

Samer Hassan

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Areas of specialization

Decentralized Systems, Online Collaboration, Commons-based Peer Production, Agent-based Social Simulation

Areas of competence

Artificial Intelligence, Free/Libre/Open Source Software, Social Web, Computer Ethics & Law

Current position

- 2016–2017 **Fellow**, *Berkman Center for Internet and Society, Harvard University.*
- 2016–present **Associate Professor**, *Dpt. Software Engineering & Artificial Intelligence, Universidad Complutense de Madrid, Spain.*
- 2013–present **Principal Investigator**, *Universidad Complutense de Madrid team, FP7 P2Pvalue European project.*

Previous appointments

- 2011–2016 **Assistant Professor**, *Dpt. Software Engineering & Artificial Intelligence, Universidad Complutense de Madrid, Spain.*
- 2015–2016 **Fellow**, *Berkman Center for Internet and Society, Harvard University.*
- 2010–2011 **Lecturer**, *Dpt. of Computer Science, American University of Science & Technology, Lebanon.*
Teaching in MSc and BSc of Computer Science
- 2009–2011 **Lecturer**, *Dpt. Software Engineering & Artificial Intelligence, Universidad Complutense de Madrid, Spain.*
Online teaching
- 2007–2009 **Research fellow**, *Dpt. Software Engineering & Artificial Intelligence, Universidad Complutense de Madrid, Spain.*
- 2007–2008 **Visiting researcher**, *Centre for Research in Social Simulation, University of Surrey, Guildford (Surrey), United Kingdom.*
- 2006–2007 **Assistant Lecturer**, *Dpt. Software Engineering & Artificial Intelligence, Universidad Complutense de Madrid, Madrid, Spain.*
Teaching in BSc of Computer Science
- 2005–2006 **Research Assistant**, *Dpt. Software Engineering & Artificial Intelligence, Universidad Complutense de Madrid, Madrid, Spain.*

Education

- 2007–2009 **PhD in Computer Science (Distinction & European Mention)**, *Universidad Complutense de Madrid*, Spain.
Dissertation: *Towards a Data-driven Approach for Agent-Based Modelling: Simulating Spanish Postmodernisation*
- 2006–2007 **MSc in Artificial Intelligence (Distinction)**, *Universidad Complutense de Madrid*.
Dissertation: *Modelling & Simulation of Values Evolution in Human Societies using Software Agents*
- 2000–2006 **BSc/Eng in Computer Science**, *Universidad Complutense de Madrid*, Spain.
5 academic years engineering with final project
- 2001–2007 **120 ECTS credits of BSc in Political Science**, *Universidad Nacional de Educación a Distancia (UNED)*, Spain.
Equivalent to a 3-years degree.

Participation in Scientific Projects

Research Projects

- 2015–2017 ColosAAL: collaborative development of AAL solutions (TIN2014-57028-R), Ministry of Economy & Competitiveness, Spain.
- 2015–2016 Innovative Education Project: Methods of evaluation, maintenance and reuse of open-access educational wikis (PIMCD-UCM-2015-199), Universidad Complutense de Madrid, Spain
- 2015–2018 Fostering a Transition towards Responsible Research and Innovation Systems (FoTRRIS) (H2020-GARRI-2014-1 #665906), EU H2020 RIA, European Commission
- 2014–2015 European Researchers' Night in Madrid 2014-2015 (H2020-MSCA-NIGHT-2014 #633161), EU H2020 CSA, European Commission
- 2014–2015 Innovative Education Project: Implementation of open-access educational wikis with wide diversity of contents in English and Spanish (PIMCD-UCM-2014-368), Universidad Complutense de Madrid, Spain
- 2013–2016 **Principal Investigator** (UCM) in P2Pvalue: Techno-social platform for sustainable models and value generation in commons-based peer production in the Future Internet (GA #610961), EU FP7 STREP, European Commission
- 2012–2014 SociAAL: Social Ambient Assisting Living (TIN2011-28335-C02-01), Ministry of Science & Innovation, Spain.
- 2009–2011 Agent-based Modelling and Simulation of Complex Social Systems (SiCoSSys) (TIN2008-06464-C03-01), Ministry of Science & Innovation, Spain.
- 2009–2010 Network of Excellence on Business Information and Application Integration (TIN2008-04718-E), Ministry of Science & Innovation, Spain.
- 2005–2008 Methods and tools for the modeling of multi-agent systems (TIN2005-08501-C03-01), Ministry of Science & Technology, Spain.
- 2003–2006 Siacon: Information System and Control for Automobile Security, Automobile Research Institute of the Universidad Politécnica de Madrid (INSIA), Spain.

Research Groups Financing

- 2014–2015 Research Group on Applications of Multi-Agent Systems *Grasia* (GR3/14, Group 921354), Program for the Financing of Research Groups UCM-BSCH, Universidad Complutense de Madrid & Santander Bank.
- 2010–2011 Research Group on Applications of Multi-Agent Systems *Grasia* (GR35/10-A, Group 921354), Program for the Creation & Consolidation of Research Groups UCM-BSCH, Universidad Complutense de Madrid & Santander Bank.
- 2009–2010 Research Group on Applications of Multi-Agent Systems *Grasia* (GR58/08), Program for the Creation & Consolidation of Research Groups UCM-BSCH, Universidad Complutense de Madrid & Santander Bank.
- 2008–2010 Research Group on Applications of Multi-Agent Systems *Grasia* (GR74/07), Grupos UCM-Comunidad de Madrid CCG07-UCM/TIC-2765.2008, Autonomous Region of Madrid, Spain.

Awards, grants & fellowships

Awards & Acknowledgements

- 2015 **Acknowledgement: 1st Assistant Professor to be Principal Investigator of European FP7 project in the University**, *Universidad Complutense de Madrid*.
UCM is the 2nd largest non-distance university in Europe. Acknowledgement includes being the first to manage >300,000 Euro
- 2014 **Commission Recipient**, *Triple Canopy*, New York, United States, Project *Artonomous* with Primavera De Filippi.
- 2007 **Award “Excellence Youth”**, *Caja de Burgos Corp.*, Spain.
- 2006 **First prize in the Program of R&D of Madrid, 3rd competition for the creation of technology-based companies**, *Universidad Politecnica de Madrid*, Spain.

Fellowships

- 2016-17 **Fellow of the Berkman Center for Internet & Society**, *Harvard University*, USA.
- 2015-16 **Fellow of the Berkman Center for Internet & Society**, *Harvard University*, USA.
~5% acceptance rate: selected one of the 27 fellows 2015/16 from 100s of candidates
- 2015-16 **Jose Castillejo postdoctoral scholarship**, *Ministry of Science & Innovation*, Spain.
- 2015-16 **RCC Research Grant for Harvard University**, *Real Colegio Complutense of Harvard University*, USA.
- 2011 **Juan de la Cierva post-doc fellowship (declined)**, *Spanish Ministry of Science & Innovation*, Spain.
Declined after obtaining Assistant Professor position
- 2007–2009 **4-year fellowship for PhD**, *Universidad Complutense de Madrid*, Spain.
- 2008 **Fellowship for one-year visiting research in University of Surrey, UK**, *Mutua Madrileña Corp.*, Spain.
- 2007 **1-year Research Fellowship**, *Universidad Complutense de Madrid*, Spain.

Small Grants & Recognitions

- 2011-present **Positive evaluations from all courses taught**, *Universidad Complutense de Madrid*, Spain.
- 2016 **Grant for the Decentralized Web Summit 2016**, *Internet Archive*, San Francisco, United States.
- 2011 **Grant for the Contact Summit 2011**, *Contact*, New York, United States.
- 2010 **Grant for the Mozilla Drumbeat Festival 2010**, *Mozilla Corp*, United States.

- 2009 **Grant for the *Summer School on Computational Models of Political and Social Events***, *Lipari International School on Computational Social Sciences (University of Catania)*, Lipari, Italy.
- 2008 **Grant for the *Summer School on Modeling and Simulation for Young Scientists***, *International Workshop on Challenges and Visions in the Social Sciences*, *ETH*, Zurich, Switzerland.
- 2007 **Grant for the *Spring School on Software Agents***, *Universidad Politécnica de Valencia*, Valencia, Spain.
- 2007 **Grant for the conference of the Spanish Society for Artificial Intelligence**, *AEPIA*, Salamanca, Spain.

Visiting fellowships

- 2015–2016 **Berkman Center for Internet and Society**, *Harvard University*, Boston, USA.
Directed by Urs Gasser
- 2010–2011 **Dpt. of Computer Science**, *American University of Science and Technology*, Beirut, Lebanon.
Directed by Aziz Barbar
- 2007–2008 **Centre for Research in Social Simulation (CRESS)**, **Dpt. of Sociology**, *University of Surrey*, Guildford, United Kingdom.
Directed by Nigel Gilbert
- 2007 **Group of Studies in Social Simulation (GUESS)**, **Lab of Multi-Agent systems (LabMAg)**, *Universidade de Lisboa*, Lisboa, Portugal.
Directed by Luis Antunes

Social Engagement & Free/Libre/Open Source Projects

- 2012–today Grassroots Facilitator
Facilitator for multiple grassroots initiatives, accredited by Altekio Cooperative
- 2012–today Social Centre Tabacalera
Self-managed social centre Tabacalera in Madrid (Contributor)
- 2010–2013 Move Commons
Free/Open Source web-tool for initiatives (Co-founder)
- 2009–2010 One-Laptop-Per-Child (OLPC) Lebanon
(Collaborator)
- 2009–2011 Human Rights groups in Lebanon
(Collaborator)
- 2009–2013 Comunes Nonprofit
Free/Open Source web-tools for the Commons (Co-founder)
- 2009–2013 Sci-Fdi
Journal of Science-Fiction (Co-founder & editor)
- 2008–2009 Barrapunto (Spanish Slashdot)
(Moderator)
- 2008–2013 Kune
Free/Open Source collaborative platform (Contributor)
- 2007–today Wikipedia
>600 accepted edits (Editor)

Peer-reviewed Publications

Journal Articles with JCR Impact Factor

- 2013 Hassan, S., Arroyo, J., Galán, J.M., Antunes, L., Pavón, J. "Asking the Oracle: Introducing Forecasting Principles into Agent-Based Modelling". *Journal of Artificial Societies and Social Simulation* 16(3):13 (2013). ISSN 1460-7425. JCR (2012) = 0.713
- 2012 Fuentes-Fernández, R., Hassan, S., Pavón, J., Galán, J.M., López-Paredes, A. "Meta-models for Role-Driven Agent-Based Modelling". *Computational and Mathematical Organization Theory* 18(1):91–112 (2012). ISSN 1381-298X. JCR (2012) = 0.424
- 2011 Hassan, S., Salgado, M., Pavón, J. "Friendship Dynamics: Modelling Social Relationships Through a Fuzzy Agent-Based Simulation". *Discrete Dynamics in Nature and Society* vol. 2011, Article ID 765640, 19 pages, doi:10.1155/2011/765640 (2011). ISSN 1026-0226. JCR (2011) = 0.688
- 2011 Fuentes-Fernández, R., Galán, J.M., Hassan, S., Pavón, J., Villafañez F. A. "Meta-modelling for Agent-based Modelling. An Application for Posted Pricing Institutions". *Journal of Studies in Informatics and Control* 20(1):55–66 (2011). ISSN 1220-1766. JCR (2011) = 0.578
- 2010 Hassan, S., Antunes, L., Gilbert, N. "Going back home: Social Simulation and Artificial Intelligence". *Social Simulation from the Perspective of Artificial Intelligence, Computational and Mathematical Organization Theory* 16(4):325–328 (2010). ISSN 1381-298X. JCR (2010) = 0.583
- 2010 Arroyo, J., Hassan, S., Gutiérrez, C., Pavón, J. "Re-thinking Simulation: a methodological approach for the application of data mining in agent-based modelling". *Social Simulation from the Perspective of Artificial Intelligence, Computational and Mathematical Organization Theory* 16(4):416–435(2010). ISSN 1381-298X. JCR (2010) = 0.583
- 2008 Pavón, J., Arroyo, M., Hassan, S., Sansores, C. "Agent-based modelling and simulation for the analysis of social patterns". *Pattern Recognition Letters*, 29(8):1039–1048 (2008). ISSN 0167-8655. JCR(2008) = 1.559

Book Chapters

- 2016 Hassan, S. "Decentralization: Why Infrastructure Matters", in Mayo Fuster Morell (ed), *Procomuns: Policies and Technologies for a commons oriented collaborative economy*. UOC publications, Barcelona (Forthcoming)
- 2016 Ruiz, S., Hassan, S., Paricio, Ana. "Stories from a workshop on Feminist Collaborative Economy", in Mayo Fuster Morell (ed), *Procomuns: Policies and Technologies for a commons oriented collaborative economy*. UOC publications, Barcelona (Forthcoming)
- 2015 De Filippi, P., Hassan, S. "Measuring Value in Commons-based Ecosystem: bridging the gap between the Commons and the Market", in Lovink G., Tkacz N. (eds), *MoneyLab Reader, INC Reader* (9):74–91. Institute of Network Cultures, University of Warwick. (2015). ISBN 978-90-822345-5-8

- 2012 De la Cueva, J., Guerry, B., Hassan, S., Ruiz Jurado V.J. "Move Commons: Labelling, Opening and Connecting Social Initiatives". In Bollier, D., Helfrich, S. (Eds.), *The Wealth of the Commons: A World Beyond Market and State*, pp.319–322. Levellers Press (2012). ISBN 978-1-9371-4614-6
- 2012 De la Cueva, J., Guerry, B., Hassan, S., Ruiz Jurado V.J. "Move Commons: Labels für soziale Initiativen (Ein Vernetzungsinstrument)". In Helfrich, S., Heinrich-Böll-Stiftung (Eds.), *Commons. Für eine neue Politik jenseits von Markt und Staat*, pp. 385–390. Transcript-Verlag, Bielefeld (2012). ISBN 978-3-8376-2036-8
- 2011 Quesada, M., Hassan Collado, S. "La investigación mediante simulación social multi-agente". In Arroyo Menéndez, M., Sábada Rodríguez, I. (Eds.), *Metodología de la investigación social. Técnicas innovadoras y sus aplicaciones*, pp. 321–344. Síntesis, Madrid (2012). ISBN 978-8-497-56760-2
- 2010 Hassan, S., Pavón, J., Antunes, L., Gilbert, N. "Injecting data into Agent-Based simulation". In K. Takadama, G. Deffuant, C. Cioffi-Revilla (Eds.), *Simulating Interacting Agents and Social Phenomena: The Second World Congress*, Springer Series on Agent Based Social Systems, (7):179–191. Springer, Tokyo (2010). ISBN 978-4-431-99780-1

Journal Articles & Post-proceedings (without JCR Impact Factor)

- 2016 De Filippi, P., Hassan, S. "Blockchain Technology as a Regulatory Technology: From Code is Law to Law is Code". *First Monday*, 21(12) #7113-5657 (2016). ISSN 1396-0466
- 2016 Jacynycz, V., Calvo, A., Hassan, S., Sánchez-Ruiz, A. A. "Betfunding: A Distributed Bounty-Based Crowdfunding Platform over Ethereum". *Distributed Computing and Artificial Intelligence, 13th International Conference*, (474):403–411 (2016). Springer. ISSN 2194-5357
- 2015 Ojanguren-Menéndez, P., Tenorio-Fornés, A., Hassan, S. "Building Real-Time Collaborative Applications with a Federated Architecture". *International Journal of Artificial Intelligence and Interactive Multimedia*. 3(5):47-52. ISSN: 1989-1660
- 2015 Ojanguren-Menéndez, P., Tenorio-Fornés, A., Hassan, S. "Awakening Decentralized Real-time Collaboration: Re-engineering Apache Wave into a General-purpose Federated & Collaborative Platform". *Advances in Intelligent Systems and Soft-Computing*. 373: 369-376, Springer. ISSN: 2194-5357
- 2014 Tenorio-Fornés, T., Hassan, S. "Towards an Agent-supported Online Assembly: Prototyping a Collaborative Decision-Making Tool". In P. Lorenz, P. Dini (Eds.), *COLLA 2014: The Fourth International Conference on Advanced Collaborative Networks, Systems and Applications*. 72–77 (2014). ThinkMind. ISSN 2308-4227
- 2013 Guerry, B., Hassan, S., Rivière-Marichalar, P., Otros miembros del Colectivo Comunes.org. "About Comunes: desafíos del ecosistema de movimientos sociales". *Teknokultura*, 10(1):245–252 (2013). ISSN 1549-2230
- 2010 Hassan, S., Garmendia, L., Pavón, J. "Introducing uncertainty into social simulation: Using fuzzy logic for Agent-Based modelling". *International Journal: Reasoning-based Intelligent Systems*, 2(2):118–124 (2010). ISSN 1755-0556
- 2010 Fuentes-Fernández, R., Galán, J.M., Hassan, S., Pavón, J., Villafañez F. A. "Meta-modelling for Agent-based Modelling. An Application for continuous double auctions". *Balanced Automation Systems for Future Manufacturing Networks, IFIP Advances in Information and Communication Technology*, (322):285-292 (2010). Springer, ISSN 1868-4238

- 2010 Fuentes-Fernández, R., Galán, J.M., Hassan, S., López-Paredes, A., Pavón, J. "Application of Model Driven Techniques for Agent-Based Simulation". *Advances in Practical Applications of Agents and Multiagent Systems, Advances in Soft Computing*, Springer, (70):81–90 (2010). ISSN 1615-3871
- 2010 Hassan, S., Antunes, L., Pavón, J. "Mentat: A Data-Driven Agent-Based Simulation of Social Values Evolution". *Multi-Agent-Based Simulation X, Lecture Notes in Artificial Intelligence (from the Lecture Notes in Computer Science)*, Springer-Verlag (5683):135–146 (2010). ISSN 0302-9743
- 2009 Hassan, S., Antunes, L., Arroyo, M. "Deepening the demographic mechanisms in a Data-Driven social simulation of moral values evolution". In N. David, J.S. Sichman (Eds.), *Multi-Agent-Based Simulation IX, Lecture Notes in Artificial Intelligence (from the Lecture Notes in Computer Science)*, Springer-Verlag (5269):167–182 (2009). ISSN 0302-9743
- 2008 Hassan, S., Salgado, M., Pavón, J. "Friends forever: Social relationships with a fuzzy Agent-Based model". *Hybrid Artificial Intelligence Systems*, Springer-Verlag, (5271):523–532 (2008). ISSN 0302-9743
- 2007 Hassan, S., Garmendia, L., Pavón, J. "Agent-Based social modeling and simulation with fuzzy sets". *Innovations in Hybrid Intelligent Systems, Advances in Soft Computing*, Springer-Verlag, (44):40–47 (2007). From the conference 2nd International Workshop of Hybrid Artificial Intelligence Systems (HAIS07). ISSN 1615-3871
- 2007 Arroyo-Menéndez, M., Hassan-Collado, S. "Simulación de procesos sociales basada en agentes software". *Empiria - Revista de metodología de ciencias sociales*, (14):139–161 (2007). ISSN 1139-5737.
- 2007 León, C., Hassan, S., Gervás, P., Pavón, J. "Mixed narrative and dialog content planning based on BDI agents". *Current Topics in Artificial Intelligence, Lecture Notes in Artificial Intelligence, from the Lecture Notes in Computer Science Series*, Springer-Verlag, (4788):150–159 (2007). Selected papers from 12th Conference of the Spanish Association for Artificial Intelligence, CAEPIA 2007. ISSN 0302-9743

Edited Volumes

- 2016 Hassan, S., Rozas, D., De Filippi, P.(Eds.), *Decentralizing the Commons*, INC Reader. Institute of Network Cultures, University of Warwick (Forthcoming)
- 2016 Hassan, S., Fuster-Morell, M. (Eds.), *P2Pvalue: Governance, value, and decentralized infrastructures for collaborative production* (tentative title), (Forthcoming)
- 2010 Antunes, L., Hassan, S., Gilbert, N. (Eds.), *Social Simulation from the Perspective of Artificial Intelligence*, Computational and Mathematical Organization Theory 16(4), Springer, Washington DC. ISSN 1381-298X. JCR (2010) = 0.583

Peer-reviewed Conference Articles

- 2015 Hassan, S., De Filippi, P. "Reputation and Quality Indicators to improve Community Governance". *Proceedings of the Transvaluation: Making the World Matter Symposium*. Gothenburg, Sweden (2015).
- 2015 Hassan, S., Román, S., "Impulsando la creación colaborativa: Wikis públicas y abiertas como complemento a la docencia presencial", communication in II UCM Good Practices: Classroom Innovation conference, Universidad Complutense de Madrid (2015)

- 2015 Román, S., Hassan, S., "Incorporación de debates formales, representando actores sociales, como recurso en el aula", communication in II UCM Good Practices: Classroom Innovation conference, Universidad Complutense de Madrid (2015)
- 2010 Hassan, S., Arroyo, J., Galán, J.M., Antunes, L., Pavón, J. "Asking the Oracle: Introducing Forecasting Principles into Agent-Based Modelling". In Ernst, A., Kuhn, S. (Eds.), *Proceedings of the 3rd World Congress of Social Simulation (WCSS 2010)*. Kassel, Germany (2010).
- 2010 Fuentes-Fernández, R., Hassan, S., Pavón, J., Galán, J.M., López-Paredes, A. "Meta-models for Role-Driven Agent-Based Modelling". In *Proceedings of the 4th Edition of Epistemological Perspectives on Simulation 2010 (EPOS 2010)*. Hamburg, Germany (2010).
- 2010 Hassan, S., Pavón, J., Sansores, C. "Analysing the Social Network Evolution and Parametrization in Diffusion Models". In *Proceedings of the Workshop on Agent-based Simulation of Diffusion Processes*. Vienna, Austria (2010).
- 2009 Hassan, S., Fuentes-Fernández, R., Galán, J.M., López-Paredes, A., Pavón, J. "Reducing the modeling gap: On the use of metamodels in Agent-Based simulation". In *Proceedings of the 6th Conference of the European Social Simulation Association (ESSA09)*. Guildford, UK (2009).
- 2009 Hassan, S., Gutiérrez, C., Arroyo, J. "Re-thinking modelling: a call for the use of data mining in data-driven social simulation". In *Proceedings of the 1st Workshop on Social Simulation at the 21st International Joint Conference on Artificial Intelligence (IJCAI 2009)* 75–88. Pasadena, CA (2009).
- 2009 Hassan, S., Antunes, L., Pavón, J. "A Data-Driven simulation of social values evolution". In Decker, Sichman, Sierra, Castelfranchi (Eds.), *Proceedings of the 8th International Joint Conference on Autonomous Agents and Multiagent Systems (AAMAS-2009)*, 1337–1338. IFAAMAS, Budapest (2009)
- 2009 Hassan, S., Antunes, L., Pavón, J. "Mentat: A Data-Driven Agent-Based simulation of social values evolution". In *Proceedings of the Multi-Agent-Based Simulation 2009*. Budapest (2009).
- 2009 Arroyo, M., Hassan, S. "Marco teórico-sociológico y operativización para modelar un sistema multi-agente sobre la evolución de la religiosidad española". In F.J. Miguel (Ed.), *Proceedings of the 2nd Workshop on Social Simulation and Artificial Societies Analysis (SSASA'08)*, vol. 442, 8. CEUR Workshop Proceedings, Barcelona (2009)
- 2008 Hassan, S., Pavón, J., Gilbert, N. "Injecting data into simulation: Can Agent-Based modelling learn from microsimulation?" In *Proceedings of the World Congress of Social Simulation 2008*. Washington, D.C. (2008)
- 2008 Hassan, S., Antunes, L., Pavón, J., Gilbert, N. "Stepping on earth: A roadmap for data-driven Agent-Based modelling". In *Proceedings of the 5th Conference of the European Social Simulation Association (ESSA08)*. Brescia, Italy (2008)
- 2008 Hassan, S., Antunes, L., Arroyo, M. "Deepening the demographic mechanisms in a Data-Driven social simulation of moral values evolution". In N. David, J.S. Sichman (Eds.), *Proceedings of the MABS 2008*, 189–203. Springer, Estoril, Portugal (2008)
- 2007 Hassan, S., Pavón, J., Arroyo, M., León, C. "Agent based simulation framework for quantitative and qualitative social research: Statistics and natural language generation". In F. Amblard (Ed.), *Proceedings of the Fourth Conference of the European Social Simulation Association (ESSA07)*, 697–707. Toulouse, France (2007)

- 2007 León, C., Hassan, S., Gervás, P., Pavón, J. "Mixed narrative and dialog content planning based on BDI agents". In *Proceedings of the CAEPIA-TTIA'07*, vol. I, 27–36. Salamanca (2007)
- 2007 Hassan, S., León, C., Gervás, P., Hervás, R. "A computer model that generates biography-like narratives". In A. Cardoso, G.A. Wiggins (Eds.), *Proceedings of the 4th International Joint Workshop on Computational Creativity*, 5–12. London (2007)
- 2007 Arroyo, M., Hassan, S. "Simulación de procesos sociales basada en agentes software". In *Actas del IX Congreso Español de Sociología*. Grupo de trabajo I: Metodología. Barcelona (2007)
- 2007 León, C., Hassan, S., Gervás, P. "From the event log of a social simulation to narrative discourse: Content planning in story generation". In *Proceedings of the AISB Annual Convention*, 402–409. Newcastle, UK (2007)
- 2007 Hassan-Collado, S., Mata-Garcia, M.G., Salvador, L.G. "Aplicaciones de lógica borrosa a sistemas sociales con agentes software". In *Actas del Primer Congreso Internacional de Matemáticas en Ingeniería y Arquitectura*, 256–265. Madrid (2007)
- 2006 Pavón, J., Arroyo, M., Hassan, S., Sansores, C. "Simulación de sistemas sociales con agentes software". In *Actas del Campus Multidisciplinar en Percepción e Inteligencia*, vol. I, 389–400. Albacete (2006)

Service to the profession

Research Project Reviewer

- 2016 Expert Project Evaluator for the Austrian Science Fund
- 2016 Expert Project Evaluator for the COST Actions (European Cooperation in Science and Technology), Call OC-2016-1
- 2014 Expert Project Evaluator for the European Commission: FP7 FIRE CONFINE Project, 2nd Open Call

Organization Committees, Juries & Keynotes

- 2016 Member of the Organizing Committee of the international conference Peer Value: Advancing the Commons Collaborative Economy, Amsterdam, Netherlands
- 2016 Member of the Jury of the national *Free Software University Contest 2015-16* (Concurso Universitario de Software Libre), Spain
- 2016 Member of the Organizing Committee of the international conference Commons Collaborative Economies: Policies, Technologies and City for the People, Barcelona, Spain
- 2016 Member of the Award Evaluator Technical Committee of the 6th Smart City Expo World Congress (SCEWC 2016), Barcelona, Spain
- 2016 General Chair of the International Conference on Advanced Collaborative Networks, Systems and Applications (COLLA 2016), Barcelona, Spain
- 2014 Member of the Organizing Committee of the Researchers' Night 2015 event (H2020-MSCA-NIGHT-2014 #633161) "The revolution of the commons-based peer production communities", Universidad Complutense de Madrid, Spain

- 2015 Member of the Organizing Committee of the European Commission Infoday on Collective Awareness Platforms for Sustainability and Social Innovation (CAPS), Barcelona, Spain
- 2015 Representative in the Permanent Council of the Dpt. of Software Engineering & Artificial Intelligence, Universidad Complutense de Madrid
- 2015 Chair of the Organizing Committee of the 2nd FLOSS4P2P Workshop on Free/Libre/Open Source Distributed Platforms for Peer Production, London, UK
- 2014 Member of the Organizing Committee of the Researchers' Night 2014 event (H2020-MSCA-NIGHT-2014 #633161) "Create, Modify, Collaborate, Share", Universidad Complutense de Madrid, Spain
- 2014 Keynote speaker in Free Culture Conference by the Association of University Social Researchers, Universidad Complutense de Madrid, Spain
- 2013 Chair of the Organizing Committee of the 1st Workshop on Free/Open Source Distributed Platforms for Peer Production, Madrid, Spain
- 2013 Member of the Jury of several MSc Thesis, Universidad Complutense de Madrid, Spain
- 2013 Member of the Jury of the *8th Libre Graphics Meeting 2013, in the frame of Interactivos 2013: Tools for a Read-Write World*, Medialab-Prado, Madrid, Spain
- 2012 Keynote speaker in Research Experiences Seminar 2012 for young social scientists, Universidad Complutense de Madrid, Spain
- 2011 Member of the Jury of the *7th Engineering and Computer Science Project Exhibition, American University of Science & Technology*, Beirut, Lebanon
- 2009 Member of the Organizing Committee of the *1st Social Simulation Workshop in the IJCAI 2009: 21st International Joint Conference on Artificial Intelligence*, California, USA
- 2008 Member of the Organizing Committee of the Special Track *Hybrid Systems Based on Negotiation and Social Network Modelling in the HAIS 2008: 3rd International Workshop on Hybrid Artificial Intelligence Systems*, Burgos, Spain
- 2007 Member of the Organization in the *Free Software World Conference 2007*, Badajoz, Spain

Program Committees & Evaluations

- 2017 Member of the Program Committee of the *7th International Conference on Simulation and Modeling Methodologies, Technologies and Applications (SIMULTECH 2017)*, Madrid, Spain
- 2016 Member of the Program Committee of the *2nd International Conference on Communication and Information Processing (ICCIP 2016)*, Singapore
- 2016 Member of the Program Committee of the *6th International Workshop on Multi-Agent Systems and Collaborative Technologies (I-MASC 2015), in the frame of the 17th International Conference on Collaboration Technologies and Systems (CTS 2016)*, Orlando, Florida, USA
- 2016 Member of the Program Committee of the *8th International Conference on Advances in System Simulation (SIMUL 2016)*, Rome, Italy
- 2016 Member of the Program Committee of the *3rd International conference on Collaborative Systems (SYSCO 2016)*, Casablanca, Morocco

- 2016 Member of the Program Committee of the *International conference on Big Data and Advanced Wireless technologies (BDaw 2016)*, Blagoevgrad, Bulgaria
- 2016 Member of the Evaluator Technical Committee of the *6th Smart City Expo World Congress (SCEWC 2016)*, Barcelona, Spain
- 2016 Member of the Program Committee of the *13th International Conference on Distributed Computing and Artificial Intelligence (DCAI'16)*, Sevilla, Spain
- 2016 Member of the Program Committee of the *6th International Conference on Simulation and Modeling Methodologies, Technologies and Applications (SIMULTECH 2016)*, Lisbon, Portugal
- 2015 Member of the Program Committee of the *5th International Workshop on Multi-Agent Systems and Collaborative Technologies (I-MASC 2015)*, in the frame of the *16th International Conference on Collaboration Technologies and Systems (CTS 2015)*, Atlanta, Georgia, USA
- 2015 Member of the Program Committee of the *9th International Workshop on Multi-Agent Systems & Simulation (MAS&S'15)*, in the frame of the *FedCSIS 2015: Federated Computer Science and Information Systems Conference*, Lodz, Poland
- 2015 Member of the Program Committee of the *7th International Conference on Advances in System Simulation (SIMUL 2015)*, Barcelona, Spain
- 2015 Member of the Program Committee of the *5th International Conference on Simulation and Modeling Methodologies, Technologies and Applications (SIMULTECH 2015)*, Colmar, France
- 2015 Member of the Program Committee of the *5th International Conference on Advanced Collaborative Networks, Systems and Applications (COLLA 2015)*, St. Julians, Malta
- 2014 Member of the Program Committee of the *4th International Conference on Simulation and Modeling Methodologies, Technologies and Applications (SIMULTECH 2014)*, Vienna, Austria
- 2014 Member of the Program Committee of the *8th International Workshop on Multi-Agent Systems & Simulation (MAS&S'14)*, in the frame of the *FedCSIS 2012: Federated Computer Science and Information Systems Conference*, Warsaw, Poland
- 2014 Member of the Program Committee of the *5th International Workshop on Multi-Agent Systems and Collaborative Technologies (I-MASC 2014)* in the frame of the *2014 International Conference on Collaboration Technologies and Systems (CTS 2014)*, Minneapolis, Minnesota, USA
- 2014 Member of the Program Committee of the *10th European Social Simulation Association conference (SOCIAL SIMULATION 2014)*, Barcelona, Spain
- 2014 Member of the Program Committee of the *4th International Conference on Advanced Collaborative Networks, Systems and Applications (COLLA 2014)*, Seville, Spain
- 2013 Member of the Program Committee of the *Symposium on Social Simulation*, in the frame of the *1st BRICS Countries Congress on Computational Intelligence and 11th Brazilian Congress on Computational Intelligence*, Porto de Galinhas, Recife, Brazil
- 2013 Member of the Program Committee of the *16th Portuguese Conference on Artificial Intelligence (EPIA 2013)*, Azores, Portugal
- 2013 Member of the Program Committee of the Track on *Social Simulation and Modelling* in the frame of the *EPIA 2013, the 16th Portuguese Conference on Artificial Intelligence*, Azores, Portugal

- 2013 Member of the Program Committee of the *3rd International Conference on Advanced Collaborative Networks, Systems and Applications (COLLA 2013)*, Nice, France
- 2013 Member of the Program Committee of the *7th International Workshop on Multi-Agent Systems and Simulation (MAS&S'13)*, in the frame of the *11th German Conference on Multiagent System Technologies*, Koblenz, Germany
- 2013 Reviewer of the *Simulation of the Complex Social Systems (SiCoSSys 2013)* track of the *Summer Computer Simulation Conference 2013*, Toronto, Canada
- 2012 Member of the Program Committee of the *3rd Brazilian Workshop on Social Simulation*, in the frame of the *Brazilian Conference on Intelligent Systems (BRACIS 2012)* and the *21th Brazilian Symposium on Artificial Intelligence*, Curitiba, Brazil
- 2012 Member of the Program Committee of the *6th International Workshop on Multi-Agent Systems & Simulation (MAS&S'12)*, in the frame of the *FedCSIS 2012: Federated Computer Science and Information Systems Conference*, Wroclaw, Poland
- 2012 Member of the Program Committee of the *5th Epistemological Perspectives on Simulation (EPOS V)*, San Antonio, Texas, USA
- 2012 Member of the Program Committee of the *13th Ibero-American Conference on Artificial Intelligence (IBERAMIA 2012)*, Cartagena de Indias, Colombia
- 2011 Member of the Program Committee of the *5th International Workshop on Multi-Agent Systems & Simulation (MAS&S'11)*, in the frame of the *FedCSIS 2011: Federated Computer Science and Information Systems Conference*, Szczecin, Poland
- 2011 Member of the Program Committee of the *2nd Workshop on Social Simulation and Modelling*, in the frame of the *EPIA 2011: 15th Portuguese Conference on Artificial Intelligence*, Lisbon, Portugal
- 2011 Member of the Program Committee of the *12th International Workshop on Multi-Agent-Based Simulation (MABS'11)*, in the frame of the *10th International Conference on Autonomous Agents and Multiagent Systems (AAMAS 2011)*, Taipei, Taiwan
- 2010 Member of the Program Committee of the *4th International Workshop on Multi-Agent Systems & Simulation (MAS&S'10)*, in the frame of the *MALLOW 2010: 3rd Multi-Agent Logics, Languages, and Organisations Federated Workshops*, Lyon, France
- 2010 Member of the Program Committee of the *2nd Brazilian Workshop on Social Simulation*, in the frame of the *20th Brazilian Symposium on Artificial Intelligence*, Sao Bernardo do Campo, Brazil
- 2009 Member of the Program Committee of the *International Workshop on Simulation of Complex Social Systems (SiCoSSys 2009)*, in the frame of the *CAEPIA 2009: 13th Spanish Conference on Artificial Intelligence*, Seville, Spain
- 2009 Member of the Program Committee of the *3rd International Workshop on Multi-Agent Systems & Simulation (MAS&S'09)*, in the frame of the *MALLOW 2009: 2nd Multi-Agent Logics, Languages, and Organisations Federated Workshops*, Torino, Italy
- 2009 Member of the Program Committee of the *1st Portuguese Workshop on Social Simulation and Modelling*, in the frame of the *EPIA 2009: 14th Portuguese Conference on Artificial Intelligence*, Portugal
- 2009 Member of the Program Committee of the *1st Emotional and Affective Computing Special Track*, in the frame of the *EPIA 2009: 14th Portuguese Conference on Artificial Intelligence*, Portugal
- 2008 Member of the Program Committee of the *AAMAS 2009: 8th International Conference on Autonomous Agents and Multi-Agent Systems*, Estoril, Portugal

2008 Member of the Program Committee of the *H AIS 2008: 3rd International Workshop on Hybrid Artificial Intelligence Systems*, Burgos, Spain

Journal Reviewer

2015 Reviewer of Journal *ACM Transactions on Modeling and Computer Simulation*, JCR (2014) = 0.780

2015 Reviewer of Journal *Computational and Mathematical Organization Theory*, JCR (2014) = 0.840

2015 Reviewer of *Journal of Peer Production*

2014 Reviewer of *International Journal of Data Mining and Bioinformatics*, JCR(2013) = 0.655

2013 Reviewer of *Journal of Archaeological Method and Theory*, JCR(2011) = 0.963

2012 Reviewer of Journal *International Journal of Simulation and Process Modelling*

2011 Reviewer of Springer Series on *Studies on the Philosophy of Sociality*

2011 Reviewer of Journal *"Information and Software Technology"*, JCR(2009) = 1.821

2010, 2011, 2014, 2015 Reviewer of Journal *"Simulation: Transactions of the Society for Modeling and Simulation International"*, JCR(2009) = 0.448

2009, 2013, 2015 Reviewer of Journal *"Simulation Modelling Practice and Theory"*, JCR(2009) = 0.799

2009, 2011, 2012, 2015 Reviewer of *"Journal of Artificial Societies and Social Simulation"*, JCR(2009) = 1.234

2008 Reviewer of Journal *"Empiria (methodology in social sciences)"*

Teaching Experience

2012-today Ethics, Law & Profession of Computer Science
Course in Universidad Complutense de Madrid

2011-2014 Software Engineering
Course in Universidad Complutense de Madrid

2010-2011 Advanced Artificial Intelligence
MSc Course in American University of Science & Technology, Lebanon

2010-2011 Artificial Intelligence
Course in American University of Science & Technology, Lebanon

2010 Accreditation as Associate Professor
Official position capacitation from Spanish Accreditation Agency of Madrid (ACAP)

2009-2010 Web Development
Online Course in Universidad Complutense de Madrid

2008-2009 Programming Lab
Course in Universidad Complutense de Madrid

2007 Introduction to Free Software
European University of Madrid, course for high capacities children

Academic Supervision

2015-today PhD Thesis in Computer Science, Universidad Complutense de Madrid
Gerges Tannous, on **Towards a robust commons-based peer production: a data analysis tool for the classification of contributions**, co-supervised with Dr Javier Arroyo

- 2013-today PhD Thesis in Computer Science, Universidad Complutense de Madrid
Antonio Tenorio-Fornés, on **Governance of online communities: modelling, simulation and development of decision-making platform**, co-supervised with Prof Juan Pavón
- 2015-2016 Final Project in Computer Science, Universidad Complutense de Madrid
Crisanto Díaz García, on **Financial services over cryptocurrency**, co-supervised with Antonio Tenorio-Fornés
- 2015-2016 Final Project in Computer Science, Universidad Complutense de Madrid
Claudia Gil Navarro, Alejandro Pequeño Pulleiro & Alejandro Jesús del Valle Silva, on **Data visualization of collaborative communities**, co-supervised with Dr Javier Arroyo
- 2015 Final Project in Computer Science, Universidad Complutense de Madrid
Fredy Alonso Juan Ugarriza Cáceres & Charles Alfredo Flores Espinoza, on **Development of a distributed reputation system in a collaborative platform**, co-supervised with Dr Javier Arroyo
- 2015 Final Project in Computer Science, Universidad Complutense de Madrid
Javier Francisco Bastarrica Lacalle & Jaime Ramos Romero, on **DemoCritics: Android app of political participation with collaborative edition in real-time**, co-supervised with Pablo Ojanguren
- 2015 Final Project in Computer Science, Universidad Complutense de Madrid
Viktor Shamel Jacynycz Garcia & Adrián Calvo María, on **Development of distributed crowd-funding platform over Ethereum**, co-supervised with Dr Antonio Sánchez Ruiz-Granados
- 2013 MSc Thesis in MSc of Free/Libre Software, Universidad Rey Juan Carlos
Esteban Carreras Genis, on **Participation in the development of the new social currency gadget Troco**, co-supervised with Dr Gregorio Robles
- 2013 Final Project in Computer Science, Universidad Complutense de Madrid
Pablo Martínez Bernardo, on **Application framework for a distributed collaborative social network**, co-supervised with Antonio Tenorio
- 2013 Practicum of Computer Science, Universidad Europea de Madrid
Ramón Villasante Roa, on **Online Mapping for UN Millennium Development Goals**
- 2012 MSc Thesis in MSc of Computer Science, American University of Science & Technology
Siba Moussaoui, on **Kune Recommender System**, co-supervised with Dr Aziz Barbar
- 2012 MSc Thesis in MSc of Artificial Intelligence, Universidad Complutense de Madrid
Helio Alejandro Domínguez Bayo, on **Agent-based simulation of demographic models**, co-supervised with Dr Juan Pavón
- 2011 Practicum of **MSc in Free Software**, Universidad Rey Juan Carlos, Madrid
Juan Pablo Zafra Delgado, on Community management & communication
- 2011 Practicum of **MSc in Free Software**, Universidad Rey Juan Carlos, Madrid
Hilmar Delgado Figuera, on Free Software Testing
- 2011 Practicum of **MSc in Free Software**, Universidad Rey Juan Carlos, Madrid
Esteban Carreras Genis, on Troco: a P2P social currency
- 2011 Practicum of **MSc in Free Software**, Universidad Rey Juan Carlos, Madrid
Xavier Marcos Rodríguez, on Plugin development
- 2011 Practicum of **MSc in Free Software**, Universidad Rey Juan Carlos, Madrid
César Valiente Gordo, on Android development

Professional Affiliations

- 2016–today W3C Blockchain Community Group, World Wide Web Consortium, USA
- 2016–today IGF Dynamic Coalition on Network Neutrality, Internet Governance Forum, United Nations
- 2016–today Coala Global: Coalition of automated legal applications

- 2015–today Berkman Center for Internet & Society, Harvard University, USA
- 2012–today Editorial Board of the Society for Modeling & Simulation Newsletter
- 2010–2013 American University of Science & Technology (AUST), Lebanon
- 2007–today Centre for Research on Social Simulation (CRESS), United Kingdom
- 2007–2013 European Association of Social Simulation (ESSA)
- 2006–today Group of Software Agents & Applications (GRASIA), Spain

Other professional activities

- 2010 **IT Consultant**, *German Society for Technical Cooperation (GTZ)*, Beirut, Lebanon.
Design architecture of GIS application for refugee camps
- 2006 **Software Developer**, *Peopleware SL*, Madrid, Spain.
Developer in free software project for monitorization of databases
- 2003–2006 **Software Developer**, *Cardiophone SL*, Madrid, Spain.
C++ developer of tele-medicine system

IT & programming skills

Knowledge of a wide range of programming languages (Java, C++, C, SQL, HTML, PHP, Prolog, Matlab, SPSS...)
Server administration in GNU/Linux systems

Languages

- Spanish* Native
- English* Professional (TOEFL 112/120)
- Arabic* Intermediate