



Jordi Casas-Roma

Curriculum Vitae

Short Bio

He holds a Ph.D on Computer Science (Universitat Autònoma de Barcelona, UAB, 2014), Master degree on Advanced Artificial Intelligence (Universidad Nacional de Educación a Distancia, UNED, 2011) and Bachelor degree on Computer Science (Universitat Autònoma de Barcelona, UAB, 2002). From September 2009, he works as a lecturer at the Faculty of Computer Science, Multimedia and Telecommunications at Universitat Oberta de Catalunya (UOC) and also as a part-time associate professor at Universitat Autònoma de Barcelona (UAB) since September 2015. He is the director of the Master in Business Intelligence and Big Data at Universitat Oberta de Catalunya (UOC). His teaching activities mainly concentrate in big data, data mining, databases and graph theory. His main research scopes include privacy-preserving methods, data mining and big data. Since 2010, he belongs to the research group KISON (K-ryptography and Information Security for Open Networks) where he investigates the methods of anonymization in graph mining processes. He was visiting researcher at the Data Science and Mining (DaSciM) group at the Computer Science Laboratory (LIX) of École Polytechnique (Paris, France).

Current positions

- 2009–Present **Lecturer** at the Faculty of Computer Science, Multimedia and Telecommunications at UOC.
- 2015–Present **Part-time associate professor** at Universitat Autònoma de Barcelona (UAB).
- 2017–Present **Director** of the Master in Data Science at UOC.
- 2010–Present **Associate Researcher at KISON** (K-ryptography and Information Security for Open Networks).

Education

- 2012–2014 **Ph.D on Computer Science**, *Universitat Autònoma de Barcelona (UAB)*, Spain. Thesis: "*Privacy-preserving and data utility in graph mining*" awarded with *cum laude*. International Doctoral Research Component. Available here.
- 2007–2011 **M.S. Degree on Advanced Artificial Intelligence**, *Universidad Nacional de Educación a Distancia (UNED)*, Spain. *Master's thesis awarded with honours*. Available here (in Spanish).

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1997–2002 **B.S. Degree in Computer Science**, *Universitat Autònoma de Barcelona (UAB)*, Spain.

Past positions

2014–2014 **Visiting researcher** at the DATA SCIENCE AND MINING (DaSciM) group at the Computer Science Laboratory (LIX) of École Polytechnique (Paris, France) from March to June 2014.

2016–2017 **Director** of the Master in Business Intelligence and Big Data at UOC.

Publications

Journal papers (indexed in ISI-JCR)

- 2016 F. Rousseau, J. Casas-Roma and M. Vazirgiannis. “Community-Preserving Anonymization of Graphs”. *Knowledge and Information Systems (KAIS)*. First Online: 17 May 2017. doi:10.1007/s10115-017-1064-y (*In press*) (IF 2016: 2.004, Q2)
- 2016 J. Casas-Roma, J. Herrera-joancomartí and V. Torra. (2017). “A survey of graph-modication techniques for privacy-preserving on networks”. *Artificial Intelligence Review (AIRE)*, Vol 47(3), pp. 341–366. First Online: 31 May 2016. doi:10.1007/s10462-016-9484-8 (IF: 2.627, Q2)
- 2016 J. Casas-Roma, J. Herrera-joancomartí and V. Torra. (2017). “ k -Degree Anonymity And Edge Selection: Improving Data Utility In Large Networks”. *Knowledge and Information Systems (KAIS)*, Vol. 50(2), pp. 447–474. First Online: 27 April 2016. doi:10.1007/s10115-016-0947-7 (IF: 2.004, Q2)
- 2015 J. Casas-Roma, J. Herrera-joancomartí and V. Torra. (2015). “Anonymizing Graphs: Measuring Quality for Clustering”. *Knowledge and Information Systems (KAIS)*, Vol. 44(3), pp. 507–528. First Online: 06 August 2014. doi:10.1007/s10115-014-0774-7 (IF: 1.782, Q1)

Conferences and workshops

- 2016 I. Guitart, J. Conesa, J. Casas-Roma. “A Preliminary Study about the Analytic Maturity of Educational Organizations”. *Proceedings of the 2016 International Conference on Intelligent Networking and Collaborative Systems (INCoS)*, pp. 345–350. IEEE. doi:10.1109/INCoS.2016.53
- 2015 J. Casas-Roma (2015). “An Evaluation of Edge Modification Techniques for Privacy-Preserving on Graphs”. *Proceedings of the 12th International Conference on Modeling Decisions for Artificial Intelligence*, volume 9321 of *Lecture Notes in Computer Science*, pp. 180–191. Springer International Publishing. doi:10.1007/978-3-319-23240-9_15
- 2015 J. Casas-Roma and F. Rousseau (2015). “Community-preserving generalization of social networks”. *Proceedings of the 2015 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM '15)*, pp. 1465–1472, ACM. doi: 10.1145/2808797.2808854.

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- 2014 J. Casas-Roma (2014). "Privacy-Preserving on Networks using Randomization and Edge-Relevance". In V. Torra, Y. Narukawa and Y. Endo, editors, Proceedings of the 11th International Conference on Modeling Decisions for Artificial Intelligence, volume 8825 of Lecture Notes in Artificial Intelligence, pp. 204-216. Berlin, Heidelberg, 2014. Springer Berlin Heidelberg.
- 2014 Casado, C.; Casas-Roma, J.; Córcoles, C. P.; Minguillón, J.; Peña, I. (2014). "Analyzing Learner's Participation in a WordPress-based Personal Teaching Environment". In: The Personal Learning Environments Conference. Tallinn, Estonia.
- 2013 Casas-Roma, J., Herrera-Joancomartí, J., Torra, V. (2013). "Analyzing the Impact of Edge Modifications on Networks". In The 10th International Conference on Modeling Decisions for Artificial Intelligence (pp. 296–307). Barcelona: Springer-Verlag, doi:10.1007/978-3-642-41550-0_26
- 2013 Casas-Roma, J., Herrera-Joancomartí, J., Torra, V. (2013). "An Algorithm For k-Degree Anonymity On Large Networks". In The 2013 IEEE/ACM International Conference on Advances on Social Networks Analysis and Mining (pp. 671–675). Niagara Falls: IEEE, doi:10.1145/2492517.2492643
- 2012 Casas-Roma, J., Herrera-Joancomartí, J., Torra, V. (2012). "Comparing random-based and k-anonymity-based algorithms for graph anonymization". In the 9th International Conference on Modeling Decisions for Artificial Intelligence (pp. 197–209). Girona: Springer-Verlag. doi:10.1007/978-3-642-34620-0_19
- 2012 Casas-Roma, J., Herrera-Joancomartí, J., Torra, V. (2012). "Algoritmos genéticos para la anonimización de grafos". XII Reunión Española sobre Criptología y Seguridad de la Información (RECSI 2012) (pp. 243–248). Donostia-San Sebastián, Spain.

Book chapters

- 2014 J. Casas-Roma, J. Herrera-Joancomartí and V. Torra. "A Summary of k-Degree Anonymous Methods for Privacy-Preserving on Networks". In G. Navarro-Arribas and V. Torra, editors, Advanced Research in Data Privacy, volume 567 of Studies in Computational Intelligence, pp. 231-249. Berlin, Heidelberg, 2015. Springer Berlin Heidelberg. doi:10.1007/978-3-319-09885-2_13

Scientific papers and reports

- 2014 Casas-Roma, J., Herrera-Joancomartí, J., and Torra, V. (2014). "Privacy-preserving and data utility in graph mining". Universitat Autònoma de Barcelona (UAB). Available here.
- 2013 Casas-Roma, J., Herrera-Joancomartí, J., Torra, V. (2013). "Evolutionary Algorithm for Graph Anonymization", 6. Databases. Available <http://arxiv.org/abs/1310.0229>.
- 2011 Casas-Roma, J. (2011). "Preservacion de la privacidad en procesos de minería de datos basados en grafos". Universidad Nacional de Educación a Distancia (UNED). Available here (in Spanish).

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Teaching

Universitat Oberta de Catalunya (UOC)

2009–Present **Lecturer** at the Faculty of Computer Science, Multimedia and Telecommunications at UOC

Courses coordinated in the following areas:

- Big Data
- Data Mining and Machine Learning
- Databases
- Graph Theory

Universitat Autònoma de Barcelona (UAB)

2015–Present **Part-time associate professor** at UAB

Courses given:

- Information Assurance and Security (2015–Present)
- Supervisor of Bachelor's Computer Science Thesis (2015–Present)

Books

- 2017 Casas-Roma, J.; Romero, C. (2017). "Privacidad y anonimización de datos" (book in Spanish). Barcelona, Spain: Editorial UOC. (*in press*)
- 2017 Gironès, J.; Casas-Roma, J.; Minguillón, J; Caihuelas, R. (2017). "Minería de datos: modelos y algoritmos" (book in Spanish). Barcelona, Spain: Editorial UOC. (*in press*)
- 2016 Pérez-Solà, C.; Casas-Roma, J. (2016). "Análisis de datos de redes sociales" (book in Spanish). Barcelona, Spain: Editorial UOC. 182 pp. ISBN: 9788491163664.
- 2013 Casas-Roma, J., Conesa Caralt, J. (2013). "Diseño conceptual de bases de datos en UML" (book in Spanish). Barcelona, Spain: Editorial UOC. 152 pp. ISBN: 978-84-9029-769-8.

Book chapters

- 2016 Casas-Roma, J. (2016). "Análisis de redes" (book chapter in Spanish). Book: "Fundamentos de Data Science". Barcelona, Spain: Oberta UOC Publishing, SL.
- 2016 Casas-Roma, J. (2016). "Open Data: información de la ciudad en abierto" (book chapter in Spanish). Book: "Tecnologías de la Smart City". Barcelona, Spain: Oberta UOC Publishing, SL.
- 2016 Borrell Viader, J.; Casas Roma, J.; Garrigues, C.; Pérez Solà, C.; Perramon Tornil, X.; Rifà, H; Robles Martínez, S. (2016). "Seguridad y privacidad en las smart cities" (book chapter in Spanish). Book: "Tecnologías de la Smart City". Barcelona, Spain: Oberta UOC Publishing, SL.
- 2016 Casas-Roma, J.; Melià Seguí, J. (2016). "Big data, redes sociales e inteligencia contextual" (book chapter in Spanish). Book: "Herramientas para gestión smart de la ciudad". Barcelona, Spain: Oberta UOC Publishing, SL.

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- 2015 Casas-Roma, J. (2015). "Almacenamiento y explotación de datos en el comercio electrónico" (book chapter in Spanish). Book: "Tecnologías del comercio electrónico". Barcelona, Spain: Oberta UOC Publishing, SL.
- 2012 Casas-Roma, J. (2012). "Introducción al diseño de bases de datos" (book chapter in Spanish). Book: "Diseño de Bases de Datos". Barcelona, Spain: Eureca Media, SL.
- 2012 Casas-Roma, J. (2012). "Diseño conceptual de bases de datos" (book chapter in Spanish). Book: "Diseño de Bases de Datos". Barcelona, Spain: Eureca Media, SL.
- 2012 Casas-Roma, J. (2012). "Diseño físico de bases de datos" (book chapter in Spanish). Book: "Diseño de Bases de Datos". Barcelona, Spain: Eureca Media, SL.
- 2004 Casas-Roma, J. (2004). "Modelos de diseño de las TIC" (book chapter in Spanish). Book: "Máster Internacional en e-Learning". Barcelona, Spain: Eureca Media, SL.

Program committee membership

- 2017 The 12th DPM International Workshop on Data Privacy Management (DPM '17).
- 2016 The 11th DPM International Workshop on Data Privacy Management (DPM '16).
- 2016 Social Media and Risk workshop (SoMeRis '16) held in conjunction with ICDM '16.
- 2015 The 10th DPM International Workshop on Data Privacy Management (DPM '15).
- 2015 Social Media and Risk workshop (SoMeRis '15) held in conjunction with ASONAM '16.