

**A semiotic approach to quality in specifications of software measures**

**Eessaar, Erki** Enterprise information systems : 10th International Conference, ICEIS 2008 : Barcelona, Spain, June 12-16, 2008 : revised selected papers 2009 / p. 73-86 : ill [https://link.springer.com/chapter/10.1007/978-3-642-00670-8\\_6](https://link.springer.com/chapter/10.1007/978-3-642-00670-8_6)

**A set of practices for the development of data-centric information systems**

**Eessaar, Erki** Information system development : improving enterprise communication 2014 / p. 73-84

**A SQL database based meta-CASE system and its query subsystem**

**Eessaar, Erki; Sgirka, Rünno** Innovations in computing sciences and software engineering 2010 / p. 57-62  
[https://link.springer.com/chapter/10.1007/978-90-481-9112-3\\_10](https://link.springer.com/chapter/10.1007/978-90-481-9112-3_10)

**A UML profile for developing databases that conform to the third Manifesto**

**Eessaar, Erki** Innovations in computing sciences and software engineering 2010 / p. 69-74  
<https://ui.adsabs.harvard.edu/abs/2010iics.book...69E/abstract>

**An ontological analysis of metamodeling languages**

**Eessaar, Erki; Sgirka, Rünno** Information systems development : reflections, challenges and new directions 2013 / p. 381-392

**Andmebaaside projekteerimine**

**Eessaar, Erki** 2008 [http://www.ester.ee/record=b2431333\\*est](http://www.ester.ee/record=b2431333*est)

**Architecture of pattern management software system**

**Eessaar, Erki** Advances in Databases and Information Systems : proceedings of the 9th East-European Conference, ADBIS 2005 : Tallinn, September 12-15, 2005 2005 / p. 189-207 : ill

**Automating detection of occurrences of postgresSQL database design problems**

**Eessaar, Erki** Databases and Information Systems : 14th International Baltic Conference, DB&IS 2020, Tallinn, Estonia, June 16-19, 2020 : Proceedings 2020 / p. 176-189 [https://doi.org/10.1007/978-3-030-57672-1\\_14](https://doi.org/10.1007/978-3-030-57672-1_14) [Conference proceeding at Scopus](#) [Article at Scopus](#)

**A comparison of the universal and the regular database design**

**Eessaar, Erki; Soobik, Marek** Databases and information systems V : selected papers from the Eighth International Baltic Conference, DBAMPIS 2008 2009 / p. 289-300 : ill

**A database-based and web-based meta-CASE system**

**Eessaar, Erki; Sgirka, Rünno** Advanced techniques in computing sciences and software engineering 2010 / p. 379-384  
<https://ui.adsabs.harvard.edu/abs/2010atcs.book..379E/abstract>

**A data-centric algorithm for identifying use cases**

**Eessaar, Erki** Software Engineering Perspectives and Application in Intelligent Systems : proceedings of the 5th Computer Science On-line Conference 2016 (CSOC2016), Vol 2 2016 / p. 303-316 [https://doi.org/10.1007/978-3-319-33622-0\\_28](https://doi.org/10.1007/978-3-319-33622-0_28) [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**A decision support method for evaluating database designs**

**Eessaar, Erki; Soobik, Marek** Computer science and information systems 2012 / p. 81-106 : ill

**Evaluation of different designs to represent missing information in SQL databases**

**Eessaar, Erki; Saal, Elari** Innovations and advances in computer, information, systems sciences, and engineering 2013 / p. 173-187  
[https://doi.org/10.1007/978-1-4614-3535-8\\_14](https://doi.org/10.1007/978-1-4614-3535-8_14) [Conference Proceedings at Scopus](#) [Article at Scopus](#)

**Evaluation of Different Designs to Represent Missing Information in SQL Databases [Electronic resource]**

**Eessaar, Erki; Saal, Elari** CISSE 2011 International joint conferences 2011 / [6 p. : ill] [CD-ROM]  
[https://link.springer.com/chapter/10.1007/978-1-4614-3535-8\\_14](https://link.springer.com/chapter/10.1007/978-1-4614-3535-8_14)

**Extended principle of orthogonal database design**

**Eessaar, Erki** Proceedings of the 5th WSEAS International Conference on Artificial Intelligence, Knowledge Engineering and Data Bases : Madrid, Spain, February 15-17, 2006 2006 / p. 360-365  
[https://www.researchgate.net/publication/255599595\\_Extended\\_Principle\\_of\\_Orthogonal\\_Database\\_Design](https://www.researchgate.net/publication/255599595_Extended_Principle_of_Orthogonal_Database_Design)

**Extending UML profiles to model integrity constraints in SQL databases**

**Eessaar, Erki; Aaberg, Erko** Proceedings of the 21th [i. e. 21st] European-Japanese Conference on Information Modelling and Knowledge Bases : EJC2011 : Tallinn, Estonia, June 06-10, 2011. Vol. 1 2011 / p. 47-65 : ill  
[https://www.researchgate.net/publication/260291830\\_Extending\\_UML\\_Profiles\\_to\\_Model\\_Integrity\\_Constraints\\_in\\_SQL\\_Databases](https://www.researchgate.net/publication/260291830_Extending_UML_Profiles_to_Model_Integrity_Constraints_in_SQL_Databases)

**Extending UML profiles to model integrity constraints in SQL databases**

**Eessaar, Erki; Aaberg, Erko** Information modelling and knowledge bases XXIII 2012 / p. 39-58 : ill

### **Guidelines about usage of the complex data types in a database**

**Eessaar, Erki** WSEAS transactions on information science and applications 2006 / 4, p. 712-719

### **Holistlik süsteemiarendus süsteematriksi abil**

**Eessaar, Erki** A & A 2005 / 2, lk. 21-39 [https://artiklid.elnet.ee/record=b1017792\\*est](https://artiklid.elnet.ee/record=b1017792*est)

### **Integrated system analysis environment for the continuous consistency and completeness checking**

**Eessaar, Erki** Knowledge-based Software Engineering : proceedings of the Seventh Joint Conference on Knowledge-based Software Engineering : Tallinn, Estonia, August 28-31, 2006 2006 / p. 96-105

[https://www.researchgate.net/publication/221342709\\_Integrated\\_System\\_Analysis\\_Environment\\_for\\_the\\_Continuous\\_Consistency\\_and\\_Completeness\\_Checking](https://www.researchgate.net/publication/221342709_Integrated_System_Analysis_Environment_for_the_Continuous_Consistency_and_Completeness_Checking)

### **Integrated system analysis environment for the continuous consistency and completeness checking**

**Eessaar, Erki** Knowledge-based software engineering : proceedings of the Seventh Joint Conference on Knowledge-Based Software Engineering 2006 / p. 96-105 : ill

[https://www.researchgate.net/publication/221342709\\_Integrated\\_System\\_Analysis\\_Environment\\_for\\_the\\_Continuous\\_Consistency\\_and\\_Completeness\\_Checking](https://www.researchgate.net/publication/221342709_Integrated_System_Analysis_Environment_for_the_Continuous_Consistency_and_Completeness_Checking)

### **Metamodel-based comparison of data models**

**Eessaar, Erki** Advances and Innovations in Systems, Computing Sciences and Software Engineering 2007 / p. 109-114

[https://link.springer.com/chapter/10.1007/978-1-4020-6264-3\\_21](https://link.springer.com/chapter/10.1007/978-1-4020-6264-3_21)

### **Methods for searching patterns from the database of patterns**

**Eessaar, Erki** CAISE'04 Forum proceedings : the 16th Conference on Advanced Information Systems Engineering : Riga, Latvia, 7-11 June, 2004 2004 / p. 103-111

### **Mustrid ja nende kasutamist abistavad tarkvarasüsteemid**

**Eessaar, Erki** A & A 2003 / 6, lk. 17-32 : ill [https://artiklid.elnet.ee/record=b1014278\\*est](https://artiklid.elnet.ee/record=b1014278*est)

### **Mustrite kasutamine infosüsteemide arendamiseks**

**Eessaar, Erki** A & A 2002 / 3, lk. 28-38

### **On applying normalized systems theory to the business architectures of information systems**

**Eessaar, Erki** Baltic journal of modern computing 2014 / p. 132-149 : ill

### **On finding model smells based on code smells**

**Eessaar, Erki; Käosaar, Ege** Software Engineering and Algorithms in Intelligent Systems : Proceedings of 7th Computer Science On-line Conference 2018, Vol. 1 2019 / p. 269-281 [https://doi.org/10.1007/978-3-319-91186-1\\_28](https://doi.org/10.1007/978-3-319-91186-1_28) [Conference proceedings at Scopus](#)

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

### **On metamodel-based design of software metrics**

**Eessaar, Erki** Balancing agility and formalism in software engineering : second IFTP TC 2 Central and East European Conference on Software Engineering Techniques : CEE-SET 2007 : Poznan, Poland, October 10-12, 2007 : revised selected papers 2008 / p. 40-54 [https://link.springer.com/chapter/10.1007/978-3-540-85279-7\\_4](https://link.springer.com/chapter/10.1007/978-3-540-85279-7_4)

### **On pattern-based database design and implementation**

**Eessaar, Erki** Proceedings : 6th ACIS International Conference on Software Engineering Research, Management and Applications : SERA 2008 : 20-22 August 2008, Prague, Czech Republic 2008 / p. 235-242

[https://www.researchgate.net/publication/4370312\\_On\\_Pattern-Based\\_Database\\_Design\\_and\\_Implementation](https://www.researchgate.net/publication/4370312_On_Pattern-Based_Database_Design_and_Implementation)

### **On query-based search of possible design flaws of SQL databases**

**Eessaar, Erki** Innovations and advances in computing, informatics, systems sciences, networking and engineering 2015 / p. 53-60

[https://doi.org/10.1007/978-3-319-06773-5\\_8](https://doi.org/10.1007/978-3-319-06773-5_8) [Article collection metrics at Scopus](#) [Article at Scopus](#)

### **On specification and evaluation of object-relational data models**

**Eessaar, Erki** WSEAS transactions on computer research 2007 / February, p. 163-170

### **On the design of base tables in the SQL databases of some existing software**

**Eessaar, Erki** Software engineering perspectives in systems : proceedings of 11th Computer Science On-line Conference 2022, Vol. 1 2022 / p. 309-324 [https://doi.org/10.1007/978-3-031-09070-7\\_26](https://doi.org/10.1007/978-3-031-09070-7_26) [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **On the naming of database objects in the SQL databases of some existing software**

**Eessaar, Erki** Software engineering research in system science : proceedings of 12th Computer Science On-line Conference 2023 2023 / p. 534 - 550 [https://doi.org/10.1007/978-3-031-35311-6\\_51](https://doi.org/10.1007/978-3-031-35311-6_51) [Conference Proceedings at Scopus](#) [Article at Scopus](#)

---

### **On translation-based design of UML profiles**

**Eessaar, Erki** Innovative techniques in instruction technology, e-learning, e-assessment, and education 2008 / p. 144-149  
<https://www.semanticscholar.org/paper/On-Translation-Based-Design-of-UML-Profiles-Eessaar/0c73b384c4b0bab02227388496dfc371dd5a153f>

### **On universal database design**

**Eessaar, Erki; Soobik, Marek** Databases and information systems : proceedings of the Eighth International Baltic Conference, Baltic DBAMPIS 2008 : Tallinn, June 2-5, 2008 2008 / p. 349-360

### **On using a semiotic quality framework to evaluate the quality of conceptual database schemas**

**Eessaar, Erki** Emerging trends in computing, informatics, systems sciences, and engineering 2013 / p. 103-115  
[https://doi.org/10.1007/978-1-4614-3558-7\\_9](https://doi.org/10.1007/978-1-4614-3558-7_9) [Conference Proceedings at Scopus](#) [Article at Scopus](#)

### **Pattern-based usability analysis : comparison with a case-study**

**Zub, Dmitri; Eessaar, Erki** Technological developments in education and automation 2010 / p. 225-230  
[https://link.springer.com/chapter/10.1007/978-90-481-3656-8\\_42](https://link.springer.com/chapter/10.1007/978-90-481-3656-8_42)

### **Pattern-based usability evaluation of e-learning systems**

**Zub, Dmitri; Eessaar, Erki** Innovative techniques in instruction technology, e-learning, e-assessment, and education 2008 / p. 117-122 : ill [https://link.springer.com/chapter/10.1007/978-1-4020-8739-4\\_21](https://link.springer.com/chapter/10.1007/978-1-4020-8739-4_21)

### **Patterns as reusable fragments of knowledge**

**Eessaar, Erki** Databases and information systems : proceedings of the Fifth International Baltic Conference : Baltic DB & IS 2002 : Tallinn, June 3-6, 2002. Vol. 2 2002 / p. 243-248

### **Preserving semantics of the whole-part relationships in the object-relational databases**

**Eessaar, Erki** Advances in Information Systems development. New Methods and practice for the Networked Society. 2 2007 / p. 1-11

### **Preserving semantics of the whole-part relationships in the object-relational databases**

**Eessaar, Erki** 15th International Conference on Information Systems Development : Budapest, Hungary, 31 August - 2 September 2006 2006 / ? p [https://link.springer.com/chapter/10.1007/978-0-387-70802-7\\_1](https://link.springer.com/chapter/10.1007/978-0-387-70802-7_1)

### **A quality model of metamodeling systems**

**Sgirka, Rünno; Eessaar, Erki** Emerging trends in computing, informatics, systems sciences, and engineering 2013 / p. 543-555  
[https://doi.org/10.1007/978-1-4614-3558-7\\_46](https://doi.org/10.1007/978-1-4614-3558-7_46) [Conference Proceedings at Scopus](#) [Article at Scopus](#)

### **Relational and object-relational database management systems as platforms for managing software engineering artifacts**

**Eessaar, Erki** 2006 <https://digi.lib.ttu.ee/ii/?85> [https://www.ester.ee/record=b2209676\\*est](https://www.ester.ee/record=b2209676*est)

### **Selecting patterns for the evaluation of systems**

**Zub, Dmitri; Eessaar, Erki** Technological developments in networking, education and automation 2010 / p. 77-82  
[https://link.springer.com/chapter/10.1007/978-90-481-9151-2\\_14](https://link.springer.com/chapter/10.1007/978-90-481-9151-2_14)

### **Specifying business architecture as a step towards achieving normalized systems**

**Eessaar, Erki** Databases and Information Systems : proceedings of the 11th International Baltic Conference, Baltic DB&IS 2014 : Tallinn, Estonia, 8-11 June, 2014 2014 / p. 425-432 : ill

### **SQL or third manifesto compliant object-relational database management systems as the platforms for maintaining the whole-part relationships in a database**

**Eessaar, Erki** WSEAS transactions on computers 2006 / 10, p. 2440-2447

### **The database normalization theory and the theory of normalized systems : finding a common ground**

**Eessaar, Erki** Baltic journal of modern computing 2016 / p. 5-33 : ill

### **Towards a semiotic quality framework of software measures**

**Eessaar, Erki** ICEIS 2008 : proceedings of the Tenth International Conference on Enterprise Information Systems : Barcelona, Spain, June 12-16, 2008 2008 / p. 41-48 <https://www.semanticscholar.org/paper/Towards-a-Semiotic-Quality-Framework-of-Software-Eessaar/a11a095f7c93450d5656eeae0c55a6a2023dfb29>

### **Towards pattern management system**

**Eessaar, Erki** ICEIS 2004 : proceedings of the Sixth International Conference on Enterprise Information Systems : Porto, Portugal, April 14-17, 2004. Volume 3 2004 / p. 655-658 [https://www.researchgate.net/publication/220711582\\_Towards\\_Pattern\\_Management\\_System](https://www.researchgate.net/publication/220711582_Towards_Pattern_Management_System)

### **Truly relational databases as a platform for the artifact management**

**Eessaar, Erki** Proceedings of the Fourteenth International Conference on Information Systems Development : pre-conference 14-17

**The usage of declarative integrity constraints in the SQL databases of some existing software**

**Eessaar, Erki** Software Engineering and Algorithms : Proceedings of 10th Computer Science On-line Conference 2021, Vol. 1 2021 / p. 375–390 [https://doi.org/10.1007/978-3-030-77442-4\\_33](https://doi.org/10.1007/978-3-030-77442-4_33) [Conference proceedings at Scopus](#) [Article at Scopus](#)

**Using metamodeling in order to evaluate datamodels**

**Eessaar, Erki** Proceedings of the 6th WSEAS International conference on artificial Intelligence, Knowledge Engineering and Data Bases : Corfu Island, Greece, February 16-19, 2007 2007 / p. 181-186  
[https://www.researchgate.net/publication/254470284\\_Using\\_Metamodeling\\_in\\_order\\_to\\_Evaluate\\_Data\\_Models](https://www.researchgate.net/publication/254470284_Using_Metamodeling_in_order_to_Evaluate_Data_Models)

**Using relational database in the engineering repository systems**

**Eessaar, Erki** Proceedings of the Eighth International Conference on Enterprise Information Systems : Paphos, Cyprus, May 23-27, 2006 2006 / p. 30-37  
[https://www.researchgate.net/publication/220710991\\_Using\\_Relational\\_Databases\\_in\\_the\\_Engineering\\_Repository\\_Systems](https://www.researchgate.net/publication/220710991_Using_Relational_Databases_in_the_Engineering_Repository_Systems)

**Using SQL queries to evaluate the design of SQL databases**

**Eessaar, Erki; Voronova, Janina** New trends in networking, computing, e-learning, systems sciences, and engineering 2015 / p. 179-186 [https://doi.org/10.1007/978-3-319-06764-3\\_23](https://doi.org/10.1007/978-3-319-06764-3_23) [Article collection metrics at Scopus](#) [Article at Scopus](#)

**Veebirakenduste disaini modelleerimine UML-i abil**

**Eessaar, Erki** A & A 2000 / 4, lk. 25-35 : ill [https://artiklid.elnet.ee/record=b1004808\\*est](https://artiklid.elnet.ee/record=b1004808*est)

**Veebirakenduste loomine - traditsioonilise tarkvaraarenduse ja loomingulise disaini ühendamine**

**Eessaar, Erki** A & A 2000 / 3, lk. 27-37 : ill [https://artiklid.elnet.ee/record=b1004182\\*est](https://artiklid.elnet.ee/record=b1004182*est)

**Whole-part relationships in the object-relational databases**

**Eessaar, Erki** Proceedings of the 10th WSEAS International Conference on Computers : Vouliagmeni, Athens, Greece, July 10-15, 2006 2006 / p. 1263-1268