

LISTA DE LUCRĂRI

1. Teza(-ele) de doctorat

1. **Tirtea R.**, „Contributii la imbunatatirea dependabilitatii si securitatii informatiei” Universitatea „Politehnica” Timișoara, Editura Politehnica, seria 10, Știința Calculatoarelor, ISSN 1842-7707, ISBN 978-973-625-422-2, teza de doctorat, promotor: M. Vlăduțiu, 106 pagini, Februarie 2007.
2. **Tirtea R.**, „Integration at middleware level of fault tolerance for distributed systems,” K.U.Leuven, ESAT-ELECTA, teza de doctorat, promotori: Deconinck G. & Belmans R., ISBN 90-5682-650-6, 157 pagini, December, 2005.

2. Publicatii:

- A) Cărți publicate, îndrumare/culegeri publicate,
- B) capitole publicate în volume colective,
- C) capitole teoretice redactate,
- D) sisteme de laborator funcționale, după caz, prin care se aduc contribuții la asigurarea și perfecționarea activităților didactice/profesionale.

1. **Tirtea R.**, „Contributii la imbunatatirea dependabilitatii si securitatii informatiei” Universitatea „Politehnica” Timișoara, Editura Politehnica, seria 10, Știința Calculatoarelor, ISSN 1842-7707, ISBN 978-973-625-422-2, teza de doctorat, promotor: M. Vladutiu, 106 pagini, Februarie 2007.
2. **Tirtea R.**, „Integration at middleware level of fault tolerance for distributed systems,” K.U.Leuven, ESAT-ELECTA, teza de doctorat, promotori: Deconinck G. & Belmans R., ISBN 90-5682-650-6, 157 pagini, December, 2005.
3. Mang E., **Tirtea R.**, „Proiectarea logica în VHDL – Aplicații practice”, ISBN 973-8083-86-9, Editura Universității din Oradea, 152 pagini, 2000.
4. Mang E., Mang I., **Tirtea R.**, - „Proiectarea logică cu FPGA”, Universitatea din Oradea, lucrări practice, 82 pagini, 1999.
5. Mang E., Novac O., **Tirtea R.**, „Analiza și sinteza dispozitivelor numerice-circuite secvențiale”, Universitatea din Oradea, 45 pagini, 1999.
6. Mang I., Mang E., **Tirtea R.**, „Tehnici de securitate a datelor” - îndrumător de laborator - Universitatea Oradea, 42 pagini, 1998.

2.D) Publicatii care aduc contributii la perfectionarea activitatilor profesionale

1. Survey of accountability, trust, consent, security and privacy mechanisms in online environments, **Rodica Tirtea**, Demosthenes Ikonomou, Slawomir Gorniak, Panagiotis Saragiotis - ENISA, and Ronald Koorn, Dennis Voges, Peter van der Knaap - KPMG, The Netherlands, 42 pages, available at: <https://www.enisa.europa.eu/publications/survey-pat>
2. Bittersweet cookies. Some security and privacy considerations, 2011, **Rodica Tirtea** - ENISA, Claude Castelluccia - INRIA, Demosthenes Ikonomou – ENISA, 16 pages, available at: https://www.enisa.europa.eu/publications/copy_of_cookies
3. Data breach notifications in the EU, 2011, Slawomir Gorniak, Demosthenes Ikonomou, **Rodica Tirtea** - ENISA, and Andreas Rockelmann, Joshua Budd, Michael Vorisek – IDC CEMA, 38 pages, available at: <https://www.enisa.europa.eu/publications/dbn>
4. The Use of Cryptographic Techniques in Europe, Edward Hamilton and Mischa Kriens of Analysys Mason Ltd., **Rodica Tirtea** of ENISA, 2011, 54 pages, available at: <https://www.enisa.europa.eu/publications/the-use-of-cryptographic-techniques-in-europe>
5. Study on data collection and storage in the EU, Eleni Kosta, Jos Dumortier, Hans Graux - time.lex CVBA; and **Rodica Tirtea**, Demosthenes Ikonomou – ENISA, 2012, 60 pages, available at: <https://www.enisa.europa.eu/publications/data-collection>
6. The right to be forgotten - between expectations and practice, Peter Druschel (Max Planck Institute for Software Systems, Germany), Michael Backes (Saarland University, Germany), **Rodica Tirtea** (ENISA), 2012, 22 pages, available at: <https://www.enisa.europa.eu/publications/the-right-to-be-forgotten>
7. On the security, privacy and usability of online seals, Hannes Tschofenig, NSN, Finland, Melanie Volkamer, CASED/TU Darmstadt, Germany, Nicola Jentzsch, DIW Berlin, Germany, Simone Fischer Hübner, Karlstad University, Sweden, Stefan Schiffner, ENISA, **Rodica Tirtea**, ENISA, 2013, 32 pages, available at: <https://www.enisa.europa.eu/publications/on-the-security-privacy-and-usability-of-online-seals>
8. Roadmap for NIS education programmes in Europe, Bettina Berendt, KU Leuven, Belgium, Stefano De Paoli, Abertay University, Dundee, UK, Christopher Laing, Northumbria University, UK, Simone Fischer-Hübner, Karlstad University, Sweden, Daria Catalui, ENISA, **Rodica Tirtea**, ENISA, Catalogue number TP-04-14-677-EN-N, ISBN 978-92-9204-090-1 DOI/EN 10.2824/32639 2014, 45 pages, available at: <https://www.enisa.europa.eu/publications/roadmap-for-nis-education-programmes-in-europe>

3 Articole/studii publicate:

- A) în reviste de specialitate de circulație internațională recunoscute cotate ISI sau indexate în baze de date internaționale specifice domeniului, care fac un proces de selecție a revistelor pe baza unor criterii de performanță ;
- B) indexate în baze de date internaționale recunoscute (BDI).
- C) în alte reviste de specialitate de circulație internațională ;
- D) în reviste din țară recunoscute C.N.C.S.I.S. ;
- E) în alte reviste de specialitate de circulație națională cu (ISBN, ISSN)
- F) citări ISI/BDI/Alte reviste

3A

1. **Tirtea R.**, *Resource aware run-time adaptation support for recovery strategies*, Computing and Informatics, COMPUT INFORM, ISSN 1335-9150, No.1, 2009 (IF 0.492).
2. **Tirtea R.**, Deconinck G., Belmans R., „Cost analysis of adaptive fault management,” Annual Reliability & Maintainability Symposium (RAMS), ISBN 0-7803-8825-9, ((**publicatie ISI**, IF 0.029), Alexandria, Virginia, USA, Jan.24-27, 2005, 7 pagini.
3. **Tirtea R.**, Deconinck G., De Florio V., Belmans R., „Using resource monitoring to select recovery strategies,” Proc. Of 2004 Annual Reliability & Maintainability Symposium (RAMS2004), ISBN 0-7803-8215-3, ISSN 0149-144X ((**publicatie ISI**, IF 0.034), Los Angeles, California, USA, January 26-29, 2004; pp. 266-271.
4. **Tirtea R.**, Deconinck G., De Florio V., „Le logiciel d’intermédiation: Un panorama critique et réutilisation dans les systèmes d’automatisation enfouis à sûreté de fonctionnement,” Genie logiciel, Paris, No.61; pp. 2-8, June, 2002.

1. Privacy and Data Protection by Design, George Danezis, Josep Domingo-Ferrer, Marit Hansen, Jaap-Henk Hoepman, Daniel Le Métayer, **Rodica Tirtea**, Stefan Schiffner, ENISA, 2015, 79 pages, ISBN 978-92-9204-108-3, DOI 10.2824/38623, available at: <https://www.enisa.europa.eu/publications/privacy-and-data-protection-by-design> also published in arXiv preprint arXiv:1501.03726

3C

1. ENISA Activities in Supporting European Commission Initiatives in the Area of Privacy & Data Protection, U Helmbrecht, D Ikonou, B Daskala & **R Tirtea**, Digital Enlightenment Yearbook 2012, 2012, pages 109 – 115, DOI 10.3233/978-1-61499-057-4-109, available at: ebooks.iospress.nl/publication/31973

3D

1. **Tirtea R.**, *Cryptographic hash functions. Trends and challenges*, Journal of Computer Science and Control Systems (JCSCS): ISSN 1844-6043, 2009
 2. **Tirtea R.**, Replicated Rejuvenated Services. A Case Study, Journal of Computer Science and Control Systems (JCSCS): ISSN 1844-6043, 2009
 3. **Tirtea R.**, *Using Cryptographic Algorithms Properties for Fault Tolerance Purposes*, Proc. of 6th Int. Conf. of Renewable Sources and Environmental Electro-Technologies (RSEE), Published in Analele Universitatii din Oradea, ISSN 1841-7213, 2006.

3F



4. A) Articole/studii publicate în volumele unor manifestări științifice: (se precizează dacă este cazul -cotate ISI sau indexate în baze de date internaționale-BDI).

B) internaționale recunoscute (cu ISSN sau ISBN) țară și din străinătate

C) naționale,

4A

1. **Tirtea R.**, Deconinck G., "Software Rejuvenation and Replicated Rejuvenated Services", Proc. of 5th IEEE International Conference on Industrial Informatics (INDIN2007), July 23-26, 2007, Vienna, Austria, pp.767-772.
 2. **Tirtea R.**, Vladutiu M., Deconinck G., "Low Cost Self-Testing Implementation for MISTY1 Cryptographic Algorithm", Proc. of 5th IEEE International Conference on Industrial Informatics (INDIN 2007), July 23-26, 2007, Vienna, Austria, pp. 119-124.
 3. **Tirtea R.**, Deconinck G., Belmans R., "Fault tolerance adaptation requirements vs. quality-of-service, real-time and security in dynamic distributed systems," Annual Reliability and Maintainability Symposium (RAMS), The International Symposium on Product Quality & Integrity, ISBN 1-4244-0007-4, New Port Beach, California, USA, 23-26 January, 2006, 8 pagini (**publicatie ISI**).
 4. **Tirtea R.**, Deconinck G., "Specifications overview for counter mode of operation. Security aspects in case of faults," 12th IEEE Mediterranean Electrotechnical Conference (MELECON 2004), Dubrovnik, Croatia, May 12-15, 2004; 5 pagini (**publicatie ISI**).

4B

1. Deconinck G., Rigole T., Vanthournout K., **Tirtea R.**, Dusa A., Driesen J., Belmans R.: "Embedded automation for energy applications and its interdependence with the info'structure," 2006 IEEE International Conference on Systems, Man, and Cybernetics (SMC'06), Taipei, Taiwan, October 8 - 11; pp. 575-579, 2006.
 2. **Tirtea R.**, Deconinck G., "On dependencies between fault tolerance and security in distributed systems," First CRIS International Workshop On Critical Information Infrastructures (CIW'05), Linköping, Sweden, May 17-18; pp. 27-33, 2005.
 3. Deconinck G., Driesen J., Dusa A., **Tirtea R.**, Vanthournout K., "Requirements Analysis for Dependability-Aware Grid-Computing," Suppl. Vol. Proc. 5th European Dependable Computing Conf. (EDCC-5), Budapest, Hungary, April 20-22, 2005; pp. 75-76.
 4. **Tirtea R.**, Deconinck G., "Fault Detection Mechanisms for Fault Analysis Attacks Resistant Cryptographic Architecture," Proceedings of Third IEEE International Conference on Systems, Signals & Devices SSD'05, on CD-Rom, Sousse, Tunisia, March 21-24, 2005; 6 pagini.
 5. **Tirtea R.**, "Integration of adaptable fault management techniques into a dependable middleware architecture," Supplemental Volume Of Int. Conf. On Dependable Systems And Networks (DSN-2004), Florence, Italy, June 28-July 1, 2004; pp. 184-186.
 6. Deconinck G., Driesen J., Dusa A., **Tirtea R.**, Van de Vyver J., Vanthournout K., "A dependable information infrastructure for power quality control," Supplemental Volume Of Int.Conf. On Dependable Systems And Networks (DSN-2004), Florence, Italy, June 28-July 1, 2004; pp. 24-25.
 7. **Tirtea R.**, Deconinck G., "Specifications overview for counter mode of operation. Security aspects in case of faults," 12th IEEE Mediterranean Electrotechnical Conference (MELECON 2004), Dubrovnik, Croatia, May 12-15, 2004; 5 pagini.
 8. De Florio V., Deconinck G., **Tirtea R.**, Belmans R.: "Recovery languages as a means to embed error recovery in distributed applications," 8th Cabernet Radicals Workshop On Distributed And Dependable Systems, Ajaccio, France, October 5-8, 2003; 5 pagini.
 9. **Tirtea R.**, Deconinck G., De Florio V., Belmans R.: "QoS monitoring at middleware level for dependable distributed automation systems," 13th International Symposium On Software Reliability Engineering (ISSRE 2002), student award, ISBN 0-9671473-2-8, Annapolis, Maryland, USA, November 12-15, 2002; pp. 217-218.

10. Tirtea R., Deconinck G.: " *Reusing middleware for a dependable power quality assessment system,*" IEEE Young Researchers Symposium In Electrical Power Engineering - Distributed Generation (CD Rom), Leuven, Belgium, February 7-8, 2002; 5 pagini.

4C:

1. **Tirtea R.,** Deconinck G., Belmans R., "Overview of monitoring mechanisms used in the grid," 8th International Conference On Engineering Of Modern Electric Systems, Published in "Analele Universitatii din Oradea", Fascicula Electrotehnica, ISSN 1223-2106, Oradea, Romania, May 26-28, 2005; pp. 128-133.
2. **Tirtea R.,** Deconinck G.: "A Survey of Middleware and its Support for Fault Tolerance," Proc. 6th Int. Conf. Engineering of Modern Electric Systems, EMES-2001, Felix-Spa, Romania, May 24-26, 2001.
3. Mang E., Mang I., **Tirtea R.,** "The Advantages and the Risks Concerning a Public-Key Infrastructure", Proc. of Int. Conf. EMES 2001, Oradea, pp. 122-127, 2001.
4. Mang I., Mang E., **Tirtea R.,** "Test Methodes for Criptor 1.0 - A VLSI Implementation of The RC6 Block Cipher", Analele Universitatii din Oradea, Fascicula Colegiului Tehnic, Economic si de Administratie, ISSN 1582-7186; pp 67-73, 2001.
5. Mang I., **Tirtea R.,** "Standard Cryptographic Algorithms Used For Secure Network Communications", Proc. of Int. Conf. RSEE 2000, Oradea, 6 pagini, 2000.
6. Mang E., **Tirtea R.,** "Hardware implementation of key Expansion procedure for MARS", Proc. of Int. Conf. RSEE 2000, Oradea, 6 pagini, 2000.
7. Mang E., Mang I., **Tirtea R.,** "Performances and characteristics of AES candidates", Proc. of Int. Conf. RSEE 1999, Oradea, pp. 121-126, 1999.
8. Mang I., Mang E., **Tirtea R.,** - „The RC6 Algorithm”, Proc. of Int. Conf. RSEE 1999, Oradea, pp. 267-272, 1999.

5 Brevete de invenție

6 Proiecte/contracte/granturi de cercetare-dezvoltare-inovare:

- A) obținute prin competiție pe bază de contract/grant internaționale
- B) obținute prin competiție pe bază de contract/grant naționale
- C) contracte de cercetare cu mediul socio-economic
- D) alte lucrări de cercetare-dezvoltare, după caz.

6A.

1. *Assessment of Power Quality in Electrical Energy Systems: Basic Study and Possible Solutions (GOA/2001/04).* Colaborator din partea K.U.Leuven-ESAT-ELEN. Co-promoter. 120 MM, € 400 000, (2001-2005).
2. *DepAuDE project (FP5 IST-2000-25434) (Dependability for embedded automation systems in dynamic environments with intra-site and inter-site dependability aspects).* Colaborator din partea K.U.Leuven, Project-coordinator, research leader. Partners: K.U.Leuven, CESI SpA, Siemens AG, Univ. of Ferrara, Univ. di Torino, TXT e-solutions SpA. 56 MM, € 386 384 (2001-2003).
3. *FWO Krediet aan Navorsers 1.5.148.02, Evaluation of dependability of embedded automation applications with intra-site and inter-site distribution aspects.* Colaborator din partea K.U.Leuven, € 10 000 (2002).

6D.

1. Privacy, Accountability and Trust – Challenges and Opportunities, (Project management Rodica Tirtea), 2011, 74 pages, ENISA, available at: <https://www.enisa.europa.eu/publications/pat-study>
2. Trust and Reputation Models, Project management Rodica Tirtea), 2011, 61 pages, ENISA, available at: <https://www.enisa.europa.eu/publications/trust-and-reputation-models>
3. Study on monetising privacy. An economic model for pricing personal information, 2012, ENISA (project management: Demosthenes Ikononou and Rodica Tirtea), 76 pages, available at: <https://www.enisa.europa.eu/publications/monetising-privacy>
4. Privacy considerations of online behavioural tracking, 2012, ENISA (project management: Rodica Tirtea and Demosthenes Ikononou), 33 pages, available at: <https://www.enisa.europa.eu/publications/privacy-considerations-of-online-behavioural-tracking>
5. Report on Annual Privacy Forum 2012, (project management: Daria CĂTĂLUI, Demosthenes IKONOMO, Rodica TIRTEA), 32 pages, 2012, ENISA, available at: <https://www.enisa.europa.eu/publications/report-on-annual-privacy-forum-2012>
6. Algorithms, Key Sizes and Parameters Report – 2013, (Project management Rodica Tirtea), 96 pages, 2013, ENISA, available at: <https://www.enisa.europa.eu/publications/algorithms-key-sizes-and-parameters-report>
7. Recommended cryptographic measures - Securing personal data, 2013, (Project management Rodica Tirtea), 34 pages, 2013, ENISA, available at: <https://www.enisa.europa.eu/publications/recommended-cryptographic-measures-securing-personal-data>
8. Security certification practice in the EU - Information Security Management Systems - A case study, (Project management Rodica Tirtea), 33 pages, 2013, ENISA, available at: <https://www.enisa.europa.eu/publications/security-certification-practice-in-the-eu-information-security-management-systems-a-case-study>
9. Securing personal data in the context of data retention, 2013, (Project management Rodica Tirtea), 41 pages, 2013, ENISA, available at: <https://www.enisa.europa.eu/publications/securing-personal-data-in-the-context-of-data-retention>
10. Algorithms, key size and parameters report 2014, (Project management Rodica Tirtea), 113 pages, 2014, ENISA, Catalogue number TP-05-14-084-EN-N, ISBN 978-92-9204-102-1, DOI 10.2824/36822, available at: <https://www.enisa.europa.eu/publications/algorithms-key-size-and-parameters-report-2014>
11. Study on cryptographic protocols, (Project management Rodica Tirtea), 52 pages, 2014, ENISA, Catalogue number TP-06-14-085-EN-N, ISBN 978-92-9204-103-8, DOI 10.2824/3739, available at: <https://www.enisa.europa.eu/publications/study-on-cryptographic-protocols>

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Semnătura: