SERAFÍN MARTÍNEZ JARAMILLO
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Updated: November 2026

EXPERIENCE

CEMLA
Director of Macroeconomic Analysis and Information **November 2026 - present**

World Bank Group,
Senior Financial Sector Specialist October **2024 - present**
Senior Financial Sector Specialist at the Financial Resilience and Integrity Unit.

London School of Economics and Political Science,
Visiting Professor in Practice **2024 - present**

Banco de Mexico, México
Manager **November 2021 - September 2024**
Manager of the Environmental and Social Risk Analysis and Policy Unit.

Secondment at CEMLA **January 2019 - October 2021**
Adviser to the General Director at the Center for Latin American Monetary Studies in charge of the Financial Stability and Financial Markets Infrastructures Directorates.

Financial Researcher and Senior Financial Researcher **October 2006 - December 2018**
Financial researcher and more recently senior financial researcher on systemic risk, financial contagion, bankruptcy prediction and financial networks.

Study leave **October 2001 - September 2006**
Study leave for master and PhD studies.

Computer systems analyst **May 1997 - October 2001**

Computer systems analyst to select the tools for the institutional Datawarehouse and Datawarehouse developer for the Financial System Analysis General Directorate.

University of Essex, Colchester, Essex, UK
Graduate Teaching Assistant **October 2002 - 2006**
Teaching assistant for undergraduate and graduate courses in: introduction to databases, advanced databases, constraint satisfaction, machine learning and neural networks.

Universidad Nacional Autónoma de México (UNAM), Ciudad Universitaria, México
Teacher and Teaching Assistant **August 1995 - 1997**
Teacher and Teaching assistant for undergraduate courses in: introduction to programming, advanced programming, Networks analysis and advanced topics on operations research

Electrical Research Institute (IIE), Cuernavaca, México
Research Assistant **1995 - 1996**
Research assistant for the project of measuring the energy savings due to the implementation in México of the daylight saving time program.

EDUCATION

Doctor of Philosophy in Computational Finance, University of Essex, U. K.
Master in Computer Science, University of Essex, U. K.
Actuarial Sciences, Universidad Nacional Autónoma de México, México

HONOURS AND AWARDS

Mexican National Council of Sciences and Technology (CONACyT) Postgraduate Studies Scholarship, 2001-2006
Scholarship for postgraduate studies, Banco de Mexico, 2002-2003
Member of the Mexican National Researchers System (SNI), 2009 - 2011
Member of the Mexican National Researchers System Level I (SNI), 2012 - 2014
Member of the Mexican National Researchers System Level I (SNI), 2015 - 2018
Member of the Mexican National Researchers System Level II (SNI), 2019 - 2024
Visiting Fellow, University of Essex, United Kingdom, 2011-2013 Visiting Fellow, University of Essex, United Kingdom, 2014-2016

Visiting Professor in Practice, London School of Economics and Political Science, United Kingdom, 2024-present

SELECTED PUBLICATIONS

1. Lopez-Morales, C., K. Caballero Guendulain, S. Basurto Hernandez, L. Escobar Farfan, and S. Martinez Jaramillo, (2026), “Understanding the double materiality of nature-related financial risks”: Evidence from the Mexican economy, under review at the Journal of Cleaner Production.
2. Estrada, F., M. A. Altamirano, O. Calderon-Bustamante, Rodrigo Muñoz-Sanchez, Alejandra Salazar, Luis O. L. Escobar-Farfan, W.J. Wouter Botzen, S. Martinez-Jaramillo, S. Battiston, (2026), “Assessing the physical risks of climate change for the financial sector: a case study from Mexico’s Central Bank," Ecological Economics, Volume 249, 109119, ISSN 0921-8009, https://doi.org/10.1016/j.ecolecon.2026.109119
3. Salazar, A., J. Edmonds, S. Battiston, S. Martinez-Jaramillo, M. Zwerling, (2026) “Decarbonization and non-cooperating strategies: a case for Mexico," Energy and Climate Change, Volume 7, December 2026, 100242.
4. Frost, J., C. Madeira, S. Martinez Jaramillo, (2025), “The Economics of Water Scarcity," Policy Research Working Paper, Prosperity Washington, D.C., World Bank Group. http://documents.worldbank.org/curated/en/099457511172536429
5. Boeddu, G., E. Feyen, S. Martinez Jaramillo, S. Mesquita, Y. Palta, A. Sarkar, S. Sinha, and A. Gutiérrez Traverso, (2025) \Artificial Intelligence for Financial Sector Supervision: An Emerging Market and Developing Economies Perspective" (2025). Washington, D.C.: World Bank Group. http://documents.worldbank.org/curated/en/099110525115015626
6. G. Halaj, S. Martinez-Jaramillo and S. Battiston, (2024), “Financial stability through the lens of complex systems," Journal of Financial Stability, Volume 71, 101228, ISSN 1572-3089, https://doi.org/10.1016/j.jfs.2024.101228.
7. S. Martinez-Jaramillo and Romain Svartzman (coordinators), (2023), “Recommendations toward the development of scenarios for assessing nature-related economic and financial risks," NGFS Technical document.
8. Martinez-Jaramillo S., F. Mora, Luis O.L. Escobar-Farfán, Ricardo Montañez-Enríquez, (2023), “Dependencies and impact of the Mexican banking sector on ecosystem services", Banco de México Report.
9. Bush, G. S. Martnez-Jaramillo, L.O.L. Escobar-Farfn, and E. Flores-Tams, (2023), “Currency relationships over time: a network analysis and case study of Mexico," Book Chapter in Foreign Exchange Constraint and Developing Economies, edited by Aleksandr Gevorkyan, ElgarOnline.
10. Martinez-Jaramillo S., R Montañez-Enríquez, M. Ossandon Busch, Manuel Ramos-Francia, Anahi Rodriguez-Martinez and Jose Manuel Sanchez-Martinez, (2022), “Stress-ridden Finance

and Growth Losses: Does Financial Development Break the Link?," IWH DISCUSSION PAPERS, 3/2022

11. NGFS-INSPIRE, (2022), “Central banking and supervision in the biosphere: An agenda for action on biodiversity loss, financial risk and system stability," NGFS Ocassional Paper
12. Matias Ossandon Busch, Jose Manuel Sanchez Martinez, Anahi Rodriguez Martinez, Ricardo Montañez Enríquez, Serafin Martinez Jaramillo, (2022), “Growth at risk: Methodology and applications in an open-source platform," Latin American Journal of Central Banking, Volume 3, Issue 3, 100068, ISSN 2666-1438
13. Eduardo Yanquen, Giacomo Livan, Ricardo Montañez-Enriquez, Serafin Martinez-Jaramillo, (2022), “Measuring systemic risk for bank credit networks: A multilayer approach," Latin American Journal of Central Banking, Volume 3, Issue 2, 100049, ISSN 2666-1438
14. Torinelli, V., S. Martinez-Jaramillo, (2022), “Central Banks in Latin America: Actions for Sustainability, Including Mitigation and Adaptation Policies for Climate-Related Risks," N. Bilotta and F. Botti (Eds), Paving the Way for Greener Central Banks. Current Trends and Future Developments around the Globe, Edizioni Nuova Cultura
15. Torinelli, V.H., Silva, A.F.A. Jr., Andrade, J.C.S., & Martinez-Jaramillo, S. (2021). Latin America (LatAm) Central Banks (CBs) environmental risk management of the international reserves: an applied framework discussion. XXIII ENGEMA, Conference Proceedings, 120.
16. Walter Cuba, Anahi Rodriguez-Martinez, Diego A. Chavez, Fabio Caccioli, Serafin Martinez Jaramillo, (2021), “A network characterization of the interbank exposures in Peru," Latin American Journal of Central Banking, Volume 2, Issue 3, 100035, ISSN 2666-1438
17. Victoria Landaberry, Fabio Caccioli, Anahi Rodriguez-Martinez, Andrea Baron, Serafin Martinez Jaramillo, Rodrigo Lluberas, (2021), “The contribution of the Intra-firm exposures network to systemic risk", Latin American Journal of Central Banking, Volume 2, Issue 2, 100032, ISSN 2666-1438
18. Isela-Elizabeth Tellez-Leon, Serafin Martínez-Jaramillo, Luis O. L. Escobar-Farfan, Ronald Hochreiter, (2021) “How are network centrality metrics related to interest rates in the Mexican secured and unsecured interbank markets?," Journal of Financial Stability, Volume 55, 100893, ISSN 1572-3089
19. Alan Roncoroni, Stefano Battiston, Luis O.L. Escobar-Farfn, Serafin Martinez-Jaramillo, (2021) “Climate risk and financial stability in the network of banks and investment funds," Journal of Financial Stability, Volume 54, 100870, ISSN 1572-3089
20. Sebastian Poledna, Serafin Martínez-Jaramillo, Fabio Caccioli, Stefan Thurner, (2021), “Quantification of systemic risk from overlapping portfolios in the financial system," Journal of Financial Stability, Volume 52,100808, ISSN 1572-3089
21. Carmona C.U., Martinez-Jaramillo S. (2020) Learning of Weighted Multi-layer Networks via Dynamic Social Spaces, with Application to Financial Interbank Transactions. In: Cherifi H.,

Gaito S., Mendes J., Moro E., Rocha L. (eds) Complex Networks and Their Applications VIII. COMPLEX NETWORKS 2019. Studies in Computational Intelligence, vol 882. Springer, Cham.

22. Jonnathan Caceres-Santos, Anahi Rodriguez-Martinez, Fabio Caccioli, Serafin Martinez-Jaramillo, (2020), “Systemic risk and other interdependencies among banks in Bolivia," Latin American Journal of Central Banking, Volume 1, Issues 14, 100015, ISSN 2666-1438
23. Serafin Martinez-Jaramillo, Christian U. Carmona, Dror Kenett, (2019), “Interconnectedness and financial stability", Journal of Risk Management in Financial Institutions Vol. 12, 2 168183, Henry Stewart Publications
24. Stefano Battiston, Serafin Martinez-Jaramillo, (2018), “Financial networks and stress testing: Challenges and new research avenues for systemic risk analysis and financial stability implications," Journal of Financial Stability, Volume 35, Pages 6-16, ISSN 1572-3089
25. Kartik Anand, Iman van Lelyveld, Adám Banai, Soeren Friedrich, Rodney Garratt, Grzegorz Halaj, Jose Fique, Ib Hansen, Serafin Martinez Jaramillo, Hwayun Lee, José Luis Molina Borboa, Stefano Nobili, Sriram Rajan, Dilyara Salakhova, Thiago Christiano Silva, Laura Silvestri, Sergio Rubens Stancato de Souza, (2018), “The missing links: A global study on uncovering financial network structures from partial data," Journal of Financial Stability, Volume 35, Pages 107-119, ISSN 1572-3089
26. de la Concha A., Martinez-Jaramillo S., Carmona C. (2018) Multiplex Financial Networks: Revealing the Level of Interconnectedness in the Banking System. In: Cherifi C., Cherifi H., Karsai M., Musolesi M. (eds) Complex Networks & Their Applications VI. COMPLEX NETWORKS 2017. Studies in Computational Intelligence, vol 689. Springer, Cham.
27. Usi Lopez, M., S. Martinez-Jaramillo & F. Lopez-Gallo (2017), “The repo market in Mexico: empirics and stylized facts," Neurocomputing, Volume 264, Pages 2-19, ISSN 0925-2312, Special Issue on Machine Learning Applications in Finance.
28. Levin, G., C. Lopez, F. Lopez Gallo & S. Martinez-Jaramillo (2017), \International banking and cross-border effects of regulation: the case of Mexico," International Journal of Central Banking 13(2):249-271.
29. Batiz-Zuk, E., F. Lopez-Gallo, S. Martinez-Jaramillo & J. P. Solorzano-Margain (2016), “Calibrating limits for large interbank exposures from a system-wide perspective", Journal of Financial Stability, Vol 27, pp 198216.
30. Basel Committee on Banking Supervision (2015), “Making supervisory stress tests more macroprudential: Considering liquidity and solvency interactions and systemic risk," Basel Committee on Banking Supervision Working Paper No. 29, November 2015.
31. Poledna, S., Molina-Borboa, J. L., Martinez-Jaramillo, S., van der Leij, M., and Thurner, S. (2015). “The multi-layer network nature of systemic risk and its implications for the costs of financial crises.", Journal of Financial Stability, Vol. 20, October 2015, pp 70{81
32. Martinez-Jaramillo, S., J. L. Molina-Borboa, B. Bravo Benitez (2015). “The Role of Financial Market Infrastructures in Financial Stability: An Overview," The Economics of Financial Market

Infrastructures, Diehl, M., Alexandrova-Kabadjova B., Heuver R. & Martinez-Jaramillo S., editors IGI Global.

33. Molina Borboa J. L., S. Martinez-Jaramillo, F. Lopez-Gallo, M. van der Leij (2015). “Link persistence and overlapping: a multiplex network analysis of the Mexican banking system," Journal of Network Theory in Finance, 1(1), pp 99-138
34. Bravo-Benitez B., B. Alexandrova-Kabadjova, S. Martinez-Jaramillo, (2014). “Centrality Measurement of the Mexican Large Value Payments System from the Perspective of Multiplex Networks," Computational Economics, doi:10.1007/s10614-014-9477-0, pp 1-29.
35. Martinez-Jaramillo, S., B. Alexandrova-Kabadjova, G. Sierra and Elena B. Lozanova, (2014), “Financial education and financial inclusion: How lexicography makes sense," Proceedings of the Istanbul 9th International Academic Conference - The IISES 13th to 16th April 2014, Turkey, ISBN 978-80-87927-00-7.
36. Martinez-Jaramillo S., B. Alexandrova-Kabadjova, B. Bravo-Benitez & J. P. Solorzano-Margain (2014), “An Empirical Study of the Mexican Banking System’s Network and its Implications for Systemic Risk," Journal of Economic Dynamics & Control, March 2014, Volume 40, pp 242-265.
37. Basel Committee on Banking Supervision (2013), “Liquidity stress testing: a survey of theory, empirics and current industry and supervisory practices", Basel Committee on Banking Supervision Working Paper No. 24, October 2013.
38. Basel Committee on Banking Supervision (2013), \Literature review of factors relating to liquidity stress extended version", Basel Committee on Banking Supervision Working Paper No. 25, October 2013.
39. Solorzano-Margain, J. P., S. Martinez-Jaramillo & F. Lopez-Gallo (2013), “Financial contagion: Extending the exposures network of the Mexican financial system", Computational Management Science, June 2013, Volume 10, Issue 2-3, pp 125{155, Springer.
40. Garcia-Almanza A. L., B. Alexandrova-Kabadjova & S. Martinez-Jaramillo (2013), “Bankruptcy Prediction for Banks: An Artificial Intelligence Approach to Improve Understandability," Artificial Intelligence, Evolutionary Computing and Metaheuristics In the Footsteps of Alan Turing, Studies in Computational Intelligence series, vol. 427, editor Xin-She Yang, Springer Berlin / Heidelberg, pp. 633-656, 2013.
41. Lopez-Castañon C., S. Martinez-Jaramillo & F. Lopez-Gallo (2012), “Systemic Risk, Stress Testing, and Financial Contagion: Their Interaction and Measurement," Simulation in Computational Finance and Economics: Tools and Emerging Applications, editors B. Alexandrova Kabadjova, S. Martinez-Jaramillo, A. L. Garcia-Almanza, E. Tsang, IGI Global, pp. 181-210, 2012
42. Garcia-Almanza, A. L., S. Martinez-Jaramillo, B. Alexandrova-Kabadjova and Edward Tsang (2011), “Early signals for supervisory actions to prevent bank bankruptcy," Information Systems for Global Financial Markets: Emerging Developments and Effects, editor A. Yap, IGI Global, pp. 369-382, 2011.

43. Peña, T., S. Mart´ınez-Jaramillo & B. Abudu. (2011). “Bankruptcy Prediction: A Comparison of Some Statistical and Machine Learning Techniques," Dawid, Herbert; Semmler, Willi (Eds.), Computational Methods in Economic Dynamics, Springer, 2011.
44. Martinez-Jaramillo S., O. Perez-Perez, F. Avila-Embriz & F. Lopez-Gallo. (2010). “Systemic Risk, Financial Contagion and Financial Fragility," Journal of Economic Dynamics and Control, Vol. 34, No. 11, pp. 2358-2374.
45. Martinez-Jaramillo S., A. L. García-Almanza, B. Alexandrova-Kabadjova & T. Peña-Centeno. (2010) “Evolutionary Computation in Finance," Encyclopedia of Machine Learning, Springer-Verlag Berlin Heidelberg.
46. Martinez-Jaramillo S., B. Alexandrova-Kabadjova & A. L. García-Almanza. (2010). “Evolutionary Computation in Economics," Encyclopedia of Machine Learning, Springer-Verlag Berlin Heidelberg.
47. García-Almanza A. L., B. Alexandrova-Kabadjova & S. Martinez-Jaramillo. (2010). “Evolutionary Computational Techniques in Marketing," Encyclopedia of Machine Learning, SpringerVerlag Berlin Heidelberg.
48. García-Almanza A. L., B. Alexandrova-Kabadjova & S. Martinez-Jaramillo. (2010). “Understanding Bank Failure: A Close Examination of Rules Created by Genetic Programming," IEEE Electronics, Robotics and Automotive Mechanics Conference, DOI 10.1109/CERMA.2010.14, pp. 34-39.
49. Martinez-Jaramillo, S. & E. Tsang. (2009). “An Heterogeneous, Endogenous and Coevolutionary GP-Based Financial Market," IEEE Transactions on Evolutionary Computation, IEEE Press, Vol. 13, Num. 1, pp. 33-55.
50. Martinez-Jaramillo, S. & E. Tsang. (2009). “Evolutionary Computation and Artificial Financial Markets," Natural Computing in Computational Finance, Vol. 185, A. Brabazon y M. O’Neill (eds.), Springer-Verlag Berlin Heidelberg, pp. 137-179.
51. Marquez, J. & S. Martinez-Jaramillo. (2009). “A Network Model of Systemic Risk: Stress Testing the Banking System," Intelligent Systems in Accounting, Finance and Management, Vol. 16, pp. 87-110.
52. Markose, S., E. Tsang & S. Martinez-Jaramillo. (2005). “The Red Queen Principle and the Emergence of Efficient Financial Markets: An Agent Based Approach," Nonlinear Dynamics and Heterogeneous Interacting Agents, Lecture Notes: Economics and Mathematical Systems, Springer-Verlag Berlin Heidelberg, Vol. 550, pp. 287-303.
53. Tsang E. & S. Martinez-Jaramillo. (2004). “Computational Finance," IEEE Computational Intelligence Society, IEEE Press, pp. 3-8.

SELECTED CONFERENCES, SEMINARS AND WORKSHOPS

25/ago/2020; Digital Course on RegTech and SupTech, Financial Networks, Mexico,

28/feb/2018; XXIX Congreso Nacional de Actuaria en la UDLAP, Modelando Riesgo Sistmico mediante redes Multiplex, Mexico, Keynote Speech,

01/oct/2018; XIII Annual Conference on Financial Stability and Banking, Which network measures explain the interest rate spread in the Mexican secured and unsecured interbank markets? An econometric analysis of financial networks, Brazil,

13/mar/2019; Regional Seminar on Basel III and its Implementation Challenges, Basel III & large exposures implementation in LAC, Brazil,

31/may/2019; Canadian Economics Association - Annual Conference 2019, Which Network Measures explain the Interest Rate Spread in the Mexican Interbank Markets a study by 13 regularized GLMs with Machine Learning, Banf Canada,

16/ago/2019; IFC-BNM Satellite Seminar on Statistics on Fintech bringing together demand and supply to measure its impact, FinTech Data Challenges, Malaysia,

05/sep/2019; CEMLA IX Meeting on Financial Stability, Quantification of systemic risk from overlapping portfolios in the financial system, Uruguay,

11/sep/2019; Regional course on Financial Markets, The Repo Market in Mexico: Empirics and stylized facts, Bahamas

29/oct/2019; XXIV Meeting of the Central Bank Researchers Network, Quantification of systemic risk from overlapping portfolios in the financial system, Spain, Keynote Speech

30/oct/2019; XXIV Meeting of the Central Bank Researchers Network, Cluster and network analysis for business models in the Mexican banking system, Spain,

18/feb/2020; Course on Financial Technologies and Central Banking, Introduction to Financial Networks, Jamaica,
18/ago/2020; III Meeting of the Fintech Forum, CEMLA's Innovation Hub, Mexico,

17/feb/2017; FMA Latin American Conference, Panel Session on Market Infrastructure and Financial Stability, Mexico, Round Table Participant

30/jun/2017; 2017 RiskLab/BoF/ESRB Conference on Systemic Risk Analytics, Multiplex financial networks revealing the level of interconnectedness in the banking system, Finland

18/sep/2017; Conference on Complex Systems, Quantification of systemic risk from overlapping portfolios in the financial system, Mexico,
19/sep/2017; Conference on Complex Systems, Multiplex financial networks: revealing the level of interconnectedness in the banking system, Mexico,

20/sep/2017; Conference on Complex Systems, On Relations in the Unsecured and Secured Overnight Interbank Lending Markets, Mexico,

21/sep/2017; Conference on Complex Systems, Panel discussion on Complex Financial Networks And Systemic Risk: Policy implications to financial stability, Mexico, Round Table Participant

26/sep/2017; Network models and stress testing for financial stability, Network models and stress testing for financial stability, Mexico,

29/nov/2017; The 6th International Conference on Complex Networks and Their Applications, Multiplex financial networks: revealing the level of interconnectedness in the banking system, France, Poster

23/ene/2018; Cuarto Congreso de Actuaria de la Facultad de Ciencias, UNAM, Modelado de Riesgo Sistmico Mediante Redes Multiplex, Mexico, Keynote Speech

“On Relations in the Unsecured and Secured Overnight Interbank Lending Markets" World Congress of the Econometrics Society, 17 - 21 August 2015, Palais des Congress; Montreal Canada.

“The multiplex network nature of financial systemic risk and its implications" Seminar on Network Analysis and Financial Stability Issues, December 10 - 11, 2014, CEMLA, Mexico City.

“Liquidity Hoarding in the Interbank Market", Conference on Collateral, Liquidity and Central Bank Operations, 10-11 September 2014. Bank of Canada, Ottawa, Canada.

“Calibrating limits for large interbank exposures from a system-wide perspective", "Conference on Data Standards, Information and Financial Stability" 11-12 April 2014. Loughborough University, UK.

“Calibrating limits for large interbank exposures from a system-wide perspective", "Financial Networks Workshop" 23 October 2013. Deutsche Bundesbank, Frankfurt, Germany.

“Financial contagion: extending the exposures network of the Mexican financial system", Networks: A new Understanding for Practical International Economics, 21 May 2013. World Bank, Washington DC, US.
“Calibrating limits for large interbank exposures from a system-wide perspective", 4th BIS Consultative Council for the Americas conference "Financial stability, macroprudential policy and exchange rates" 25-26 April 2013. Central Bank of Chile, Santiago, Chile.

“An Empirical Study of the Mexican Banking System’s Network and its Implications for Systemic Risk", Workshop on supervising financial networks 13-14 February 2013. Deutsche Bundesbank, Frankfurt am Main (Eltville), Germany.

“Systemic risk measurement: Challenges and Opportunities", CCFEA’s 10th Anniversary Workshop,7 November 2012. University of Essex Colchester, UK.

“An Empirical Study of the Mexican Banking System’s Network and its Implications for Systemic Risk", Latsis Symposium 12-14 September 2012. ETH Zurich, Switzerland.

“Systemic Risk Analysis by means of Network Theory: An Empirical Study of the Mexican Banking System", Financial Stability Internal Seminar, Bank of Canada, Canada 2012.

“Network Models For Systemic Risk Monitoring", IMF Conference Operationalizing Systemic Risk Monitoring, Washington DC 2010.

“Systemic Risk, Financial Contagion And Stress Testing: Their Interaction And Measurement", BIS Conference Systemic risk, bank behaviour and regulation over the business cycle, Buenos Aires 2010.

“SYRNET: A Network Model Of Systemic Risk", 3rd Annual Risk Management Conference Systemic Risk, Singapore 2009.

“A Network Model Of Systemic Risk", Federal Reserve of Chicago Meeting, Chicago USA 2008.

“A Network Simulation Model For Systemic Risk Evaluation", Workshop for non-supervisory Central Banks, Mexico 2008.

“Bankruptcy Prediction: A Comparison Of Some Statistical And Machine Learning Techniques", 14th International Conference on Computing in Economics and Finance, Paris France 2008.

“Systemic Risk: Stress Testing The Banking System", IMF Meeting on Stress Testing , Amsterdam Netherlands 2007.

“Financial Contagion: A Network Model For Estimating The Distribution Of Losses", 13th International Conference on Computing in Economics and Finance, Montreal Canada 2007.

“Co-Evolution Of Genetic Programming Based Agents", 12th International Conference on Computing in Economics and Finance, Limasol Cyprus 2006,

“The Red Queen Principle And The Emergence Of Efficiency In Financial Markets" 8th Workshop on Economics and Heterogeneous Interacting Agents, Kiel Germany 2003.

EDITORIAL DUTIES

Co-editor of the books:

- Martin Diehl, Biliana Alexandrova-Kabadjova, Richard Heuver & Serafn Martnez-Jaramillo (2015) “Analyzing the Economics of Financial Market Infrastructures", IGI Global, 2015.
- Alexandrova-Kabadjova, B.; Martinez-Jaramillo, S.; Garcia-Almanza, A.L.; Tsang, E. (2012) “Simulation in Computational Finance and Economics: Tools and Emerging Applications", IGI Global, 2012.

Guest editor of the special issues:

- “IV Conference on Financial Stability: Financial stability through the lens of complex systems "At the Journal of Financial Stability, 2024
- “Network models and stress testing for financial stability" at the Journal of Financial Stability 2021
- “Big Data and Data Science in Financial Markets Infrastructues" at the Journal of Financial Market Infrastructures, 2021
- “Economic and Financial Networks" at the journal Complexity 2020
- “Network models, stress testing and other tools for financial stability monitoring and macroprudential policy design and implementation" at the Journal of Financial Stability, 2018

Editorial committee member of:

- Latin American Journal of Central Banking
- Journal of Financial Stability
- Journal of Economic Interaction & Coordination
- Complexity
- Journal of Network Theory in Finance

Referee for the journals:

- Applied Intelligence
- IEEE Transactions on Evolutionary Computation
- Journal of Economic Dynamics & Control
- Journal of Financial Stability
- Neural Computing and Applications
- International Journal of Modern Physics C
- Journal of Network Theory in Finance
- Journal of Banking and Finance
- PLOS One
- Complexity
- Emerging Markets Review
- International Journal of Finance