

CV Resume



Name: Dr. Josué Antonio Nescolarde Selva
Citizenship: Spanish citizen
Date of birth: 08/04/1977
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Affiliation

Profesor Titular de Universidad (Tenure Professor).
Department of Applied Mathematics.
Vice Dean of Postgraduate Studies and Students. Polytechnic School.
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Career

- Since October 2018 until now. Profesor Titular de Universidad (Tenure Professor). Department of Applied Mathematics. University of Alicante. Spain.
- From October 2012 to October 2018. Profesor Contratado Doctor (Contracted Doctor: Associate Professor). Department of Applied Mathematics. University of Alicante. Spain.
- From September 2016 to December 2016. Visiting Associate Professor. School of Mathematics and Statistics. Northeast Normal University. Changchun. China.
- From March 2016 to June 2016. Visiting Associate Professor. School of Mathematics and Statistics. Northeast Normal University. Changchun. China.
- From August 2007 to October 2012. Profesor Colaborador (Collaborator Professor). Department of Applied Mathematics. University of Alicante. Spain.
- From February 2002 to August 2007. Profesor Asociado (Lecturer). Department of Applied Mathematics. University of Alicante. Spain.

- From January 2000 to February 2002. Teaching Assistant (Ph.D. student). Department of Applied Mathematics. University of Alicante. Spain.
- From September 1998 to July 1999. Undergraduate Teaching Assistant (Undergraduate student). Department of Differential Equations. University of Havana. Cuba.

Awards

- 2017. Researcher of the University of Alicante with the largest number of scientific publications indexed in the Web of Science (WoS) in 2015.
- 2016. Most valued professor in the degree in Telecommunication Engineering of the Polytechnic School (University of Alicante) in the academic year 2015/2016.
- 2014. Most valued professor in the degree in Telecommunication Engineering of the Polytechnic School (University of Alicante) in the academic year 2013/2014.
- 2013. Most valued professor in the degree in Telecommunication Engineering of the Polytechnic School (University of Alicante) in the academic year 2012/2013.
- 2000. PhD Scholarship in Mathematics. Secretariat for Relations with Latin America. University of Alicante. Spain.
- 1999. Gold title: B. Mathematics. University of Havana, Havana. Cuba.
- 1999. Special mention to the best academic record. B. Mathematics. University of Havana, Havana. Cuba.
- 1994. Silver Medal. National Physics Olympiad, held in Havana on May 10. Cuba.
- 1993. Bronze Medal. National Mathematics Olympiad, held in Havana on May 19. Cuba.
- 1993. Silver Medal. National Physics Olympiad, held in Havana on May 12. Cuba.

Projects and Grants

- Since 2022(Sept) to 2025. Technological resources for intelligent viral analysis using NLP (PID2021-122263OB-C22. 213565 euros).
- Since 2019 to 2022(Sept). Behavior modeling of digital entities through human language technologies (RTI2018-094653-B-C22. 147015 euros).

- Since 2018 to 2019. Application of a methodology based on network analysis to assess the environmental quality and sustainable development of tourist destinations. (GV/2018/061. 18000 euros)
- Since 2016 to 2018. Extraction of knowledge for semantic enrichment of Digital Entities. (TIN2015-65136-C2-2-R. 115071 euros)
- Since 2016 to 2018. Finding attractors: an innovative approach to the analysis of the influence of ICT in the Spanish tourist system. (GRE15-13. 10690 euros)
- Since 2006 until 2015/2016. Systemic, Cybernetic and optimization. (VIGROB-117. 5744 euros)
- Since 2015 to 2016. Research and development strategies for inaccurate computing systems mobile cloud computing. (CETEL1-15I. 21364 euros)
- Since 2014 to 2015. Design of architectures of efficient systems processing cloud-computing. (CETEL1-14I. 27684 euros)
- Since 2013 to 2014. Design of architectures of efficient systems processing cloud-computing II. (CETEL1-13I. 29397 euros)

Teaching experience

- Since 2021/2022 until now. Extension of Statistics and Optimization. Master Degree in Data Science.
- Since 2020/2021 until now. Bayesian Graphical Methods. Master Degree in Data Science.
- From March 7, 2022 to April 1, 2022. Probabilistic Graphical Models (Online). Postgraduate course. Northwestern Polytechnical University (Xian. China).
- From June 8, 2021 to July 1, 2021. Probabilistic Graphical Models (Online). Postgraduate course. Northwestern Polytechnical University (Xian. China).
- Since 2011/2012 until now. Mathematics II: Probability and stochastic processes & Statistics, Complex variable, Partial differential equations.
- 2018/2019 until 2019/2020. Mathematics I: Calculus II and Differential Equations.
- 2010/2011 until 2016/2017. Mathematics I: Calculus II and Differential Equations.
- 2016/2017. Mathematical Statistics (School of Mathematics and Statistics. Northeast Normal University. Changchung. China)

- 2015/2016. Business Calculus (undergraduate) (School of Economy. Northeast Normal University. Changchung. China)
- 2015/2016. Biomathematics (postgraduate) (School of Mathematics and Statistics. Northeast Normal University. Changchung. China)
- 2010/2011 until 2014/2015. Basic Mathematics. Complex Numbers, Calculus I, Algebra.
- 2011/2012. Supplements for Mathematics Education. History of Mathematics. Master Degree in Secondary Education.
- 2010/2011. Mathematical Foundations III: Numerical Analysis and Probability and stochastic processes & Statistics.
- 2009/2010. Mathematics: Calculus I and Algebra.
- 2001/2002 until 2009/2010. Mathematical Foundations I: Complex Numbers, Calculus I and II, Algebra.
- 2005/2006 until 2008/2009. Mathematical Foundations II: Complex variable, Partial differential equations.
- 2000/2001 until 2008/2009. Linear Algebra and Abstract Algebra.
- 2000/2001. Fundamentals of Applied Mathematics: Calculus I and Algebra.
- 1999/2000. Extending Fundamentals of Applied Mathematics: Calculus II and Algebra.
- 1998/1999. Mathematics: Calculus II.

Participation in projects for innovations in teaching

- 2018/2019. Name of the project: Study on the situation of women in university engineering (Ministry of Health-Women's Institute 1-18i).
- Since 2013/2014 until now. Name of the project: Coordinating Network Tutorial Action Plan at the Polytechnic School. University of Alicante.
- 2014/2015. Name of the project: Coordination and monitoring of the course of Basic Mathematics and Mathematics II.
- 2013/2014. Name of the project: Coordination powers signal processing and communications Undergrade+Graduate in Telecommunication Engineering.
- 2013/2014. Name of the project: Coordination and monitoring of the course of Basic Mathematics and Mathematics II.

- 2012/2013. Name of the project: Coordination and monitoring of the course of Basic Mathematics and Mathematics II.
- 2011/2012. Name of the project: Coordination and monitoring of the course of Basic Mathematics and Mathematics II.
- 2007/2008. Name of the project: Mathematical Foundations II.
- 2007/2008. Name of the project: Linear Algebra.
- 2006/2007. Name of the project: Mathematical Foundations I.

Experience with academic administration

- Since May 2021. Vice Dean of Postgraduate Studies and Students. Polytechnic School.
- Since 2020/2021. Coordinator of the course Bayesian Graphical Methods.
- From 2019 to 2020. Director of the *Telefónica-UA* Chair: Use and Applications of Big Data.
- From May 2017 to May 2021. Vice Dean of Postgraduate Studies, Communication and Students. Polytechnic School.
- From May 2013 to May 2017. Academic Coordinator of Communication and Student. Polytechnic School. University of Alicante.
- From May 2013 to May 2017. Chief postgraduate studies. Polytechnic School. University of Alicante.
- Since 2010/2011. Coordinator of the course Mathematics II.
- From 2010/2011 to 2014/2015. Coordinator of the course Basic Mathematics.
- Since 2009/2010. Academic Coordinator of Mathematics on the University Entrance Examinations for over-25s.

Areas of expertise

Applied Mathematics: Complex systems, Data Science, Mathematical Biology, Social systems modelling.

Qualifications

2010 Ph.D. Mathematics. University of Alicante, Alicante. Spain.
1999 B.Sc. Mathematics. University of Havana, Havana. Cuba.

Experience as academic Editor and Reviewer

- Since 2022. Associate Editor for the journal *Applied Artificial Intelligence*. Ed. Taylor and Francis.
- Since 2020. Editor for the journal *Mathematics*. Ed. MDPI.
- 2019. Associate Editor for the journal *IEEE Access*. Ed. IEEE.
- 2018. Editor Board Member for the journal *Entropy*. Ed. MDPI.
- 2018. Associate Editor for the journal *Kybernetes*. Ed. Emerald insight.
- 2018. Guest Editor: Special Issue: "Unintended Consequences". *Kybernetes*. Ed. Emerald insight.
- 2017. Guest Editor: Special Issue: "Complex Social Systems: Theory and Practice". *Systems*. Ed. MDPI.
- Since 2016. Editor for the journal *Systems*. Ed. MDPI.
- 2016. Reviewer for the journal *Minds and Machines*. Ed. Springer.
- 2016. Guest Editor: Special Issue: Belief Systems. *Foundations of Science*. Ed. Springer.
- 2015. Reviewer for the journal *Systems*. Ed. MDPI.
- Since 2015. Reviewer for the *IEEE Systems Journal*.
- 2015. Reviewer of the journal *Ecological Modelling*. Ed. Elsevier.
- 2015. Guest Editor-in-Chief: Special Issue: Belief Systems in Science and Engineering. *Cybernetics and Systems*. Ed. Taylor and Francis.
- Since 2014. Reviewer: Mathematical Reviews. American Mathematical Society (AMS).
- 2014. Reviewer of the *International Journal of Web Information Systems*.
- 2013. Reviewer of the journal *Axiomathes*. Ed. Springer.
- 2013. Reviewer of the journal *Kybernetes*. Ed. Emerald insight.
- 2011. Reviewer and Associate Editor of *The International Journal of Science in Society*. Ed. Common Ground Publishing.

Selected publications

List of publications on Science Citation Index

1. Nescolarde-Selva, J. A.; Usó-Doménech. J. L.; Gash, H. (2022). Chance and Necessity: Hegel's Epistemological Vision. *Foundations of Science*. <https://doi.org/10.1007/s10699-022-09864-y>.
2. Nescolarde-Selva, J. A. and Usó-Doménech. J. L. (2022). Processes of cellular division and fusion: system-linkage interpretation. *Cybernetics and Systems*. <https://doi.org/10.1080/01969722.2022.2090665>.

3. Usó-Doménech J. L.; Nescolarde-Selva, J. A.; Lloret-Climent, M.; Gash, H and Segura-Abad, L. (2022). Structure, thermodynamics and information in complex systems. *Kybernetes*. <https://doi.org/10.1108/K-09-2021-0858>.
4. Usó-Doménech J. L.; Nescolarde-Selva, J. A.; Gash, H. (2022). Belief systems and ideological deep disagreement. *International Journal of General Systems*. 51(7). pp. 691–733.
5. Usó-Doménech J. L.; Nescolarde-Selva, J. A.; Gash, H. (2022). Dialectical Hegelian Logic and Physical Quantity and Quality. *Foundations of Science*. 27(2). pp. 555-572.
6. Lloret-Climent, M; Nescolarde-Selva, J. A.; Alonso-Stenberg, K.; Montoyo, A.; Gutiérrez, Y. (2022). Applying Smarta to the analysis of tourist network. *Mathematical Methods in the Applied Sciences*. 45(7). pp. 3921–3932.
7. Usó-Doménech, J. L.; Nescolarde-Selva, J. A.; Gash, H. (2022). Epistemological considerations about mathematical concepts. *Kybernetes*. 51(1). pp. 95-115.
8. Usó-Doménech, J. L.; Nescolarde-Selva, J. A.; Gash, H. (2021). Paradoxical Aspects of the Russellian Conception of Existence. *Foundations of Science*. <https://doi.org/10.1007/s10699-021-09822-0>.
9. Usó-Doménech, J. L.; Nescolarde-Selva, J. A.; Lloret-Climent, M.; Alonso, K. and Gash, H. (2021). Utopian and dystopian ideological systems and unintended and adverse consequences. *Kybernetes*. 50(10). pp. 2850-2882.
10. Usó-Doménech, J. L.; Nescolarde-Selva, J. A.; Segura-Abad, L.; Alonso-Stenberg, K.; Gash, H. (2021). Mathematical Perspectives on Liar Paradoxes. *Logica Universalis*. 15(3). pp. 251-269.
11. Nescolarde-Selva, J. A.; Usó-Doménech, J. L.; Gash, H. (2021). Belief, Knowledge and Faith: A Logical Modal Theory. *Foundations of Science*. 26(2). pp. 453-474.
12. Nescolarde-Selva, J. A.; Usó-Doménech, J. L.; Alonso-Stenberg, K. (2020). Reproductive system and interaction with fauna in a Mediterranean Pyrophyte shrub. *Ecological Complexity*. 44, 100887.
13. Usó-Doménech, J. L.; Nescolarde-Selva, J. A.; Gash, H. (2020). Theorizing About Theories and Mathematical Existence. *Foundations of Science*. 25(3). pp. 587-595.
14. Lloret-Climent, M.; Nescolarde-Selva, J. A.; Mora-Mora, H.; Alonso-Stenberg, K.; Mollá-Sirvent, R. (2020). Modeling Complex Social Systems: A New Network Point of View in Labour Markets. *IEEE Access*. 8. pp. 92110-92119.

15. Nescolarde-Selva, J. A.; Usó-Doménech, J. L.; Segura-Abad, L.; Alonso-Stenberg, K.; ; Gash, H. (2020). Solutions of extension and limits of some Cantorian paradoxes. *Mathematics*. 8(4), 486. pp. 1-11.
16. Usó-Doménech, J. L.; Nescolarde-Selva, J. A.; Segura-Abad, L.; Gash, H. (2020). A dialectical vision of mathematical models of complex systems. *Kybernetes*. 49(3).pp. 938-959.
17. Usó-Doménech, J. L.; Nescolarde-Selva, J.A.; Gash, H. (2020). Ontological argument and infinity in Spinoza's thought. *Foundations of Science*. 25(2). pp. 485-500.
18. Alonso-Stenberg, K; Lloret-Climent, M.; Nescolarde-Selva, J. A.; Mora-Mora, H. (2019). Interpreting the Smartphone Life Cycle Through Smarta. *IEEE Access*. 7. pp. 110730-110739.
19. Usó-Doménech, J. L.; Nescolarde-Selva, J. A.; Segura-Abad, L.; Gash, H. Alonso-Stenberg, K. (2019). Cantor Paradoxes, Possible Worlds and Set Theory. *Mathematics*. 7(7), 628. pp. 1-10.
20. Nescolarde-Selva, J. A.; Usó-Doménech, J. L.; Lloret-Climent, M. (2019). Impure systems and ecological models (II): components and thermodynamics. *Foundations of Science*. 24(3). pp. 427-455.
21. Usó-Doménech, J. L. Nescolarde-Selva, J. A.; Gash, H.; Segura-Abad, L. (2019). Dialectical logic for mythical and mystical superstructural systems (ii): Infinity and coincidentia oppositorum in Cusanus' thought. *Kybernetes*. 48(8). pp. 1851-1870.
22. Lloret-Climent, M.; Nescolarde-Selva, J. A.; Mora-Mora, H.; Jimeno-Morenilla, A.; Alonso-Stenberg, K. (2019). Design of Products Through the Search for the Attractor. *IEEE Access*. 7. pp. 60221- 60227.
23. Usó-Doménech, J. L.; Nescolarde-Selva, J. A. (2019). Mathematical Logic of Notions and Concepts. *Foundations of Science*. 24(4). pp. 641-655.
24. Usó-Doménech, J. L. Nescolarde-selva, J. A.; Segura-Abad, L.; Sabán, M. (2019). Dialectical logic for mythical and mystical superstructural systems. *Kybernetes*. 48(8). pp. 1653-1680.
25. Usó-Doménech, J. L.; Nescolarde-Selva, J. A.; Gash, H. (2019). Argumentum Ontologicum and Argumentum Ornithologicum: Anselm of Canterbury and Jorge Luis Borges. *Foundations of Science*. 24(4). pp. 727-749.
26. Lloret-Climent, M.; Nescolarde-Selva, J. A.; Alonso-Stenberg, K.; Selva-Barthelemy, M. (2019). Causal Analysis of the Spanish Industrial Sector Through Smarta. *IEEE Access*. 7. pp. 33556-33564.

27. Usó-Doménech, J. L.; Nescolarde-Selva, J. A.; Lloret-Climent, M.; Gash, H.; Alonso-Stenberg, K. (2019). Indirect Effects, Biotic Inferential Interactions and Time Functions in H-Semiotic Systems: Ecosystems Case. *Mathematics*. 7. pp. 1-24.
28. Zhou, X.; Rong, X.; Fan, M.; Nescolarde-Selva, J. A. (2019). Stoichiometric modeling of aboveground-belowground interaction of herbaceous plant. *Mathematical Biosciences and Engineering*. 16(1). pp. 25-55.
29. Nescolarde-Selva, J. A.; Gash, H.; Usó-Doménech, J. L. (2019). What are unintended and adverse consequences?. *Kybernetes*. 48(2). pp. 226 - 237.
30. Usó-Doménech, J. L.; Nescolarde-Selva, J. A.; Gash, H. (2018). Universe of Discourse and Existence. *Mathematics*. 6(11). pp. 1-19.
31. Usó-Doménech, J. L.; Nescolarde-Selva, J. A.; Lloret-Climent, M.; González-Franco, L.; Alonso-Stenberg, K. (2018). Spatial model of a pyrophyte shrub in mediterranean terrestrial ecosystems. *Ecological Modelling*. 384 (24), pp. 333-340.
32. Usó-Doménech, J. L.; Nescolarde-Selva, J. A.; Lloret-Climent, M. (2018). Impure Systems and Ecological Models (I): Axiomatization. *Foundations of Science*. 23(2). pp 297-321.
33. Lloret-Climent, M.; Nescolarde-Selva, J. A.; Mora-Mora, H.; Signes-Pont, M. T. (2018). A new network perspective in the study of labour markets. *Mathematical Methods in the Applied Sciences*. 41(6). pp. 2261-2268.
34. Usó-Doménech, J. L.; Nescolarde-Selva, J. A.; Lloret-Climent, M.; González-Franco, L. (2018). Behavior of pyrophyte shrubs in mediterranean terrestrial ecosystems: population and reproductive model. *Mathematical Biosciences*. 297, pp. 58-77.
35. Usó-Doménech, J. L.; Nescolarde-Selva, J. A.; Belmonte-Requena, M.; Segura-Abad, L. (2017). Mathematics, Philosophical and Semantic Considerations on Infinity (II): Dialectical Vision. *Foundations of Science*. 22(3). pp. 655-674.
36. Nescolarde-Selva, J. A.; Usó-Doménech, J. L.; ; Gash, H. (2017). Structure and Superstructures in Complex Social Systems. *Systems*. 5(2), 28, pp. 1-10.
37. Usó-Doménech, J. L.; Nescolarde-Selva, J. A.; Lloret-Climent, M. (2017). Causality in Complex Systems. *Kybernetes*. 46(4). pp. 590-602.
38. Nescolarde-Selva, J. A.; Usó-Doménech, J. L.; ; Gash, H. (2017). What Are Ideological Systems? *Systems*. 5(1), 21, pp. 1-17.

39. Usó-Doménech, J. L.; Nescolarde-Selva, J. A.; Segura-Abad, L. (2017). Dialectical Multivalued Logic and Probabilistic Theory. *Mathematics*. 5(1), 15, pp. 1-10.
40. Poveda-Martínez, P.; Peral-Orts, R.; Campillo-Davo, N.; Nescolarde-Selva, J. A.; LLoret-Climent, M.; Ramis-Soriano, J. (2017). Study of the effectiveness of electric vehicle warning sounds depending on the urban environment. *Applied Acoustics*. 116, pp. 317-328.
41. Alonso-Stenberg, K.; LLoret-Climent, M.; Nescolarde-Selva, J. A. (2016). Causal analysis of databases concerning electromagnetism and health. *Systems*. 4(4), 39, pp. 1-9.
42. Usó-Doménech, J. L.; Nescolarde-Selva, J. A.; Segura-Abad, L. (2016). Proposal for the formalization of dialectical logic. *Mathematics*. 4(4), 69, pp. 1-11.
43. Usó-Doménech, J. L.; Nescolarde-Selva, J. A.; LLoret-Climent, M.; Meng, F. (2016). Semiotic open systems: processes and behaviours. *Complexity*. 21(S2). pp. 388-396.
44. Nescolarde-Selva, J. A.; Usó-Doménech, J. L.; LLoret-Climent, M. (2016). Stability, sensitivity and uncertainty rates in the flow equations of ecological models. *Ecological Complexity*. 28. pp. 62-68.
45. Usó-Doménech, J. L.; Nescolarde-Selva, J. A.; Belmonte-Requena, M. (2016). Mathematics, philosophic and semantical considerations on infinity (I): general concepts. *Foundations of Science*. 21(4). pp. 615-630.
46. Usó-Doménech, J. L.; Nescolarde-Selva, J. A.; LLoret-Climent, M. (2016). Complex impure systems: Sheaves, freeways, and chains. *Complexity*. 21(S1). pp. 387-400.
47. Usó-Doménech, J. L.; Nescolarde-Selva, J. A.; LLoret-Climent, M.; Meng, F. (2016). Synonymy relationship and stochastic processes in determination of flow equations in ecological models. *Ecological Complexity*. 26. pp. 79-88.
48. Usó-Doménech, J. L.; Nescolarde-Selva, J. A.; LLoret-Climent, M.; Gash, H. (2016). Semantics of language for ecosystems modelling: a model case. *Ecological Modelling*. 328. pp. 85-94.
49. Usó-Doménech, J. L.; Nescolarde-Selva, J. A. (2016). What are belief systems?. *Foundations of Science*. 21(1). pp. 147-152.
50. Nescolarde-Selva, J. A. and Usó-Doménech, J. L. (2016). Textual theory and complex belief systems: topological theory. *Foundations of Science*. 21(1). pp. 153-175.
51. Perez-Gonzaga, S.; LLoret-Climent, M.; Nescolarde-Selva, J. A. (2016). Invariability, orbits and fuzzy attractors. *International Journal of General Systems*. 45(1). pp. 29-40.

52. Usó-Doménech, J. L.; Nescolarde-Selva, J. A.; Lloret-Climent, M. (2015). “Unintended-Effects”: A theorem for complex systems. *Complexity*. 21(2). pp. 342-354.
53. Nescolarde-Selva, J. A.; Usó-Doménech, J. L.; Lloret-Climent, M. (2015). Ideological Complex Systems: Mathematical Theory. *Complexity*. 21(2). pp. 47-65.
54. Nescolarde-Selva, J. A.; Usó-Doménech, J. L.; Gash, H. (2015). A logic-mathematical point of view of the truth: Reality, perception, language. *Complexity*. 20(4). pp. 58-67.
55. Lloret-Climent, M.; Pérez-Gonzaga, S.; Usó-Doménech, J. L.; Nescolarde-Selva, J. A. (2015). Fuzzy structure of complex belief systems: fuzzy relations and fuzzy belief sets. *Cybernetics and Systems*. 46(6-7). pp. 452-469.
56. Usó-Doménech, J. L.; Nescolarde-Selva, J. A.; Gash, H. (2015). Belief systems and science. *Cybernetics and Systems*. 46(6-7). pp. 379-389.
57. Nescolarde-Selva, J. A.; Usó-Doménech, J. L.; Gash, H. (2015). Language, values and ideology in complex human societies. *Cybernetics and Systems*. 46(6-7). pp. 390-422.
58. Usó-Doménech, J. L.; Nescolarde-Selva, J. A.; Belmonte-Requena, M.; Gash, H. (2015). Walking through Cantor’s paradise and Escher’s garden: epistemological reflections on mathematical infinite (I). *Cybernetics and Systems*. 46(6-7). pp. 423-437.
59. Nescolarde-Selva, J. A.; Usó-Doménech, J. L.; Belmonte-Requena, M.; Gash, H. (2015). Walking through Cantor’s paradise and Escher’s garden: epistemological reflections on mathematical infinite (II). *Cybernetics and Systems*. 46(6-7). pp. 438-451.
60. Nescolarde-Selva, J. A.; Usó-Doménech, J. L. and Sabán, M. (2015). Linguistic knowledge of Reality: a metaphysical impossibility?. *Foundations of Science*. 20(1). pp. 27-58.
61. Nescolarde-Selva, J. A.; Usó-Doménech, J. L.; Lloret-Climent, M. González-Franco, L. (2015). Chebanov law and Vakar formula in mathematical models of complex systems. *Ecological Complexity*. 21. pp. 27-33.
62. Nescolarde-Selva, J. A.; Usó-Doménech, J. L.; Lloret-Climent, M. (2015). Mythical Systems: Mathematic and Logical Theory. *International Journal of General Systems*. 44(1). pp. 76-97.
63. Lloret-Climent, M.; Amorós-Jiménez, R.; González-Franco, L.; Nescolarde-Selva J. A. (2014). Coverage and invariance for the biological control of pests in mediterranean greenhouses. *Ecological Modelling*. 292. pp. 37-44.

64. Usó-Doménech, J. L. and Nescolarde-Selva, J. A. (2014). Revealing the face of Isis. *Foundations of Science*. 19 (3). pp. 311-318.
65. Nescolarde-Selva, J. A. and Usó-Doménech, J. L. (2014). Myth, language and complex ideologies. *Complexity*. 20(2). pp. 63-81.
66. Nescolarde-Selva, J. A.; Usó-Doménech, J. L.; Gash, H. (2014). A theoretical point of view of Reality, Perception and Language. *Complexity*. 20 (1). pp. 27-37.
67. Lloret-Climent, M; Nescolarde-Selva, J. A.; Pérez-Gonzaga, S. (2014). Coverage and invariability in fuzzy systems. *International Journal of General Systems*, 43 (1). pp. 96-104.
68. Lloret-Climent, M, and Nescolarde-Selva, J. A. (2014). Data analysis using circular causality in networks. *Complexity*. 19 (4). pp. 15-19.
69. Nescolarde-Selva, J. A. and Usó-Doménech, J. L. (2014). Semiotic vision of ideologies. *Foundations of Science*. 19 (3). pp. 263-282.
70. Nescolarde-Selva, J. A. and Usó-Doménech, J. L.(2014). Model, metamodel and topology. *Foundations of Sciences*. 19 (3). pp. 285-288.
71. Nescolarde-Selva, J. A. and Usó-Doménech, J. L. (2014). Reality, System and Impure Systems. *Foundations of Science*. 19 (3). pp. 289-306.
72. Usó-Doménech, J. L and Nescolarde-Selva, J. A. (2013). An introduction to Alysidal Algebra IV. *Kybernetes*, 42(8). pp. 1235-1247.
73. Nescolarde-Selva, J. A. and Usó-Doménech, J. L. (2013). An introduction to Alysidal Algebra V: Phenomeological components. *Kybernetes*. 42(8). pp. 1248-1264.
74. Nescolarde-Selva, J. A. and Usó-Doménech, J. L. (2013). Topological Structures of Complex Belief Systems (II): Textual Materialization. *Complexity*. 19 (2). pp. 50-62.
75. Nescolarde-Selva, J. A. and Usó-Doménech, J. L. (2013). Topological Structures of Complex Belief Systems. *Complexity*, 19 (1). pp. 16-62.
76. Nescolarde-Selva, J. A. and Usó-Doménech. J. L. (2012). An introduction to Alysidal Algebra III. *Kybernetes*, 41 (10). pp. 1638-1649.
77. Nescolarde-Selva, J. A.; Vives Maciá, F.; Usó-Doménech, J. L.; Berend , D. (2012). An introduction to Alysidal Algebra II. *Kybernetes*, 41(5/6). pp. 780-793.

78. Nescolarde-Selva, J. A.; Vives Maciá, F.; Usó-Doménech, J. L.; Berend, D. (2012). An introduction to Alysidal Algebra I. *Kybernetes*, 41(1/2). pp. 21-34.

Complete list of Publications

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Recent presentations in Congresses

- 2020. Business Systems Laboratory International Symposium 2020. "Utopian and Dystopian Ideological Systems and Unintended and Adverses Consequences". Alicante. Spain.
- 2019. The International Society for Ecological Modelling Global Conference 2019. "A theoretical model of pollutants transport in groundwater in mediterranean ecosystems". Salzburg. Austria.
- 2019. Business Systems Laboratory International Symposium 2019. "A network analysis to evaluate tourist systems". Pavia. Italy.

- 2019. 9th International Congress on Industrial and Applied Mathematics - ICIAM 2019. "Two Paradoxes of Infinity". Valencia. Spain.
- 2019. Biennial Congress of the Royal Spanish Mathematical Society. Cantor Paradoxes and possible worlds. Santander Spain.
- 2018. Congreso Iberoamericano de Soluciones Sistémicas para la transformación de las Organizaciones. "Análisis Causal de Sectores Económicos mediante la Aplicación Smarta". Madrid. Spain
- 2018. Simposio Internacional de Métodos Matemáticos. "Cubrimiento e invariabilidad: una teoría sistémica de ecosistemas". San José. Costa Rica.
- 2018. Business Systems Laboratory International Symposium 2018. "Product Life Cycle: Coverage and Invariability". Naples. Italy.
- 2017. World Research Summit for Tourism and Hospitality. "A new network point of view in labour markets and tourism". Orlando. USA.
- 2016. Mathematical Modelling in Engineering & Human Behaviour. "Modelling social systems: a new network point of view in labour markets". Valencia. Spain.
- 2016. International Conference Computational and Mathematical Methods in Science and Engineering. "Analytical Study of Labour Markets Based on Graph Theory". Cadiz. Spain.
- 2016. EAA Euroregio. Congress on Sound and Vibration. "Detectability of electric motorcycles". Porto. Portugal.
- 2014. ICCS 2014: International Conference on Complex Systems. "A Sociocybernetics Data Analysis Using Causality in Tourism Networks". Amsterdam. Holland.
- 2013. Symposium on Cybernetics & Systems Research, Informatics, Logic, Mathematics, & Artificial Intelligence. "Ideological Systems: A Mathematical Approach". Baden Baden. Germany.
- 2010. Second International Conference on Science in society. Permission and "Prohibition in Social Systems Structure". Madrid. Spain.
- 2009. The 21th Anniversary Conference on Systems Research, Informatics and Cybernetics. "A Walford's metadynamic Point of View of Ecosustainability Ideology (II)". Baden Baden. Germany.

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Recent Books

- J.L. Usó-Domènech and J.A. Nescolarde-Selva. (2012). *Mathematic and Semiotic Theory of Ideological Systems. A systemic vision of the Beliefs*. LAP LAMBERT Academic Publishing. Saarbrücken. Germany. ISBN: 978-3-8443-9815-1.