

IMCS UL'S publications in 2016

Scientific publications indexed in the Web of Science and/or Scopus database

1. **K. Podnieks.** *Locally Constrained Ontologies.* Baltic Journal of Modern Computing, Vol. 4 (2016), N 4, pp. 694–720 (Web of Science). DOI: 10.22364/bjmc.2016.4.4.08
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Project: 2014/0020/2DP/2.1.1.1.0/14/APIA/VIAA/072
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2. **J.Viksna**, D.Gilbert. *Gene duplication models and reconstruction of gene regulatory network evolution from network structure.* Baltic Journal of Modern Computing, vol. 4:5, 2016, pp.876-895. (Web of Science) DOI: 10.22364/bjmc.2016.4.4.18
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Computer science and informatics
3. **R. Liepins, N. Gruzitis, K. Cerans, J. Ovčiņnikova, U. Bojars, E. Celms.** *Adding Verbalization to Graphical Ontology Editor OWLGrEd.* Databases and Information Systems IX, Selected Papers from the Twelfth International Baltic Conference, DB&IS 2016, Frontiers in Artificial Intelligence and Applications, Vol 291, IOS Press, pp.17-30, 2016 (Web of Science), SCOPUS, ISSN: 09226389, DOI: 10.3233/978-1-61499-714-6-17
<https://www.scopus.com/authid/detail.uri?authorId=36626036400>
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Computer science and informatics
4. **G. Būmans, K. Čerāns.** *Database to Ontology Mappings in RDB2OWL: Notation and Implementation.* Databases and Information Systems IX, Selected Papers from the Twelfth International Baltic Conference, DB&IS 2016, Frontiers in Artificial Intelligence and Applications, Vol 291, IOS Press, pp.31-42, 2016. (Web of Science), SCOPUS, ISSN: 09226389, DOI: 10.3233/978-1-61499-714-6-31
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5. **J. Barzdins, M. Grasmanis, E. Rencis, A. Sostaks,** J. Barzdins. *Ad-hoc Querying of Semistar Data Ontologies Using Controlled Natural Language.* Frontiers in Artificial Intelligence and Applications, Vol. 291, DOI: 10.3233/978-1-61499-714-6-3, ISSN: 09226389, Databases and Information Systems IX, IOS Press, pp. 3-16, 2016, Web of Science, SCOPUS
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6. **R. Opmanis, P. Kikusts, M. Opmanis.** *Visualization of Large-Scale Application Testing Results.* Baltic Journal of Modern Computing, Vol. 4 (2016), No. 1, pp. 34–50 (Web of Science)
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Computer science and informatics
7. **R. Opmanis, P. Kikusts, M. Opmanis.** *Root Cause Analysis of Large Scale Application Testing Results.* Informatica (Netherlands)Open AccessVolume 27, Issue 4, 2016, Pages 819-842 (Web of Science), SCOPUS, ISSN: 08684952, DOI: 10.15388/Informatica.2016.113
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Project: 2014/0013/2DP/2.1.1.1.0/14/APIA/VIAA/034
Computer science and informatics. Mathematics

8. **A. Kalnins, J. Barzdins.** *Metamodel Specialization for Diagram Editor Building*, Databases and Information Systems IX, Selected Papers from DB&IS 2016, Frontiers in Artificial Intelligence and Applications, Vol. 291, IOS Press, pages 87-100, 2016, ISSN: 09226389, DOI: 10.3233/978-1-61499-714-6-87, (Web of Science) SCOPUS
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9. **J. Barzdins, A. Kalnins,** *Metamodel Specialization for Graphical Language and Editor Definition*, Baltic Journal of Modern Computing, Vol. 4 (2016), N 4, pp. 910-933 (Web of Science) DOI: 10.22364/bjmc.2016.4.4.20
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10. **A. Kalnins, E. Kalnina, A. Sostaks, E.Celms,** I. Tabernakulovs, *LINQ as Model Transformation Language for MDD*. Baltic Journal of Modern Computing, Vol. 4 (2016), N 4, pp. 934-964 (Web of Science) DOI: 10.22364/bjmc.2016.4.4.21
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12. **Jānis Cīrulis.** *Extending the star order to Rickart rings*. Linear and Multilinear Algebra Vol.64, No. 8, pp. 1498-1508, 2016, DOI: 10.1080/03081087.2015.1095858, ISSN: 03081087, SCOPUS, Web of Science
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14. **Cīrulis J.**, An Algebraic Approach to Functional-Dependency Semantics for First-Order Languages, Baltic Journal of Modern Computing, Volume: 4 Issue: 4 Pages: 789-810, DOI: 10.22364/bjmc.2016.4.4.13, Web of Science
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16. J.-J. Minana and A. Šostak. *Fuzzifying topology induced by a strong fuzzy metric*. Fuzzy Sets and Systems 300 (2016), 24-39. SCOPUS, Web of Science, ISSN: 01650114, DOI: 10.1016/j.fss.2015.11.005
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17. A. Šostak and I. Uljane. *L-valued bornologies on powersets*. Fuzzy Sets and Systems 294 (2016), 93-104. ISSN: 01650114 , DOI: 10.1016/j.fss.2015.07.016 , SCOPUS, Web of Science
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18. T. S. Dizman, A. Šostak and S. Yuksel. *Soft ditopological spaces*. Filomat Volume 30, Issue 1, 2016, Pages 209-222, ISSN: 03545180, DOI: 10.2298/FIL1601209D. SCOPUS
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19. S. Grecova, A. Šostak and I. Uljane. *A construction of a fuzzy topology from a strong fuzzy metric*. Applied General Topology, Volume 17, Issue 2, 2016, Pages 105-116, ISSN: 15769402, DOI: 10.4995/agt.2016.4495 (SCOPUS, Web of Science)
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21. A. Buikis, H. Kalis and I. Kangro. *Special splines of exponential type for the solutions of mass transfer problems in multilayer domains*. Mathematical Modelling and Analysis 21 (2016), no. 4, 450-465. DOI: 10.3846/13926292.2016.1182594, ISSN: 13926292, SCOPUS, Web of Science
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22. M. Abricka, I. Barmina, R. Valdmanis, M. Zake and H. Kalis. Experimental and numerical studies on integrated gasification and combustion of biomass. In: Chemical Engineering Transactions 50 (2016), 127-132. ISSN: 22839216, ISBN: 978-889560841-9, DOI: 10.3303/CET1650022 , SCOPUS, Web of Science
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25. **H. Kalis and M. Marinaki**. *Numerical study of 2D MHD convection around periodically placed cylinders*. International Journal of Pure and Applied Mathematics 110 (2016), no. 3, 503-517. ISSN: 13118080, DOI: 10.12732/ijpam.v110i3.10, SCOPUS
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29. **Yu. A. Klokov**. *Some Boundary Value Problems for a Fourth-Order System*. Differential Equations, 2016, Volume: 52, Issue: 3, Pages: 306-315. DOI: 10.1134/S0012266116030058 , ISSN: 00122661, (SCOPUS, Web of Science)
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33. Christopher Hanrui Chak, Rusins Freivalds, Frank Stephan, Henrietta Tan Wan Yik. On block pumpable languages. Theoretical Computer Science, Volume 609, pp. 272-285 (2016) Web of Science, Scopus, ISSN: 03043975, DOI: 10.1016/j.tcs.2015.10.008
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37. Boljiev B., On product of p-sequential spaces. Topology and its Applications, Volume 201, March 15, 2016, Pages 309-313, ISSN: 01668641, DOI: 10.1016/j.topol.2015.12.042, Scopus, Web of Science
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Peer reviewed scientific articles published in Latvian or foreign scientific journals with editorial board, including university journals

1. Levāne-Petrova, Kristīne. Izteicēja funkcijā lietoti lietuviešu valodas ciešamās kārtas pagātnes un tagadnes divdabji un to atbilsme latviešu valodā. Valoda: nozīme un forma 7. Gramatika un saziņa. Latvijas Universitāte, 2016, 104-115
http://www.lu.lv/fileadmin/user_upload/lu_portal/apgads/PDF/VNF_7/K_Levane_Petrova_VN_F_7.pdf
Linguistics and literary science
2. Saulīte, Baiba and Auziņa, Ilze, and Levāne-Petrova, Kristīne. Teikuma priekšmeta, izteicēja un papildinātāja novietojums un teikuma intonācija latviešu valodā. Valoda: nozīme un forma 7. Gramatika un saziņa. Latvijas Universitāte, 2016, 209-219
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3. D. Vēvere. *Lībiskais dialekts*. Avoti vēl neizsīkst. Latviešu valodas dialekti 21. gadsimtā. Sast. Anna Stafecka, Liene Markus-Narvila. Atb. red. Anna Stafecka. Rīga: LU Latviešu valodas institūts, 2016, 212.-263. lpp.
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Articles or chapters in articles/ science books indexed by the Web of Science and/or Scopus

1. S.-E. Han and A. Šostak. *M-valued Measure of Roughness for Approximation of L-fuzzy Sets and Its Topological Interpretation*. Studies in Computational Intelligence 620 (2016), 251-266. ISSN: 1860949X, DOI: 10.1007/978-3-319-26393-9_15, SCOPUS, Web of Science.
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1. Juris Borzovs, Kazuo Iwama, Solvita Zarina (Editors), Baltic Journal of Modern Computing, Vol. 4, No. 4, p. 345, 2016, ISSN 2255-8950, DOI: <http://dx.doi.org/10.22364/bjmc.2016.4.4>
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Computer science and informatics, Linguistics and literary science
3. Baiba Kaskina, Edgars Taurins, Andrea Dufkova. CSIRT Capabilities How to assess maturity? Guidelines for national and governmental CSIRTS. European Union Agency for Network and Information Security. ISBN 978-92-9204-164-9, DOI 10.2824/214073, TP-02-15-992-EN-N (December 2015 <https://www.enisa.eu/activities/cert/support/baseline-capabilities/csirt-capabilities>)
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4. Bernhards Blumbergs, Mauno Pihelgas, Markus Kont, Olaf M. Maennel and Risto Vaarandi "Hedgehog in the Fog: Creating and Detecting IPv6 Transition Mechanism-Based Information

Exfiltration Covert Channels” ISBN: 978-3-319-47560-8, ISSN 0302-9743, DOI: 10.1007/978-3-319-47560-8, Secure IT Systems: 21st Nordic Conference, NordSec 2016, Oulu, Finland, November 2-4, 2016

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5. **Everita Andronova**, Anna Frīdenberga, Renāte Siliņa-Piņķe, Anta Trumpa, Pēteris Vanags. Latviešu valodas vēsturiskā vārdnīca (16.-17. gadsimts). ISBN 978-9984-742-85-4. Rīga: LU Latviešu valodas institūts, 2016. Elektroniska publikācija: <http://www.tezaurs.lv/lvyy-exp/>

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1. Audris Kalnins, Janis Barzdins. Metamodel Specialization for Graphical Modeling Language Support. 2016. Proceedings - 19th ACM/IEEE International Conference on Model Driven Engineering Languages and Systems, MODELS 2016, 2 October 2016, Pages 103-112, ISBN: 978-145034321-3, DOI: 10.1145/2976767.2976779
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2. **S. Kozlovičs.** *Models and Model Transformations Within Web Applications*. Proceedings of the 12th International Baltic Conference, DB&IS 2016, Riga, Latvia, July 4-6, 2016. Communications in Computer and Information Science, vol. 615, Springer International Publishing, 2016, pp. 53-67. SCOPUS, Web of Science, DOI: 10.1007/978-3-319-40180-5_4, ISSN: 18650929, ISBN: 978-331940179-9
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12. **N. Gruzitis and G. Barzdins.** *The role of CNL and AMR in scalable abstractive summarization for multilingual media monitoring.* Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)Volume 9767, 2016, Pages 127-130, 5th International Workshop on Controlled Natural Language, CNL 2016; Aberdeen; United Kingdom; 25 July 2016 through 27 July 2016; Code 178559, 2016. SCOPUS, Web of Science, ISSN: 03029743, ISBN: 978-331941497-3, DOI: 10.1007/978-3-319-41498-0
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9. Diskusija "Mākslīgais intelekts: cilvēks vs. mašīnas". Festivāls "Lampa", 02.07.2017. <https://www.youtube.com/watch?v=msiuKvDAQWI&feature=youtu.be>

10. Nosaukti 12 nozīmīgākie sasniegumi Latvijas zinātnē <http://m.tvnet.lv/article/640495>
11. 01.02. CERT.LV pārstāvis piedalījās LR1 raidījumā “Kā labāk dzīvot” par sociālajiem tīkliem un mūsu drošību Internetā.
12. 08.02. CERT.LV pārstāvis sniedza interviju LR4 par Digitālās drošības alianses (DDA) izveidošanu.
13. 10.03. RadioTev tika sagatavots sižets “Noslēgusies akcija aizved datoru pie ārsta”.
14. 27.04. Telefonintervija DDA naudas drošības kampaņas “Internetā dari kā dzīvē?” ietvaros LR4 raidījumam “Домская площадь” par krāpniecību ar viltus rēķiniem.
15. 21.06. Intervija LR4 par bankas pārskaitījumu drošību un kiberoziegumiem saistībā ar internetbanku lietošanu.
16. 29.07. CERT.LV komentārs LR1 raidījumam “Labrīt stāsti” par izspiedējvīrusiem
17. 29.09. CERT.LV komentārs LR1 raidījumam “Pēcpusdiena” par VID likumā paredzētajām izmaiņām interneta vietņu bloķēšanai
18. 10.10. CERT.LV komentārs MixFM radio par Aizsardzības ministrijas ieviesto fakultatīvo padziļināto IT nodarbību programmu skolās
19. 19.10. CERT.LV intervija LR4 ziņām par Datorologa akciju un biežāk pielautajām lietotāju klūdām
20. 24.10. CERT.LV komentārs LR1 raidījumā “Kā labāk dzīvot” par to, kā darbiniekiem pašiem nekļūt par "algotiem" hakeriem un neapdraudēt uzņēmumu?
21. 26.10. CERT.LV komentārs LR1 ziņām par Kiberdrošības mēnesi un IT drošības aktualitātēm
22. 27.10. CERT.LV intervija LR4 raidījumam “Doma laukums” par DSS konferenci un IT drošības situāciju Latvijā
23. 28.10. CERT.LV intervija LR1 raidījumam “Aktuāli” par IT drošības situāciju un aktuālākajiem apdraudējumiem
24. 29.10. CERT.LV telefonintervija Latvijas Radio par portatīvo datoru webkameru aizlīmēšanas pamatošību
25. 07.11. CERT.LV komentārs LR1 raidījumam “Pēcpusdiena” par aktuālākajiem IT drošības apdraudējumiem valsts un pašvaldību iestādēs
26. 29.11. dalība Latvijas Radio 1 raidījumā “Kā labāk dzīvot” “.lv” reģistra pārstāve Dana Ludviga ar digitālā mārketinga speciālistu Artūrs Medeni runā par domēna vārda nozīmi uzņēmuma digitālās identitātes veidošanā un aizsargāšanā.
27. 30.11. CERT.LV komentārs LR4 ziņām par e-veselības projektu un tā drošību
28. 09.12. CERT.LV komentārs LR1 ziņām par kaitnieciskiem e-pastiem un krāpšanām pirmssvētku laikā
29. 16.12. CERT.LV intervija LR4 raidījumam “Doma laukums” par lietu interneta veiktajiem uzbrukumiem un krāpnieciskajiem e-pastiem, kas mērķeti uz grāmatvežiem

30. 04.01. CERT.LV pārstāvis sniedza interviju LNT par kiberdrošības tendencēm.
31. 09.02. CERT.LV pārstāvis piedalās LNT raidījumā “900 sekundes”.
32. 02.03. CERT.LV pārstāvis sniedza komentāru par mobilo apdraudējumu izplatību LTV raidījumam “Rīta panorāma”.
33. 07.03. CERT.LV pārstāvis sniedza interviju LTV1 raidījumam “Rīta panorāma” par drošību digitālajā vidē.
34. 07.03. CERT.LV pārstāvis Eprasmju nedēļas ietvaros sniedza intervijas LNT un TV3 par digitālo drošību.
35. 09.03. Kā cīnīties ar vīrusiem tālrunī? sižets LTV1 raidījumā “Rīta panorāma”.
36. 09.03. Осторожно! Вам угрожают "шифровальщики"! sižets 1BK ziņu izlaidumā 16-21(Datorologa akcijas ietvaros).
37. 13.03. CERT.LV pārstāvis sniedza komentāru LTV raidījumam “De Facto” par Gozi vīrusu.
38. 15.03. CERT.LV pārstāvis sniedza komentāru Vidzemes TV par viedierīču drošību.
39. 21.03. CERT.LV pārstāvis sniedza komentāru LTV1 par nelicenzētas programmatūras lietošanu
40. 11.04. CERT.LV Intervija Re: TV raidījumam “Re: TV Intervija” par pakalpojumu digitalizāciju un datu drošību.
41. 27.04. CERT.LV Telefonintervija LTV raidījumam “Rīta panorāma” saistībā ar DDA uzsākto naudas drošības kampaņu “Internetā dari kā dzīvē?”.
42. 27.04. CERT.LV Intervija TV3 ziņām par šifrējošajiem izspiedējvīrusiem DDA kampaņas “Internetā dari kā dzīvē?” ietvaros.
43. 27.04. CERT.LV Intervija LNT ziņām par izspiedējvīrusiem DDA kampaņas “Internetā dari kā dzīvē?” ietvaros.
44. 29.04. CERT.LV Komentārs Kivi TV par krāpšanu un datu drošību internetā.
45. 09.05. CERT.LV Intervija LTV raidījumam “Rīta panorāma” par vecāku kontroles iespējām datoros.
46. 03.08. CERT.LV intervija LNT raidījumam “900 sekundes” par “CEO krāpšanu”, izspiedējvīrusiem un parolēm
47. 16.08. CERT.LV intervija RIGATV 24 raidījumam “Pilsētas Pulss” par datu aizsardzību telefonos, kuros tiek izmantotas aplikācijas, piemēram, spēle Pokemon Go
48. 24.08. CERT.LV komentārs LTV par banku bezkontakta kartēm un to drošību
49. 29.08. CERT.LV komentārs MixTV raidījumam “Разворот” par darkne
50. 12.10. CERT.LV intervija LTV7 ziņām par jaunsardzes ieceri apmācīt jauniešus par “baltaijiem” hakeriem

51. 19.10. CERT.LV telefonintervija LTV raidījumam “Rīta panorāma” par Eiropas Kiberdrošības mēnesi un Datorologa akciju
52. 26.10. CERT.LV intervija TV3 par uzlauztām videokamerām un atbildīgu ievainojamību atklāšanu
53. 27.10. CERT.LV ntervija LTV raidījumam “Panorāma” par iekārtu ērtumu un drošības aspektu trūkumiem
54. 06.11. sižets TV3 ziņās par IT drošību valsts un pašvaldību iestādēs
55. 27.11. CERT.LV komentārs TV3 raidījumam “Nekā personīga” par Ķīnā ražotu iekārtu – telefonu un novērošanas kameru – drošības nepilnībām
56. 15.12. CERT.LV intervija LNT raidījumam “900 sekundes” par gada aktualitātēm un svarīgākajiem apdraudējumiem pirmssvētku periodā
57. 16.12. CERT.LV intervija TV3 ziņām par lietu internetu (IoT) un tā drošības aspektiem
58. 21.12. CERT.LV komentārs TV3 ziņām par policijas izmeklēto kiberuzbrukumu diviem interneta izsoļu namiem
59. “Kas ir DNSSEC un kādēļ tas ir nepieciešams? - portālā PARDOMENU.LV, 29.septembris, 2016.gads <http://www.pardomenu.lv/2016/09/29/kas-ir-dnssec/>
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66. “Jaunais augstākā līmeņa domēns pārdots par 41,5 miljonu dolāru” - vietnē www.nic.lv, 12.februāris, 2016.gads <https://www.nic.lv/lv/jaunais-domens-pardots-par-41-5-miljonu-dolaru>
67. “ICANN ir jauns prezidents!” - vietnē www.nic.lv, 3.marts, 2016.gads <https://www.nic.lv/lv/icann-ir-jauns-prezidents>
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