 : ill

Complex systems informatics and modeling quarterly

2023 <https://csimq-journals.rtu.lv/issue/view/299>

Conceptual web users' actions prediction for ontology-based browsing recommendations

Robal, Tarmo; Kalja, Ahto Information systems development : towards a service provision society 2009 / p. 121-129
https://link.springer.com/chapter/10.1007/b137171_13

Creating interactive learning objects with web services

Robal, Tarmo; Kalja, Ahto 2009 EAEEIE annual conference : 20th Annual Conference of the European Association for Education in Electrical and Information Engineering : Valencia, Spain, June 22-24, 2009 2009 / [6] p

Databases and Information Systems : 14th International Baltic Conference, DB&IS 2020, Tallinn, Estonia, June 16-19, 2020 : Proceedings

2020 <https://doi.org/10.1007/978-3-030-57672-1>

Databases and Information Systems : proceedings of the 11th International Baltic Conference, Baltic DB&IS 2014 : Tallinn, Estonia, 8-11 June, 2014

2014 http://www.ester.ee/record=b3088507*est

Databases and information systems VIII : selected papers from the Eleventh International Baltic Conference, DB&IS 2014

2014 https://www.ester.ee/record=b4447206*est

Design-time web usability evaluation with guideliner

Makarencov, Jevgeni; **Robal, Tarmo**; Kalja, Ahto Complex Systems Informatics and Modeling Quarterly (CSIMQ) 2018 / art. 90, p. 90–109 : ill <https://doi.org/10.7250/csimq.2018-15.05>

e-Bibliotheca - a virtual library service

Robal, Tarmo; Kruus, Helena Proceedings of the Thirteenth International Conference on Information Systems Development : Advances in Theory, Practice and Education : Vilnius, Lithuania 2004 / p. 139-148

Editorial message : Special track on Intelligent Systems for Digital Era (ISDE)

Robal, Tarmo; Liiv, Innar; Kalibatiene, Diana SAC '23: Proceedings of the 38th ACM/SIGAPP Symposium on Applied Computing 2023 / p. 824-825 <https://doi.org/10.1145/3555776>

e-EDU - an information system for e-learning services

Robal, Tarmo; Kalja, Ahto Proceedings of the Sixth International Baltic Conference : BalticDBAMPIS 2004 : Riga, June 3-6, 2004. Vol. 2 2004 / p. 143-154

e-EDU - an information system for e-learning services

Robal, Tarmo; Kalja, Ahto Databases and information systems 2005 / p. 288-298

eGovernment services : How to develop them, how to manage them?

Kalja, Ahto; Kindel, Kristiina; Kivi, Riina; **Robal, Tarmo** Proceedings of PICMET'07 : Management of Converging Technologies : Portland, OR, USA, 5-9. August 2007 2007 / p. 2795-2798 <https://ieeexplore.ieee.org/document/4349620>

E-learning of digital logic

Robal, Tarmo; Brik, Marina; Aarna, Margit EWME 2006 proceedings : 6th International Workshop on Microelectronics Education : 8-9 June, 2006, Stockholm, Sweden 2006 / p. 120-123 : ill

Elevator passenger in-cabin behaviour – a study on Smart-Elevator Platform

Basov, Kevin; Robal, Tarmo; Reinsalu, Uljana; Leier, Mairo Digital Business and Intelligent Systems : 15th International Baltic Conference, Baltic DB&IS 2022, Riga, Latvia, July 4-6, 2022 : proceedings 2022 / p. 3-18 : ill https://doi.org/10.1007/978-3-031-09850-5_1 [Conference proceedings at Scopus](#) [Article at Scopus](#)

Enhancing semantics-driven recommender systems with visual features

Bendouch, Mounir M.; Frasinca, Flavius; **Robal, Tarmo** Advanced Information Systems Engineering 34th International Conference, CAiSE 2022, Leuven, Belgium, June 6-10, 2022, Proceedings 2022 / p. 443–459 https://doi.org/10.1007/978-3-031-07472-1_26 [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Conference Proceedings at WOS](#) [Article at WOS](#)

Enhancing the aspect robustness score of the HAABSA++ model using adversarial training

Agha, Milad; Frasinca, Flavius; Zhu, Beilly; **Robal, Tarmo** Web Engineering : 25th International Conference, ICWE 2025, Delft, The Netherlands, June 30 – July 3, 2025 : Proceedings 2026 / p. 89-103 https://doi.org/10.1007/978-3-031-97207-2_7 https://link.springer.com/chapter/10.1007/978-3-031-97207-2_7

Estonian eGovernment services : lesson learned

Kalja, Ahto; Põld, Janari; Robal, Tarmo; Vallner, Uuno; **Viies, Vladimir** Proceedings of PICMET'13 : Technology Management in the IT-Driven Services : [July 28-August 1, 2013, San Jose, California, USA] 2013 / p. 562-568 : ill

Evaluating Web systems on the basis of users' behavior modeling

Robal, Tarmo; Kalja, Ahto Info- ja kommunikatsioonitehnoloogia doktorikooli IKTDK kolmanda aastakonverentsi artiklite kogumik : 25.-26. aprill 2008, Voore külalistemaja 2008 / p. 64-67 : ill

Evaluations for improving web systems on the basis of users behaviour modelling

Robal, Tarmo; Kalja, Ahto Databases and information systems : proceedings of the Eighth International Baltic Conference, Baltic DBAMPIS 2008 : Tallinn, June 2-5, 2008 2008 / p. 229-240 : ill

Expectations of software development practitioners for non-technical clients

Ojastu, Deniss; Robal, Tarmo; Kalja, Ahto Databases and information systems VIII : selected papers from the Eleventh International Baltic Conference, DB&IS 2014 2014 / p. 317-330 : ill <https://doi.org/10.3233/978-1-61499-458-9-317> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

An experimental study on re-ranking web shop search results using semantic segmentation of user profiles

Poppink, Bram; Frasinca, Flavius; **Robal, Tarmo** Electronic commerce research and applications 2023 / art. 101310 <https://doi.org/10.1016/j.elerap.2023.101310> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Fair and individualized project teamwork evaluation for an engineering course

Robal, Tarmo EAEEIE 2018 : 28th EAEEIE Annual Conference (EAEEIE), September 26th to 28th, 2018 2018 / 9 p. : ill <http://doi.org/10.1109/EAEEIE.2018.8534256>

A five step refactoring process : improving software design properly

Põld, Janari; Kalja, Ahto; Robal, Tarmo Info- ja kommunikatsioonitehnoloogia doktorikooli IKTDK kolmanda aastakonverentsi artiklite kogumik : 25.-26. aprill 2008, Voore külalistemaja 2008 / p. 93-96 : ill

A five step refactoring process : improving software design properly

Põld, Janari; Kalja, Ahto; Robal, Tarmo Databases and information systems : proceedings of the Eighth International Baltic Conference, Baltic DBAMPIS 2008 : Tallinn, June 2-5, 2008 2008 / p. 37-48 : ill

Floor selection proposal for automated travel with smart elevator

Reinsalu, Uljana; Robal, Tarmo; Leier, Mairo Databases and Information Systems : 14th International Baltic Conference, DB&IS 2020, Tallinn, Estonia, June 16-19, 2020 : Proceedings 2020 https://doi.org/10.1007/978-3-030-57672-1_4 [Conference proceeding at](#)

A framework for improving web application user interfaces through immediate evaluation

Marenkov, Jevgeni; Robal, Tarmo; Kalja, Ahto Databases and information systems IX : selected papers from the twelfth International Baltic Conference, DB&IS 2016 2016 / p. 283-296 : ill <https://doi.org/10.3233/978-1-61499-714-6-283> [Article collection metrics at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Guideliner : a tool to improve Web UI development for better usability

Marenkov, Jevgeni; Robal, Tarmo; Kalja, Ahto WIMS 2018 : 8th International Conference on Web Intelligence, Mining and Semantics, June 25–27 2018, Novi Sad, Serbia : proceedings 2018 / art. 17, 9 p. : ill <https://doi.org/10.1145/3227609.3227667> [Conference proceedings at Scopus](#) [Article at Scopus](#)

How do You ride an elevator? Passenger in-cabin behavior analysis on a smart-elevator platform

Robal, Tarmo; Reinsalu, Uljana Smart Life and Smart Life Engineering : Current State and Future Vision 2025 / p. 209 - 236 https://doi.org/10.1007/978-3-031-75887-4_10

Improving sophisticated self-service portal user interfaces : a study on user click behaviour

Marenkov, Jevgeni; Robal, Tarmo; Kalja, Ahto Databases and Information Systems : proceedings of the 11th International Baltic Conference, Baltic DB&IS 2014 : Tallinn, Estonia, 8-11 June, 2014 2014 / p. 159-170 : ill

In memoriam : Prof. Ahto Kalja : 24.05.1950 - 22.10.2018

Bubenko, Janis; Solvberg, Arne; Amicans, Guntis; Borzovs, Juris; Čaplinskis, Albertas; Grundspenķis, Janis; **Haav, Hele-Mai**; Kirikova, Marite; Lupeikiene, Audrone; Matulevičius, Raimundas; **Robal, Tarmo**; Vasilecas, Olegas; Lupeikiene, Audrone Databases and information systems X : selected papers from the thirteenth International Baltic Conference, DB&IS 2018 2019 / p. v–vi : phot https://www.eester.ee/record=b5203991*est <http://ebooks.iospress.nl/volume/databases-and-information-systems-x-selected-papers-from-the-thirteenth-international-baltic-conference-dbis-2018>

Integration of Artificial Intelligence in higher education programming courses : insights from student perspectives and practices

Leoste, Janika; Pöial, Jaanus; Kivisalu, Einar; Robal, Tarmo; Marjanovic, Ugljesa; Rakić, Slavko Futureproofing Engineering Education for Global Responsibility : Proceedings of the 27th International Conference on Interactive Collaborative Learning (ICL 2024) ; vol. 1 2024 / p. 1067-1077 https://doi.org/10.1007/978-3-031-85652-5_42

IntelliEye: enhancing MOOC learners' video watching experience through real-time attention tracking

Robal, Tarmo; Zhao, Yue; Lofi, Christoph; Hauff, Claudia HT '18 : 29th ACM Conference on Hypertext & SocialMedia, July 9–12, 2018, Baltimore, MD, USA : proceedings of the 29th on Hypertext and Social Media 2018 / p. 106-114 : ill <https://doi.org/10.1145/3209542.3209547>

Interactive hands-on tools as learning objects on web services

Robal, Tarmo; Kalja, Ahto 2009 International Conference on Microelectronic Systems Education : San Francisco, CA, USA, 25-27 July, 2009 2009 / p. 73-76

Introducing rapid web application development with Oracle APEX to students of higher education

Robal, Tarmo; Reinsalu, Uljana; Jürimägi, Lembit; Heinsar, Risto New trends in computer sciences 2024 / p. 69-80 <https://doi.org/10.3846/ntcs.2024.21227>

Investigating defects in digital circuits by Boolean differential equations

Kruus, Helena; Orasson, Elmet; Robal, Tarmo; Ubar, Raimund-Johannes The 4th International Conference "Distance Learning - Educational Sphere of XXI Century" (DLESC'04) 2004 / p. 432-435

Involving students in teaching process — encouraging student-generated content in ICT studies

Kruus, Helena; Ellervee, Peeter; Robal, Tarmo; Ruberg, Priit; Kruus, Margus Proceedings of the 24th International Conference on European Association for Education in Electrical and Information Engineering : 30-31 May 2013, Chania, Greece 2013 / p. 76-81 : ill

Joint Proceedings of Baltic DB&IS 2022 Doctoral Consortium and Forum co-located with 15th International Baltic Conference on Digital Business and Intelligent Systems (Baltic DB&IS 2022)

2022 <https://ceur-ws.org/Vol-3158/>

Kergprogrammeerimine on jõukohane kõigile

Robal, Tarmo Trialoog 2024 <https://trialoog.taltech.ee/kergprogrammeerimine-on-joukohane-koigile/>

Learning from users for a better and personalized web experience

Robal, Tarmo; Kalja, Ahto 2012 Proceedings of PICMET '12 : Technology Management for Emerging Technologies 2012 / p. 2179-2188 : ill

Learning from users for personalized web experience

Robal, Tarmo Info- ja kommunikatsioonitehnoloogia doktorikooli IKTDK viienda aastakonverentsi artiklite kogumik : 25.-26. novembril 2011, Nelijärve 2011 / p. 169-172 : ill

Making use of personalized web services in the study process

Robal, Tarmo; Kalja, Ahto 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. 211-212 : ill

Making web users' domain models explicit by applying ontologies

Robal, Tarmo; Haav, Hele-Mai; Kalja, Ahto Advances in Conceptual Modeling - Foundations and Applications : ER 2007 Workshops CMLSA, FP-UML, ONISW, QoIS, RIGIM, SeCoGIS : Auckland, New Zealand, November 5-9, 2007 : proceedings 2007 / p. 170-179 https://link.springer.com/content/pdf/10.1007/978-3-540-76292-8_20.pdf

Managing knowledge in Web portals for improved customer loyalty and satisfaction

Robal, Tarmo; Kalja, Ahto Proceedings of PICMET'13 : Technology Management in the IT-Driven Services : [July 28-August 1, 2013, San Jose, California, USA] 2013 / p. 1207-1216 : ill

Managing software engineering competences with domain ontology for customer and team profiling and training

Robal, Tarmo; Ojastu, Deniss; Kalja, Ahto; Jaakkola, Hannu PICMET '15 : proceedings : Management of the Technology Age 2015 / p. 1369-1376 : ill <http://dx.doi.org/10.1109/PICMET.2015.7273171>

Managing software engineering competences with domain ontology for customer and team profiling and training

Robal, Tarmo; Ojastu, Deniss; Kalja, Ahto; Jaakkola, Hannu PICMET '15 Conference : Management of the Technology Age : August 2-6, 2015, Portland, Oregon, USA : conference bulletin 2015 / p. 62

Mining and modelling web user engagement : a survey on academic sites for framework establishment [Electronic resource]

Robal, Tarmo; Kalja, Ahto PICMET '16 : Portland International Conference on Management of Engineering and Technology : proceedings. Technology Management for Social Innovation 2016 / p. 1942-1952 : ill. [USB] <https://doi.org/10.1109/PICMET.2016.7806759>

A model for users' action prediction based on locality profiles

Robal, Tarmo; Kalja, Ahto Information systems development : challenges in practice, theory and education. Volume 1 2009 / p. 169-182 https://link.springer.com/chapter/10.1007/978-0-387-68772-8_14

Modernization of the e-government in Estonia

Kalja, Ahto; Põld, Janari; Robal, Tarmo; Vallner, Uno Proceedings of PICMET '11 : Technology Management in the Energy Smart World (PICMET) : July 31 - August 4, 2011, Portland, Oregon USA 2011 / p. 3151-3157 : ill

Moving studies to e-environments - the approach of e-EDU

Robal, Tarmo BEC 2004 : Baltic Electronics Conference : Post-Graduate Student Session : Tallinn University of Technology, October 3-6, 2004, Tallinn, Estonia 2004 / p. 7 : ill

Moving studies to e-environments : a case study

Robal, Tarmo; Kalja, Ahto Current Developments in Technology-Assisted Education : Badajoz, Spain. Vol. II 2006 / p. 936-940

New generations of Estonian eGovernment components

Kalja, Ahto; Robal, Tarmo; Vallner, Uno PICMET '15 : proceedings : Management of the Technology Age 2015 / p. 625-631 : ill <http://dx.doi.org/10.1109/PICMET.2015.7273002>

New generations of Estonian eGovernment components

Kalja, Ahto; Robal, Tarmo; Vallner, Uno PICMET '15 Conference : Management of the Technology Age : August 2-6, 2015, Portland, Oregon, USA : conference bulletin 2015 / p. 93

On proving the concept of an ontology aided software refactoring tool

Põld, Janari; Robal, Tarmo; Kalja, Ahto Databases and information systems VII : selected papers from the tenth International Baltic Conference, DB&IS 2012 2013 / p. 84-94 <https://doi.org/10.3233/978-1-61499-161-8-84> [Article collection metrics at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

On proving the concept of an ontology aided software refactoring tool

Põld, Janari; Robal, Tarmo; Kalja, Ahto Databases and information systems : tenth international Baltic conference on databases and information systems : local proceedings, materials of doctoral consortium : Vilnius, Lithuania, July 8-11, 2012 2012 / p. 179 https://www.researchgate.net/publication/287294774_On_proving_the_concept_of_an_ontology_aided_software_refactoring_tool

Ontology design for automatic evaluation of web user interface usability [Electronic resource]

Robal, Tarmo; Marenkov, Jevgeni; Kalja, Ahto PICMET '17 : Portland International Conference on Management of Engineering

and Technology : Technology Management for the Interconnected World : proceedings 2017 / p. 1-8 : ill. [USB]
<https://doi.org/10.23919/PICMET.2017.8125425>

Ontology requirements specification for an EU DPP core ontology proposal

Maigre, Riina; Haav, Hele-Mai; Robal, Tarmo; Wolf, Marc-Andree; Danash, Fatima 2025 <https://doi.org/10.5281/zenodo.14892666>

Overcoming system complexity using models and knowledge structures. Editorial introduction to issue 36 of CSIMQ

Nazaruka, Erika; **Robal, Tarmo** Complex systems informatics and modeling quarterly (CSIMQ) 2023 / p. I-II

<https://doi.org/10.7250/csimq.2023-36.00> [Journal metrics at Scopus](#) [Article at Scopus](#)

Perceptions of software development practitioners on client learning

Ojastu, Deniss; Robal, Tarmo; Kalja, Ahto Databases and Information Systems : proceedings of the 11th International Baltic Conference, Baltic DB&IS 2014 : Tallinn, Estonia, 8-11 June, 2014 2014 / p. 397-406

Preface

Haav, Hele-Mai; Kalja, Ahto; Robal, Tarmo Databases and information systems VIII : selected papers from the Eleventh International Baltic Conference, DB&IS 2014 2014 / p. v

Preface

Lupeikienė, Audronė; Ralytė, Jolita; Kalibatiene, Diana; **Robal, Tarmo;** Dzemyda, Gintautas Joint Proceedings of Baltic DB&IS Conference Forum and Doctoral Consortium 2024 co-located with 16th International Baltic Conference on Digital Business and Intelligent Systems (Baltic DB&IS 2024) 2024 / p. 2 <https://ceur-ws.org/Vol-3698/preface.pdf> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Preface

The 16th International Baltic Conference on Digital Business and Intelligent Systems : Baltic DB&IS Conference Forum and Doctoral Consortium 2024, 30 June – 03 July, Vilnius, Lithuania : proceedings 2024 / 1 p <https://ceur-ws.org/Vol-3698/preface.pdf>

Preface

Robal, Tarmo; Kalibatiene, Diana; Karnitis, Girts; Ivanovic, Mirjana; Kirikova, Marite; Niedrite, Laila; Borzovs, Juris Joint Proceedings of Baltic DB&IS 2022 Doctoral Consortium and Forum co-located with 15th International Baltic Conference on Digital Business and Intelligent Systems (Baltic DB&IS 2022) 2022 / p. ii <https://ceur-ws.org/Vol-3158/xpreface.pdf>

Preface

Robal, Tarmo; Haav, Hele-Mai; Penjam, Jaan; Matulevičius, Raimundas Databases and Information Systems : 14th International Baltic Conference, DB&IS 2020, Tallinn, Estonia, June 16-19, 2020 : Proceedings 2020 / p. v-vi <https://doi.org/10.1007/978-3-030-57672-1> [Conference proceeding at Scopus](#) [Article at Scopus](#)

Preface : Doctoral Consortium

Robal, Tarmo; Kalibatiene, Diana; Grundspenkis, Janis BIR-WS 2025 : BIR 2025 Workshops and Doctoral Consortium : Joint Proceedings of the BIR 2025 Workshops and Doctoral Consortium co-located with 24th International Conference on Perspectives in Business Informatics Research, Riga, Latvia, September 17-19, 2025 2025 / p. 11 <https://ceur-ws.org/Vol-4034/preface.pdf>

Refactoring - key to success for constantly developed projects

Pöld, Janari; Kalja, Ahto; Robal, Tarmo Information modelling and knowledge bases XXVIII 2017 / p. 13-22
<https://doi.org/10.3233/978-1-61499-720-7-13> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Refactoring - key to success for constantly developed projects [Electronic resource]

Pöld, Janari; Kalja, Ahto; Robal, Tarmo Proceedings of the 26th International Conference on Information Modelling and Knowledge Bases - EJC 2016 : June 6-10, 2016, Tampere, Finland 2016 / p. 15-24. [USB]

SC-Block++: A blocking algorithm based on adaptive flood regularization

Ning, Arthur; Frasinca, Flavius; **Robal, Tarmo** SAC '25 : Proceedings of the 40th ACM/SIGAPP Symposium on Applied Computing 2025 / p. 1258-1266 <https://dl.acm.org/doi/10.1145/3672608.3707946> <https://doi.org/10.1145/3672608.3707946>

Special track on Intelligent Systems for Digital Era (ISDE)

SAC '25: Proceedings of the 40th ACM/SIGAPP Symposium on Applied Computing 2025 / p. 864-915
<https://dl.acm.org/doi/proceedings/10.1145/3672608>

Special track on Intelligent Systems for Digital Era (ISDE)

2024 <https://doi.org/10.1145/3605098>

Special track on Intelligent Systems for Digital Era (ISDE) : editorial message

Robal, Tarmo; Liiv, Innar; Kalibatiene, Diana; Matulevičius, Raimundas SAC '24 : Proceedings of the 39th ACM/SIGAPP Symposium on Applied Computing, Avila, Spain, April 8-12, 2024 2024 / p. 652-653 <https://dl.acm.org/action/showFmPdf?doi=10.1145%2F3605098> [Article at Scopus](#)

Spontaneous webcam instance for user attention tracking

Robal, Tarmo PICMET19 : Portland International Conference on management of engineering and technology : Technology and Management in the World of Intelligent Systems : proceedings 2019 / 8 p. : ill <https://doi.org/10.23919/PICMET.2019.8893798>

Stationary vs. non-stationary mobile learning in MOOCs

Zhao, Yue; **Robal, Tarmo**; Lofi, Christoph; Hauff, Claudia UMAP '18 : Adjunct Publication of the 26th Conference on User Modeling, Adaptation and Personalization, Singapore, July 08-11, 2018 : proceedings 2018 / p. 299-303 <https://doi.org/10.1145/3213586.3225241>

A study into elevator passenger in-cabin behaviour on a smart-elevator platform

Robal, Tarmo; Basov, Kevin; Reinsalu, Uljana; Leier, Mairo Baltic Journal of Modern Computing 2022 / p. 665-688 : ill <https://doi.org/10.22364/bjmc.2022.10.4.05> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A study on effective knowledge reuse in multi-platform web applications user interfaces

Marenkov, Jevgeni; **Robal, Tarmo**; **Kalja, Ahto** PICMET '15 Conference : Management of the Technology Age : August 2-6, 2015, Portland, Oregon, USA : conference bulletin 2015 / p. 68

A study on effective knowledge reuse in multi-platform web applications user interfaces

Marenkov, Jevgeni; **Robal, Tarmo**; **Kalja, Ahto** PICMET '15 : proceedings : Management of the Technology Age 2015 / p. 1351-1361 : ill <https://doi.org/10.1109/PICMET.2015.7273083>

A study on immediate automatic usability evaluation of web application user interfaces

Marenkov, Jevgeni; **Robal, Tarmo**; **Kalja, Ahto** Databases and Information Systems : 12th International Baltic Conference, DB&IS 2016, Riga, Latvia, July 4-6, 2016 : proceedings 2016 / p. 257-271 : ill https://doi.org/10.1007/978-3-319-40180-5_18 [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

A study on user click behaviour for WIS user interface improvements

Marenkov, Jevgeni; **Robal, Tarmo**; **Kalja, Ahto** Databases and information systems VIII : selected papers from the Eleventh International Baltic Conference, DB&IS 2014 2014 / p. 173-186 : ill <https://doi.org/10.3233/978-1-61499-458-9-173> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Studying the incorrect user behaviour in sophisticated self-service portal user interfaces

Marenkov, Jevgeni; **Robal, Tarmo**; **Kalja, Ahto** Proceedings of the 8th Annual Conference of the Estonian National Doctoral School in Information and Communication Technologies : December 5-6, 2014, Rakvere 2014 / p. 71-74 : ill

Surviving the unforeseen - teaching IT and engineering students during COVID-19 outbreak

Ruberg, Priit; Ellervee, Peeter; Tammemäe, Kalle; Reinsalu, Uljana; Rähni, Andres; **Robal, Tarmo** Proceedings - Frontiers in Education Conference, FIE 2022 / Code 184790 <https://doi.org/10.1109/FIE56618.2022.9962383> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

SysML in systems engineering course

Kruus, Helena; **Robal, Tarmo**; **Jervan, Gert** 10th European Workshop on Microelectronics Education : EWME 2014 : May 14-16, 2014, Tallinn, Estonia 2014 / p. 177-181 : ill

A systematic literature review on applicability of robot assistants in higher education

Budagov, Fuad; **Leoste, Janika**; **Meeran, Mohammad Tariq**; **Robal, Tarmo** Methodologies and Intelligent Systems for Technology Enhanced Learning : MIS4TEL 2024 2024 / p. 21-32 https://doi.org/10.1007/978-3-031-73538-7_3 [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Teaching modeling in SysML/UML and problems encountered

Kruus, Helena; **Robal, Tarmo**; **Jervan, Gert** Proceedings of the 25th International Conference on European Association for Education in Electrical and Information Engineering : 30 May-June 2014, Cesme, Türkiye 2014 / p. 33-36 : ill

Teaching rapid application development skills for digitalisation challenges

Robal, Tarmo; **Reinsalu, Uljana**; **Leoste, Janika**; **Jürimägi, Lembit**; **Heinsar, Risto** Digital Business and Intelligent Systems : 16th International Baltic Conference, Baltic DB&IS 2024, Vilnius, Lithuania, June 30 – July 3, 2024, Proceedings 2024 / p. 177-192 : ill https://doi.org/10.1007/978-3-031-63543-4_12 [Conference proceedings at Scopus](#) [Article at Scopus](#)

Testing scenarios for using telepresence robots in healthcare settings

Leoste, Janika; Strömberg-Järvis, Kadri; **Robal, Tarmo**; **Marmor, Kristel**; **Kangur, Katrin**; Rebane, Anne-Mari Computational and structural biotechnology journal 2024 / p. 105-114 <https://doi.org/10.1016/j.csbj.2024.01.004> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The most prominent software development concepts cited in IT professionals' blogs

Ojastu, Deniss; **Robal, Tarmo**; **Kalja, Ahto** Perspectives in business informatics research : 14th International Conference, BIR 2015, Tartu, Estonia, August 26-28, 2015 : proceedings 2015 / p. 197-212 https://doi.org/10.1007/978-3-319-21915-8_13 [Conference](#)

[proceedings at Scopus](#) [Article at Scopus](#)

The rational unified process with the "4+1" view model of software architecture - a way for modeling Web applications
Robal, Tarmo; Viies, Vladimir; Kruus, Margus Databases and information systems : proceedings of the Fifth International Baltic Conference : Baltic DB & IS 2002 : Tallinn, June 3-6, 2002. Vol. 2 2002 / p. 119-132

A tool for design-time usability evaluation of web user interfaces

Marenkov, Jevgeni; Robal, Tarmo; Kalja, Ahto Advances in databases and information systems 21st European Conference, ADBIS 2017 Nicosia, Cyprus, September 24-27, 2017 : proceedings 2017 / p. 394-407 : ill https://doi.org/10.1007/978-3-319-66917-5_26 [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

A touch-free service button for Smart Elevator Operation with dynamic QR-code generation

Reinsalu, Uljana; Robal, Tarmo 2023 12th Mediterranean Conference on Embedded Computing (MECO) : 6-10 June 2023, Budva, Montenegro : proceedings 2023 / 4 p. : ill <https://doi.org/10.1109/MECO58584.2023.10155102>

Towards adaptive web - analysing and recommending web users' behaviour = Veebikasutajate käitumise analüüs ja soovitud adaptiivse veebi loomiseks

Robal, Tarmo 2012 https://www.ester.ee/record=b2862251*est

Towards information society : Estonian case study

Kalja, Ahto; Robal, Tarmo; Vallner, Uno Proceedings of PICMET'09 : Portland International Conference on Management of Engineering & Technology, 2009 : Portland, Oregon, USA, August 2-6, 2009 2009 / p. 3218-3225 : ill

Towards personalized elevator travel with smart elevator system

Robal, Tarmo; Reinsalu, Uljana; Leier, Mairo Baltic journal of modern computing 2020 / p. 675-697

<https://doi.org/10.22364/bjmc.2020.8.4.12> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Uuring: inimesed eelistavad liftis seista alati sama koha peal

Harrik, Airika novaator.err.ee 2025 [Uuring: inimesed eelistavad liftis seista alati sama koha peal](#) [Uuring: inimesed eelistavad liftis seista alati sama koha peal](#) https://doi.org/10.1007/978-3-031-75887-4_10

Web systems evaluation on users' behaviour modelling

Robal, Tarmo; Kalja, Ahto Databases and information systems V : selected papers from the Eighth International Baltic Conference, DBAMPIS 2008 2009 / p. 41-52 : ill

A web-based economic decision tool for abatement investments for shipping industry

Bakkar, Yassine; Robal, Tarmo; Prause, Gunnar Klaus Reliability and statistics in transportation and communication : Selected Papers from the 19th International Conference on Reliability and Statistics in Transportation and Communication, RelStat'19, 16-19 October 2019, Riga, Latvia 2020 / p. 363-373 https://doi.org/10.1007/978-3-030-44610-9_36 [Article collection metrics at Scopus](#) [Article at Scopus](#)

Webcam-based attention tracking in online learning: a feasibility study

Robal, Tarmo; Zhao, Yue; Lofi, Christoph; Hauff, Claudia IUI '18 : Proceedings of the 2018 Conference on Intelligent User Interface, Tokyo, Japan, March 07-11, 2018 2018 / p. 189-197 : ill <https://doi.org/10.1145/3172944.3172987>

WebTT - digitaalskeemide testimine ja diagnostikaalaste õppelaborite e-keskkond : [TÜ 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

Veebilehekülg kui firma visiitkaart Internetis

Robal, Tarmo Arvutikasutaja 2003 / 2, lk. 9

Veebirakenduste loomine karkassmetoodika Rational Unified Process abil

Robal, Tarmo A & A 2002 / 1, lk. 7-18 : ill

Veebirakenduste modelleerimine 4+1 arhitektuurivaate mudeliga

Robal, Tarmo A & A 2002 / 2, lk. 20-30 : ill

A visual-semantic approach for building content-based recommender systems

Bendouch, Mounir M.; Frasinicar, Flavius; **Robal, Tarmo** Information systems 2023 / art. 102243, 12 p. : ill

<https://doi.org/10.1016/j.is.2023.102243> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)