

CURRICULUM VITAE (NOVEMBER, 2009)



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Résumé

Agusti Solanas (Tarragona, Catalonia, Spain, 1980) is a researcher at the CRISES Research Group and the UNESCO Chair in Data Privacy and a tenure-track lecturer in the Department of Computer Science and Mathematics at the Rovira i Virgili University (URV) of Tarragona, Catalonia, Spain.

He obtained his B.Sc. and M.Sc. degrees in Computer Engineering from URV in 2002 and 2004, respectively, the latter with honours (i.e. *Outstanding Graduation Award*). He received a Diploma of Advanced Studies (*Master*) in Telematics Engineering from the Technical University of Catalonia (UPC) in 2006. He received a Ph.D. in Telematics Engineering from the Technical University of Catalonia in 2007 with honours (*A cum laude*). His fields of activity are data privacy, data security and artificial intelligence, specifically, clustering and evolutionary computation.

He is a participant researcher in the CONSOLIDER-INGENIO 2007 project. Also, he has participated in several Spanish-funded and Catalan-funded research projects. He has authored over 60 publications and he has delivered several talks. He has served as chair, programme committee member and reviewer in several conferences and journals. He is a member of several scientific organisations such as the Institute of Electrical and Electronics Engineers (IEEE), the Association for Computing Machinery (ACM), the International Association for Cryptologic Research (IACR) and the $\Sigma\Xi$ (SIGMA XI) Scientific Research Society. He is also a member of the IEEE GOLD (Graduates Of the Last Decade) and he volunteers as editorial assistant for the IEEE GOLDRush Newsletter. Currently he is a member of the board of the IEEE Spain Section.

1 Summary of Research Indicators

- **Awards:** 3
- **Ph.D. Theses Advised:** 3 (0 completed, 3 in progress)
- **M.Sc. and B.Sc. Theses Advised:** 23 (17 completed, 6 in progress)
- **Research projects and contracts:** 7
 - **Catalan competitive R+D projects:** 3
 - **Spanish competitive R+D projects:** 4
- **Total number of publications:** 65
 - **Books as editor:** 1 (1 international)
 - **Book chapters:** 5
 - **Articles in ISI JCR journals:** 12
 - **Articles in non-ISI JCR journals:** 15
 - * **ACM Computing Reviews:** 8
 - * **Springer Lecture Notes in Computer Science:** 6
 - * **Others:** 1
 - **Articles in *proceedings* with ISBN:** 32
- **Hirsch H Index (Google Scholar, 21/10/09):** 7
- **Hirsch H Index (Web of Science, 21/10/09):** 2
- **Conference/Workshop general or programme chair:** 5
- **Conference/Workshop programme/organisation committee:** 11

2 Education & Accreditations

1. [2009] Accredited by the Rovira i Virgili University as Active Researcher.
2. [2008] Accredited by the Catalan Agency for University Quality (AQU) as Tenure-Track Lecturer. (In catalan: Professor Lector.)
3. [2007] Ph.D. in Telematics Engineering, Technical University of Catalonia (UPC). Barcelona. Catalonia. Spain. (*A cum laude*)
4. [2006] Diploma of Advanced Studies (*Master*) in Telematics Engineering, Technical University of Catalonia (UPC). Barcelona. Catalonia. Spain.
5. [2004] M.Sc. in Computer Engineering with honours, Rovira i Virgili University (URV). Tarragona. Catalonia. Spain. *Outstanding Graduation Award*.
6. [2002] B.Sc. in Computer Engineering (2002), Rovira i Virgili University (URV). Tarragona. Catalonia. Spain.

3 Languages

	Speak	Read	Write
1. Catalan (mother tongue)	Fluently	Correctly	Correctly
2. Spanish	Fluently	Correctly	Correctly
3. English	Correctly	Correctly	Correctly
4. German	Basically	Basically	Basically
5. French	Basically	Basically	Basically

4 Awards

1. [2008] 2nd edition of the Federico Mayor Zaragoza Prize (5th Prize) for the essay entitled “**Science and Integration: the Zhiyao’s adventure**”. Organised by the Association of UNESCO Friends of Tortosa.
2. [2005] Selected for the Young Researcher Award in the XVIII Young Researchers Contest, organised by the Spanish Ministry of Education, Culture and Sport. (*As the director of Susana Bujalance for the study “Watermarking of Non-Numerical Databases”*)
3. [2004] Outstanding Graduation Award (*Best student of the M.Sc in Computer Engineering*) Rovira i Virgili University (URV).

5 Grants

1. [2009] From the Institute of Education Sciences of the Rovira i Virgili University. 400,34€.

6 Positions

1. From Sep. 2008. Tenure Track Lecturer at Rovira i Virgili University (URV). Tarragona. Catalonia. Spain.
2. Feb. 2008 - Sep. 2008. Full-time post-doctoral researcher at the CRISES Research Group. Rovira i Virgili University (URV). Tarragona. Catalonia. Spain.
3. Sep. 2005 - Jan. 2008. (FPI) Pre-doctoral Grant-holder in the CRISES Research Group. Rovira i Virgili University (URV). Tarragona. Catalonia. Spain.
4. Sep. 2004 - Sep. 2005. (URV) Pre-doctoral Grant-holder in the Department of Computer Science and Mathematics. Rovira i Virgili University (URV). Tarragona. Catalonia. Spain.
5. Jan. 2004 - Sep. 2004. Analyst-Programmer at SIMPPLE.
6. Sep. 2002 - Sep. 2004. Research Assistant at the Robotics and Computer Vision Research Group (IRCV). Rovira i Virgili University (URV). Tarragona. Catalonia. Spain.

7 Ph. D. Theses Advised

1. César Mauri Loba, “Human-Computer Interaction: A Study on Cerebral Palsy People”. Rovira i Virgili University, Doctoral Programme in Computer and Security Engineering. Date of public defense: (to be announced). Mark: —. (in progress)

2. Rolando Trujillo Rasúa, “RFID Security and Privacy Protocols and Their Relation with Scalability”. Rovira i Virgili University, Doctoral Programme in Computer and Security Engineering. Date of public defense: (to be announced). Mark: —. Co-advisor with Josep Domingo-Ferrer. (in progress)
3. Pablo Alejandro Pérez Martínez, “Privacy Protocols for Location-Based Services”. Rovira i Virgili University, Doctoral Programme in Computer and Security Engineering. Date of public defense: (to be announced). Mark: —. (in progress)

8 Teaching and management activities

8.1 Master’s and Bachelor’s theses advised

1. [2009] Glòria Pujol, “Aplicacions a la privadesa del soroll aleatori basat en distàncies”. Rovira i Virgili University, Master in Computer and Security Engineering. *Co-advisor with Josep M. Mateo* (in progress)
2. [2009] Úrsula González-Nicolás, “Microagregació multivariant mitjançant algorismes genètics”. Rovira i Virgili University, Master in Computer and Security Engineering. (in progress)
3. [2009] Carles Gil, “Microagregació multivariant amb dades categòriques”. Rovira i Virgili University, Master in Computer and Security Engineering. (in progress)
4. [2009] Manuel Álvarez, “Control d’accés segur mitjançant RFID”. Rovira i Virgili University, Bachelor in Computer Systems Engineering. (in progress)
5. [2009] Raul de Benito, “Anàlisi de la interacció persona-ordinador en plurideficients”. Rovira i Virgili University, Bachelor in Computer Systems Engineering. *Co-advisor with César Mauri*. (in progress)
6. [2009] Ramón Migel, “BoxBackup: Sistema de còpia de seguretat remot”, Rovira i Virgili University, Bachelor in Computer Systems Engineering. *Co-advisor with David Manyé*. (in progress)
7. [2009] Rolando Trujillo, “Scalability in Private RFID Systems”. Rovira i Virgili University, Master in Computer and Security Engineering. *Co-advisor with Josep Domingo*.
8. [2009] Albert Fernández, “Estudi de la privadesa dels sistemes basats en RFID”. Rovira i Virgili University, Master in Computer and Security Engineering. *Co-advisor with Jordi Castellà-Roca*.
9. [2009] Carlos Saura, “Sistema de marcatge d’àudio robust a la veu en off”. Rovira i Virgili University, Master in Computer and Security Engineering. *Co-advisor with Antoni Martínez*.
10. [2009] Pablo A. Pérez, “Privacy in Location-Based Services ”. Rovira i Virgili University, Master in Computer and Security Engineering.
11. [2009] Raül Miró, “Mecanismes de recollida i anonimització de dades procedents del seguiment de turistes”. Rovira i Virgili University, Master in Computer and Security Engineering. *Co-advisor with Antoni Martínez*
12. [2009] Rafael Gasca, “Estudi de l’agrupabilitat en conjunts de dades numèriques”. Rovira i Virgili University, Master in Computer and Security Engineering.
13. [2009] Cristina Roig, “Escriptura per selecció direccional a través de teclat en pantalla”. Rovira i Virgili University, Bachelor in Computer Systems Engineering. *Co-advisor with César Mauri*.

14. [2008] Daniel Álvarez, “Simulador de protocols segurs en entorns RFID - Part 1”. Rovira i Virgili University, Master in Computer and Security Engineering. *Co-advisor with Antoni Martínez.*
15. [2008] Miquel Clariana, “Simulador de protocols segurs en entorns RFID - Part 2”. Rovira i Virgili University, Master in Computer and Security Engineering. *Co-advisor with Antoni Martínez.*
16. [2008] Jenny Bermúdez, “Gestió documental corporativa amb múltiples usuaris via web”. Rovira i Virgili University, Bachelor in Telematics. *Co-advisor with Jordi Castellà-Roca.*
17. [2007] Jordi Aragonés, “Estat de l’art en la seguretat i privadesa en els RFIDs”. Rovira i Virgili University, Master in Computer and Security Engineering. *Co-advisor with Antoni Martínez.*
18. [2007] Gloria Pujol, “Estudi de la millora de la microagregació amb post-processat”. Rovira i Virgili University, Bachelor in Computer Systems Engineering.
19. [2007] Rafeal Gasca, “Simulador de protocol escalable per a RFID”. Rovira i Virgili University, Bachelor in Computer Systems Engineering.
20. [2007] Úrsula González-Nicolás, “Estudi d’un algorisme evolutiu: Maximització de funcions complexes”. Rovira i Virgili University, Bachelor in Computer Systems Engineering.
21. [2006] Julia Sigles, “Disseny d’un sistema de seguretat per a la llar basat en càmeres IP”. Rovira i Virgili University, Bachelor in Telematics. *Co-advisor with Antoni Martínez.*
22. [2006] Meritxell Figueres, “Protecció de la propietat intel·lectual amb marques d’aigua”. Rovira i Virgili University, Bachelor in Computer Systems Engineering.
23. [2006] César Pomerol, “Anàlisi, estudi i implementació d’un IDS”. Rovira i Virgili University, Bachelor in Computer Systems Engineering.

8.2 Subjects taught

1. **“Data management for enterprises: SQL and Oracle”**. Rovira i Virgili University. Post-graduate course on Information Systems. Years 2008/2009.
2. **“Telematics’ Architectures”**. Universitat Rovira i Virgili. Bachelor in Telematics Engineering. Years 2008/2009 and 2009/2010.
3. **“Laboratories of Telematics’ Architectures”**. Universitat Rovira i Virgili. Bachelor in Telematics Engineering. Years 2008/2009 and 2009/2010.
4. **“Cryptology”**. Universitat Rovira i Virgili. Master in Computer and Security Engineering. Years 2006/2007, 2008/2009 and 2009/2010.
5. **“E-Commerce”**. Universitat Rovira i Virgili. Master in Computer and Security Engineering. Years 2005/2006, 2006/2007, 2007/2008, 2008/2009 and 2009/2010.
6. **“Foundations of Telematics”**. Universitat Rovira i Virgili. Bachelor in Telematics Engineering. Years 2004/2005, and 2005/2006.
7. **Computers’ Architecture** Universitat Rovira i Virgili. Bachelor in Computers Systems Engineering. Years 2004/2005, and 2005/2006.

8.3 Management positions at the university

1. Member of the School of Engineering Assembly. Universitat Rovira i Virgili. Years 2009/2010

9 Competitively funded research projects

9.1 Spanish Projects

1. “ARES: team for Advanced REsearch on information Security and privacy”. CONSOLIDER IN-GENIO 2010, Ref. no. CSD2007-00004. 2007-2012. Research participant. Total budget: 5.5 million Euro. URV budget: 1.27 million Euro.
2. “E-AEGIS: Electronic AEGis for conciliating consumer privacy and transaction security in the Information Society” (Ministerio de Educación y Ciencia, TSI2007-65406-C03, Axis C, five-year project). 2007-2012. Participant of the project. Specially working on the subproject TSI2007-65406-C03-01 “E-AEGIS/M-PRIVACY”.
3. “PROPRIETAS: Protección de la propiedad intelectual y privacidad en multicast sobre redes móviles ad-hoc” (Ministerio de Educación y Ciencia, SEG2004-04352-C04). 2005/2007. Participant of the project. Specially working on the subproject SEG2004-04352-C04-01.
4. “Advanced Observers Multi-agent system for the analysis and scene recognition of adverse environments.” (Ministerio de Educación y Ciencia, DPI2001-2094-C03-02. 2003/04). Participant of the project.

9.2 Catalan Projects

1. Grant to CRISES-Comerç Electrònic Segur (grant to consolidated research groups, Generalitat de Catalunya, 2009 SGR 1135). 2005/2009. Member of the group.
2. Grant to CRISES-Comerç Electrònic Segur (grant to consolidated research groups, Generalitat de Catalunya, 2005 SGR 00446). 2005/2009. The maximum per-group funding awarded in this call was obtained. Member of the group.
3. “Security, coding and transportation of information” (thematic network, Generalitat de Catalunya, 2003 XT 00074). 2004/2005. Participant.

10 Academic activities

10.1 Conference Organisation

10.1.1 General or programme committee chair

1. Program Chair of the Session on Computational Intelligence for Privacy and Security (CIPS) 2010 in conjunction with the World Conference on Computational Intelligence (WCCI) 2010. Barcelona. Spain. July 2010.
2. Program Co-Chairman of RECSI 2010 - 11a. Reunión Española de Criptología y Seguridad de la Información, Tarragona, Catalonia, September 2010.
3. General Co-Chair of PSAI 2010 - III Workshop on Privacy and Security by means of Artificial Intelligence. In conjunction with ARES 2010, Krakow. Poland. February 2010.
4. General Co-Chair of PSAI 2009 - II Workshop on Privacy and Security by means of Artificial Intelligence. In conjunction with ARES 2009, Fukoka. Japan. March 2009.
5. General Co-Chair of PSAI 2008 - I Workshop on Privacy and Security by means of Artificial Intelligence. In conjunction with ARES 2008, Barcelona. Spain. March 2008.

10.1.2 Programme committee member, track chair, organisation committee member or discussant

1. Member of the programme committee of the International Joint Conference on Neural Networks - IJCNN 2010. Barcelona. Spain. July 2010.
2. Member of the programme committee of the Workshop of RFID Security - RFIDSec 2010. Istanbul. Turkey. June 2010.
3. Member of the organisation committee of PSD 2010 - Privacy in Statistical Databases. Corfu. Greece. September 2010.
4. Member of the programme Committee of IAENG - World Congress on Engineering 2010. London. United Kingdom. July 2010.
5. Member of the programme Committee of AINA'2010 - Advance Information Networking and Applications. Perth. Australia. April 2010.
6. Member of the programme Committee of IFIP NTMS'2009 - New Technologies, Mobility and Security. Cairo. Egypt. December 2009.
7. Member of the programme Committee of IEEE ICEBE'2009 - Int. Conference on e-Business Engineering. Macau. China. October 2009.
8. Invited discussant at TECNODICAT'09 - Workshop on Technology applied to disabled people. Barcelona. Catalonia. Spain. October 2009. Technologies, Mobility and Security. Cairo. Egypt. December 2009.
9. Member of the programme Committee of IAENG - World Congress on Engineering 2009. London. United Kingdom. July 2009.
10. Member of the programme Committee of IAENG - World Congress on Engineering 2008. London. United Kingdom. July 2008.
11. Member of the organisation committee of MDAI 2006 - Modelling Decisions for Artificial Intelligence. Tarragona. Catalonia. Spain. April 2006.

10.2 Journal Editorship and refereeing

10.2.1 Associate editor, assistant editor or editorial board member in journals

1. Assistant editor of the IEEE GOLDRush (*from 2008*)
2. Member of the editorial board of the Journal on Recent Patents on Electrical Engineering. ISSN: 1874-4761 <http://www.bentham.org/eeng/>

10.2.2 Journal refereeing

1. IET Journal on Science, Measurement & Technology - ISSN: 1751-8822
2. Information Fusion - ISSN: 1566-2535
3. International Journal of Computers and Applications - ISSN: 1206-212X
4. Journal of Official Statistics - ISSN: 0282-423X
5. Soft Computing - ISSN: 1432-7643
6. Software: Practice and Experience - ISSN: 0038-0644

10.3 Positions in societies

1. Institute of Electrical and Electronic Engineers (IEEE)
 - Member of the Spanish Section (Board of Directors)
 - Member of the Computer Society
 - Member of the Computational Intelligence Society
 - Member of the Communications Society
 - Member of the IEEE GOLD
 - Former member of the Robotics and Automation Society
2. Association for Computing Machinery (ACM)
3. Sigma Xi research society
4. International Association for Cryptologic Research (IACR)
5. Catalan Association for Artificial Intelligence (ACIA)

11 Publications

11.1 Books as editor

1. A. Solanas and A. Martínez-Ballesté. (eds.) *Advances in Artificial Intelligence for Privacy Protection and Security*. Intelligent Information Systems. Vol. 1. World Scientific Publishing. 2010. ISBN: 978-981-279-032-3. 404 pp.

11.2 Book chapters

1. A. Martínez-Ballesté and A. Solanas *Advances in Artificial Intelligence for Data Privacy and Security*, chapter: An Introduction to Privacy Aspects of Information and Communication Technologies. 2010. Series on Intelligent Information Systems. Vol. 1. World Scientific Publishing. ISBN: 978-981-279-032-3.
2. A. Solanas and A. Martínez-Ballesté *Advances in Artificial Intelligence for Data Privacy and Security*, chapter: Introduction. 2010. Series on Intelligent Information Systems. Vol. 1. World Scientific Publishing. ISBN: 978-981-279-032-3.
3. A. Solanas. *Success in Evolutionary Computation*, chapter: Privacy Protection with Genetic Algorithms. 2008 Series in Studies in Computational Intelligence Springer-Verlag Berlin. ISBN: 978-3-540-76285-0.
4. C. Mauri, A. Solanas, and T. Granollers. *Engineering the user interface: from research to practice (M. Redondo, C. Bravo and M. Ortega (ed.))*, chapter: Towards the Introduction of Accessibility Resources in Public Telecentres. 2008. Springer-Verlag London. ISBN: 978-1-84800-135-0.
5. A. Solanas and J. Manjón. *RFID Security: Techniques, Protocols and System-On-Chip Design (Paris Kitsos and Yan Zhang (ed.))*, chapter: RFID Readers Deployment for Scalable Identification of Private Tags. 2008. Springer-Verlag. ISBN: 978-0-38776-480-1.

11.3 Articles in ISI JCR Journals

- 2010

1. L. Zhang, Q. Wu, A. Solanas and J. Domingo-Ferrer. A Scalable Robust Authentication Protocol For Secure Vehicular Communications. *IEEE Transactions on Vehicular Technology*, **(to appear 2010)**. IEEE. ISSN: 0018-9545.
 - *IF: 1.308 (JCR 2008)*
 - *Position: 90/229 Engineering – Electrical and Electronic - Q2*
 - *Position: 17/67 Telecommunications - Q2*
 - *Position: 7/23 Transportation Science and Technology - Q2*
2. J.M. Mateo-Sanz, A. Solanas, D. Puigjaner and C. Olivé. Refining Statistical Problems: A Hybrid Problem-Based Learning Methodology to Improve Students Motivation. *International Journal of Engineering Education*, **(to appear 2010)**. Tempus publications. ISSN: 0949-149X.
 - *IF: 0.552 (JCR 2008)*
 - *Position: 17/24 Education – Scientific Disciplines - Q3*
 - *Position: 42/67 Engineering – Multidisciplinary - Q3*
3. D. Rebollo, J. Forné, A. Solanas and T. Martínez-Ballesté. Private Location-Based Information Retrieval through User Collaboration. *Computer Communications*, **(to appear 2010)**. Elsevier. ISSN: 0140-3664.
 - *IF: 0.884 (JCR 2008)*
 - *Position: 65/92 Computer Science – Information Systems - Q3*
 - *Position: 130/229 Engineering – Electrical and Electronic - Q3*
 - *Position: 32/67 Telecommunications - Q2*

- 2009

4. Agusti Solanas. Pay for Editorial Independence (letter). *Communications of the ACM*, 52(11): 6, 2009. ACM. ISSN: 0001-0782.
 - *IF: 2.646 (JCR 2008)*
 - *Position: 6/45 Computer Science – Hardware & Architecture - Q1*
 - *Position: 5/86 Computer Science – Software Engineering - Q1*
 - *Position: 8/85 Computer Science – Theory & Methods - Q1*
5. J. Domingo-Ferrer, A. Solanas and J. Castellà-Roca. h(k)-Private Information Retrieval from Privacy-Uncooperative Queryable Databases. *Online Information Review*, 33(4): 720 – 744, 2009. Emerald. ISSN: 1468-4527.
 - *IF: 1.103 (JCR 2008)*
 - *Position: 52/99 Computer Science – Information Systems - Q3*
6. J. Domingo-Ferrer and A. Solanas. Erratum to “A measure of variance for hierarchical nominal attributes” *Information Sciences* 179(20):3732, 2009. Elsevier. ISSN: 0020-0255. doi:10.1016/j.ins.2009.06.019
 - *IF: 3.095 (JCR 2008)*
 - *Position: 8/99 Computer Science – Information Systems - Q1*

- 2008

7. J. Domingo-Ferrer and A. Solanas. A Measure of Variance for Hierarchical Nominal Attributes. *Information Sciences*, 178(24): 4644–4655, 2008. Elsevier. ISSN: 0020-0255.
doi:10.1016/j.ins.2008.08.003
- IF: 3.095 (JCR 2008)
- Position: 8/99 Computer Science – Information Systems - Q1
 8. A. Solanas and A. Martínez-Ballesté. A TTP-Free Protocol for Location Privacy in Location-Based Services. *Computer Communications*, 31(6):1181 – 1191, 2008. Elsevier. ISSN: 0140-3664.
- IF: 0.884 (JCR 2008)
- Position: 65/92 Computer Science – Information Systems - Q3
- Position: 130/229 Electrical and Electronic Engineering - Q3
- Position: 32/67 Telecommunications - Q2
 9. J. Domingo-Ferrer, F. Sebé, and A. Solanas. A polynomial-time approximation to optimal multivariate micro-aggregation. *Computers & Mathematics with Applications*, 55(4): 714 – 732, February 2008. Elsevier. ISSN: 0898-1221.
- IF: 0.997 (JCR 2008)
- Position: 55/94 Computer Science – Interdisciplinary Applications - Q3
- Position: 54/175 Applied Mathematics - Q2
- 2007
 10. A. Solanas, A. Martínez-Ballesté, J. Domingo-Ferrer, and V. Daza. A distributed architecture for scalable private RFID tag identification. *Computer Networks*, 51(9):2268 – 2279, June 2007. (1) Advances in Smart Cards and (2) Topics in Wireless Broadband Systems. Elsevier. ISSN: 1389-1286.
- IF: 0.829 (JCR 2007)
- Position: 46/92 Computer Science – Information Systems - Q3
- Position: 22/45 Computer Science – Hardware and Architecture - Q2
- Position: 107/227 Electrical and Electronic Engineering - Q2
- Position: 25/66 Telecommunications - Q2
 - 2005
 11. F. Sebé, , J. Domingo-Ferrer, and A. Solanas. Noise-robust watermarking for numerical data sets. *Lecture Notes in Computer Science*, Modelling Decisions for Artificial Intelligence-MDAI(3558):134–143, April 2005. Springer-Verlag Berlin. ISSN: 0302-9743.
- IF: 0.402 (JCR 2005)
- Position: 62/71 Computer Science – Theory and Methods - Q4
 - 2004
 12. M.A. Garcia and A. Solanas. Automatic distance measurement and material characterisation with infrared sensor. *Lecture Notes in Computer Science*, RoboCup 2004: Robot Soccer World Cup VIII(3276):451–458, March 2004. Springer-Verlag Berlin. ISSN: 0302-9743.
- IF: 0.513 (JCR 2004)
- Position: 53/70 Computer Science – Theory and Methods - Q4

11.4 Articles in non-ISI JCR Journals

11.4.1 ACM Computing Reviews Articles

- 2010

1. A.Solanas. Critical review of the book: Bennett C. “The privacy advocates : resisting the spread of surveillance”, CR136499, In *Computing reviews, February 2009*. ACM. ISSN: 1530-6585. (on-line edition) In *Computing reviews, January 2010*. ACM. ISSN: 0010-4884. (print edition)

- 2009

2. A.Solanas. Critical review of the book: Traynor P., McDaniel P., Porta T., “Security for telecommunications networks (1st ed.)”, CR136416, In *Computing reviews, January 2009*. ACM. ISSN: 1530-6585. (on-line edition) In *Computing reviews, December 2009*. ACM. ISSN: 0010-4884. (print edition)
3. A.Solanas. Critical review of the paper: Hsiao H., Lin C., Chang S. “Constructing an ARP attack detection system with SNMP traffic data mining”, CR137390, In *Computing reviews, October 2009*. ACM. ISSN: 1530-6585. (on-line edition)
4. A.Solanas. Critical review of the paper: Michael B., Voas J., Laplante P. “Cyberpandemics: history, inevitability, response”, CR137271, In *Computing reviews, September 2009*. ACM. ISSN: 1530-6585. (on-line edition)
5. A.Solanas. Critical review of the paper: Aycock J., Crawford H., deGraaf R. “Spamulator: the Internet on a laptop”, CR135968 (0910-0993), In *Computing reviews, August 2008*. ACM. ISSN: 1530-6585. (on-line edition) In *Computing reviews, October 2009*. ACM. ISSN: 0010-4884. (print edition)
6. A.Solanas. Critical review of the paper: Cho E., Moon C., Im H., Baik D. “An anonymous communication model for privacy-enhanced location based service using an echo agent”, CR136891, In *Computing reviews, June 2009*. ACM. ISSN: 1530-6585.
7. A.Solanas. Critical review of the book: Ning P., Du W. “Security of ad-hoc and sensor networks: book edition of Journal of Computer Security”, CR136853, In *Computing reviews, May 2009*. ACM. ISSN: 1530-6585.

- 2008

8. A.Solanas. Critical review of the paper: Dunne C., Candebat T., Gray D. “A frequency based sighting blurring algorithm for use with location based services on the internet”, CR136246, In *Computing reviews, November 2008*. ACM. ISSN: 1530-6585.

11.4.2 Springer Lecture Notes

- 2009

1. A. Solanas, A. Galvaldà and R. Rallo. Micro-SOM: A Linear-Time Multivariate Microaggregation Algorithm Based on Self-Organizing Maps, In *Lecture Notes in Computer Science, Artificial Neural Networks – ICANN 2009*, 525–535. doi: http://dx.doi.org/10.1007/978-3-642-04274-4_55 Springer-Verlag Berlin. ISSN: 0302-9743.
2. C. Mauri, A. Solanas, T. Granollers, J. Bagés and M. García. Interactive Therapeutic Multi-Sensory Environment for Cerebral Palsy People, In *Lecture Notes in Computer Science, Interact'2009(2)*, 696–699. doi: http://dx.doi.org/10.1007/978-3-642-03658-3_74 Springer-Verlag Berlin. ISSN: 0302-9743.

- 2008

3. A.Solanas and Roberto Di Pietro. A Linear-Time Multivariate Micro-aggregation for Privacy Protection in Uniform Very Large Data Sets. In *Lecture Notes in Artificial Intelligence, Modelling Decisions for Artificial Intelligence*,MDAI (5285):203-214, October 2008. Springer-Verlag Berlin. ISSN: 0302-9743.
4. J. Domingo-Ferrer, F. Sebe and A.Solanas. An anonymity model achievable via microaggregation. In *Lecture Notes in Computer Science, Secure Data Management, SDM* (5159):209-218, August 2008. Springer-Verlag Berlin. ISSN: 0302-9743.

- 2007

5. A. Solanas and A. Martínez-Ballesté. Privacy protection in location-based services through a public-key privacy homomorphism. *Lecture Notes in Computer Science, 4th European PKI Workshop, EuroPKI07*(4582):362 – 368, June 2007. Springer-Verlag Berlin. ISSN: 0302-9743.

- 2006

6. A. Solanas and J. Domingo-Ferrer. Watermarking non-numerical databases. *Lecture Notes in Computer Science, Modelling Decisions for Artificial Intelligence-MDAI*(3885):239–250, April 2006. Springer-Verlag Berlin. ISSN: 0302-9743.

11.4.3 Others

- 2008

1. A. Solanas and J. Castellà-Roca. RFID technology for the health care sector. *Recent Patents on Electrical Engineering*, 1(1): 22 – 31, January 2008. Bentham Science Publishers. ISSN: 1874-4761. *Inaugural Issue*

11.5 Articles in Proceedings with ISBN

- 2009

1. C. Mauri, A. Solanas, T. Granollers, N. Parés, J. Bagés and M. García. Entorno Activo Multimodal para Personas con Parálisis Cerebral. In *Proceedings of the IV Jornadas Iberoamericanas de Tecnologías de Apoyo a la Discapacidad.*, pages 35 – 44. Madrid, Spain, 26 - 27 October, 2009.
2. P. A. Pérez-Martínez and A. Solanas. Location Privacy Through Users' Collaboration: A Distributed Pseudonymizer. In *Proceedings of the Third International Conference on Mobile Ubiquitous Computing, Systems, Services and Technologies. UBICOMM 2009*, pages 338 – 341. Sliema, Malta, 11 - 16 October, 2009.
3. D. Rebollo-Monedero, J. Forné, L. Subirats, A. Solanas and A. Martínez-Ballesté. A collaborative protocol for private retrieval of location-based information. In *Proceedings of the IADIS International Conference e-Society*, pages 19 – 26. Barcelona, Spain, 25 - 28 February, 2009.

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4. A. Solanas, J. Domingo-Ferrer and A. Martínez-Ballesté. Location Privacy in Location-Based Services: Beyond TTP-based Schemes In *Proceedings of the 1st International Workshop on Privacy in Location-Based Applications (PILBA)*, pages 12–23. ISSN: 1613-0073. Màlaga, Spain, October 9, 2008. <http://sunsite.informatik.rwth-aachen.de/Publications/CEUR-WS/Vol-397/>
5. J. M. Mateo-Sanz, C. Olive, D. Puigjaner and A. Solanas. (In Spanish) Una nueva metodología docente para la enseñanza-aprendizaje en entornos virtuales: el caso de la Estadística. In *V International Congress in University Teaching and Innovation (CIDUI)*, CD-proceedings. Lleida, Spain, 2-4 July, 2008.
6. M. Gheorghitas, A. Solanas and J. Forné. Location Privacy in Chain-Based Protocols for Location-Based Services. In *The Third International Conference on Digital Telecommunications*, pages 64 – 69, Bucarest, Romania, June 29 - July 5, 2008.
7. F. Sebe, J. Domingo-Ferrer and A. Solanas. (In Spanish) Un nuevo modelo de anonimato para microdatos. In *VI Jornadas de Matemática Discreta y Algorítmica*, pages 543–550. Lleida, Spain, 21-23 Julio 2008.
8. G. Pujol, A. Martinez-Balleste, J.M. Mateo-Sanz and A. Solanas. (In Spanish) Postprocesado para Microagregacion Multivariante: un Estudio con Datos Reales. In *Reunión Española sobre Criptología y Seguridad de la Información (RECSI)*, pages 569–575. Salamanca, Spain, 2 - 5 September 2008.
9. U. Gonzalez-Nicolas Gambin and A. Solanas. (In Spanish) Proteccion de la Privacidad mediante Microagregacion Multivariante basada en Algoritmos Geneticos: Seleccion por Ruleta vs. Seleccion Uniforme. In *Reunión Española sobre Criptología y Seguridad de la Información (RECSI)*, pages 237–247. Salamanca, Spain, 2 - 5 September 2008.
10. A. Solanas, G. Pujol, A.Martínez-Ballestè, J. M. Mateo-Sanz. A Post-processing Method to Lessen k-Anonymity Dissimilarities. In *1st International Workshop on Workshop on Privacy and Security by means of Artificial Intelligence (PSAI). The Third International Conference on Availability, Reliability and Security (ARES)*, pages 1060 – 1066, Barcelona, Spain, 4 - 7 March 2008.
11. A. Solanas, F. Sebé and Josep Domingo-Ferrer. Micro-aggregation-Based Heuristics for p-sensitive k-anonymity: One Step Beyond. In *1st International Workshop on Privacy and Anonymity in the Information Society (PAIS). 11th International Conference on Extending Database Technology (EDTB)*, Nantes, France, 25 - 30 March 2008. ISBN 978-1-59593-926-5.

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12. J. Domingo-Ferrer, F. Sebé and A. Solanas. Microaggregation heuristics for p-sensitive k-anonymity. In *UNECE/EUROSTAT Work session on statistical data confidentiality*, Manchester, UK, 17 - 19 December 2007. <http://www.unece.org/stats/documents/2007.12.confidentiality.htm>

13. A. Martínez-Ballesté and A. Solanas. Privacy in the information and communication technologies. In *IEEE Granular Computing 2007*, pages 775 – 780, Silicon Valley, USA, 2 - 4 November 2007. ISBN: 0-7695-3032-X
 14. A. Solanas. A study of convex hulls intersection in clustering with cardinality constraints. In *XXX National Conference on Statistics and Operational Research*, pages 159, Valladolid, Spain, 25 - 28 September 2007.
 15. J. Aragonés, A. Martínez-Ballesté, and A. Solanas. A brief survey on RFID privacy and security. In *World Congress on Engineering WCE07*, Vol. 2, pages 1488 – 1493, London, United Kingdom, 2 - 4 July 2007. ISBN: 978-988-98671-2-6.
 16. C. Mauri, T. Granollers, and A. Solanas. On the assessment of the interaction quality of users with cerebral palsy. In *The Second International Conference on Availability, Reliability and Security*, pages 799 – 805. Vienna University of Technology, IEEE, 10 - 13 April 2007. ISBN: 0-7695-2775-2.
 17. A. Martínez-Ballesté, A. Solanas, J. Domingo-Ferrer, and J. M. Mateo-Sanz. A genetic approach to multivariate micro-aggregation for data privacy. In *23rd International Conference on Data Engineering (ICDE)*, volume Third International Workshop on Privacy Data Management, pages 180 – 185, Istanbul, Turkey, 15 - 20 April 2007. Computer Society, IEEE. ISBN: 1-4244-0832-6.
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 18. A. Martínez-Ballesté, J. Domingo-Ferrer, and A. Solanas. (in Spanish) Competencias para el investigador en el marco del EEES: La asignatura de introducción a la investigación. In *XIV Congreso Universitario de Innovación Educativa en las Enseñanzas Técnicas CUIEET*, (CDROM), Gijón, Spain, 27 - 29 September 2006. ISBN 84-8317-569-X.
 19. C. Mauri, T. Granollers, J. Lorés, and A. Solanas. (in Spanish) Estudio de la interacción de personas con parálisis cerebral. In *Interacción 2006*, pages 175 – 184, Puerto Llano, Spain, 13 - 17 November 2006. ISBN: 84-690-1613-X.
 20. A. Solanas, A. Martínez-Ballesté, J. Domingo-Ferrer, and S. Bujalance. (in Spanish) Privacidad en bases de datos: k-anonimato a través de la microagregación. In *Reunión Española sobre Criptología y Seguridad de la Información (RECSI)*, pages 539 – 547, Barcelona, Spain, 7 - 9 September 2006. ISBN: 84-9788-502-3.
 21. A. Solanas, A. Martínez-Ballesté, J. M. Mateo-Sanz, and J. Domingo-Ferrer. Multivariate micro-aggregation based on genetic algorithms. In *3rd IEEE Conference on Intelligent Systems (IEEE IS 2006)*, pages 65 – 70, London, United Kingdom, 4 - 6 September 2006. ISBN: 1-4244-0196-8.
 22. A. Solanas and A. Martínez-Ballesté. V-MDAV: A multivariate micro-aggregation with variable group size. In *Proceedings in Computational Statistics, 17th Conference of IASC-ERS (COMPSTAT)*, pages 917 – 925, Rome, Italy, 28 August - 1 September 2006. Physica-Verlag. ISBN: 3-7908-1708-2.

23. A. Solanas. (in Spanish) La k-agrupabilidad: Un nuevo método para distinguir conjuntos agrupados y dispersos. In *XXIX Congreso Nacional de Estadística e Investigación Operativa*, pages 225–226, Tenerife, Spain, 15 - 19 May 2006. ISBN: 84-689-8553-8.
 24. J. M. Mateo-Sanz, A. Solanas, and J. Domingo-Ferrer. (in Spanish) Posprocesado sobre microagregación multivariante: un enfoque con grupos de cardinalidad variable. In *XXIX Congreso Nacional de Estadística e Investigación Operativa*, pages 381–382, Tenerife, Spain, 15 - 19 May 2006. ISBN: 84-689-8553-8.
 25. J. Domingo-Ferrer and A. Solanas and A. Martínez-Ballesté. Privacy in statistical databases: k-anonymity through micro-aggregation. In Yan-Qing Zhang and Tsau Young Lin, editors, *IEEE International Conference on Granular Computing 2006*, pages 774 – 777, Atlanta, USA, 10 - 12 May 2006. IEEE. ISBN: 1-4244-0134-8.
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 27. A. Solanas, E. Romero, S. Gómez, J. M. Sopena, R. Alquézar, and J. Domingo-Ferrer. Feature selection and outliers detection with genetic algorithms and neural networks. In Beatriz López, Joaquim Meléndez, Petia Radeva, and Jordi Vitrià, editors, *VIII Congrés Català d'Intel·ligència Artificial*, volume Artificial Intelligence Research and Development of *Frontiers in Artificial Intelligence and Applications*, pages 41 – 48, Alghero, Italy, 26-28 October 2005. IOS Press. ISBN: 1-58603-560-6.
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 29. A. Solanas, J. Domingo-Ferrer, F. Sebé, and S. Bujalance. (in Spanish) Un nuevo sistema de marca de agua para bases dedatos numéricas. In Apolonia Martínez and Josep Lluís Ferrer, editors, *III Simposio Español de Comercio Electrónico*, pages 165 – 176, Palma de Mallorca, Spain, 9-10 June 2005. ISBN: 84-7632-929-6. DL: PM 1259-2005.
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 30. A. Solanas and M.A.Garcia. Coordinated multi-robot exploration through unsupervised clustering of unknown space. In *IEEE/RSJ Int. Conf. on Intelligent Robots and Systems*, Vol. 1, pages 717 – 721, Sendai, Japan, 28 September - 2 October 2004. ISBN: 0-7803-8463-6
 31. M.A.Garcia and A.Solanas. Estimation of distance to planar surfaces and type of material with infrared sensors. In *17th IAPR Int. Conf. on Pattern Recognition*, Vol. 1, pages 745 – 748, Cambridge, United Kingdom, 23-26 August 2004. ISBN 0-7695-2128-2

32. M.A.Garcia and A.Solanas. 3D simultaneous localisation and modelling from stereo vision. In *IEEE Int. Conf. on Robotics and Automation*, Vol. 1, pages 847 – 853, New Orleans, LA, USA, 26 April - 1 May 2004. ISBN 0-7803-8232-3 (Softbound) - ISBN 0-7803-8233-1 (CD-ROM).

11.6 Invited talks and courses

1. A. Solanas, “Privacy in Location-Based Services for people with cognitive impairments”. Roundtable talk within TECNODISCAT 2009. Technical University of Catalonia. Barcelona. Spain. 15 October 2009.
2. A. Solanas, “Copyright protection in Databases”. Multidisciplinary conference on Security, Coding and Information Transport. University of Lleida. Lleida. Spain. 20 April 2005.
3. A. Solanas. “Robotics Today”, in 1st Conference on New Technologies. IES Baix Camp. Reus. Catalonia, Spain. 27 May 2004.