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Senior Teaching Fellow
Aston Business School
College of Business and Social Sciences
Operations & Information Management
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Qualifications

PG Cert, Teaching and Learning in Higher Education
1 Sept 2022 → 4 Jul 2023
Award Date: 4 Jul 2023

PG Dip
2015 → 2016
Award Date: 31 Dec 2016

PhD, Performance in Organisations, An Autonomous Systems Approach , Lincoln University
22 Sept 1999 → 3 Nov 2003
Award Date: 3 Nov 2003

MBA, Instituto Tecnológico y de Estudios Superiores de Monterrey
Sept 1993 → Jul 1996
Award Date: 28 Feb 1997

BSc, Aeronautical Engineering, Instituto Politécnico Nacional
Sept 1988 → Feb 1993
Award Date: 2 Jul 1993

Employment

Aston Business School

College of Business and Social Sciences
United Kingdom
3 Aug 2021 → present

College of Business and Social Sciences

3 Aug 2021 → present

Senior Teaching Fellow

Operations & Information Management
College of Business and Social Sciences
3 Aug 2021 → present

External Examiner

Lincoln University
Lincoln, United Kingdom
1 Oct 2022 → 31 Dec 2024

Profesor Distinguido, Industrial Engineering UP

Universidad Panamericana
Mexico
3 Jan 2022 → 31 Jul 2022

Educational Innovation Track Leader, MIT SCALE Network Latin America

Massachusetts Institute of Technology
Cambridge, MA, United States

Research outputs

Implementing a challenge-based learning experience in a bioinstrumentation blended course

Santos-Díaz, A., Montesinos, L., Barrera-Esparza, M., del Mar Perez-Desentis, M. & Salinas-Navarro, D. E., Dec 2024, In: BMC Medical Education. 24, 1, 10 p., 510.

(Re-)shaping learning experiences in supply chain management and logistics education under disruptive uncertain situations

Salinas-Navarro, D. E., Pacheco-Velázquez, E. & Silva-Ovando, A. C. D., 21 Feb 2024, In: Frontiers in Education. 9, 1348194.

Developing learning skills through game-based learning in complex scenarios: a case in undergraduate logistics education

Pacheco Velázquez, E. A., Rodés Paragarino, V. & Salinas Navarro, D., 30 Jan 2024, In: Journal of Technology and Science Education. 14, 1, p. 169-183 15 p.

Experiential Learning for Circular Operations Management in Higher Education

Salinas-Navarro, D. E., Arias-Portela, C. Y., Cruz, J. R. G. D. L. & Vilalta-Perdomo, E., 17 Jan 2024, In: Sustainability. 16, 2, 798.

Educational Innovation in Supply Chain Management and Logistics for Active Learning in Latin America

Salinas-Navarro, D. E., Pacheco, E., da Silva-Ovando, A. C., Mejia-Argueta, C. & Chong, M., 15 Jan 2024, In: Journal of International Education in Business. 17, 1, p. 148-169 22 p.

Using Generative Artificial Intelligence Tools to Explain and Enhance Experiential Learning for Authentic Assessment

Salinas-Navarro, D. E., Vilalta-Perdomo, E., Michel-Villarreal, R. & Montesinos, L., 12 Jan 2024, In: Education Sciences. 14, 1, 83.

Advancing Community Operational Research education for improving learning relevance and community engagement

Salinas-Navarro, D. E., 10 Nov 2023, p. 1-9. 9 p.

Experiential Learning Labs for Sustainable Development: A Case Study in Community Operational Research Education

Salinas-Navarro, D. E., 10 Nov 2023, p. 1-11. 11 p.

The Community Resilience and Sustainability Education Lab: Promoting responsible management education through innovative learning experiences

Salinas-Navarro, D. E., Vilalta Perdomo, E., Michel-Villarreal, R. & Cho, A. R., 10 Nov 2023, p. 1-14. 14 p.

Serious Games and Experiential Learning: Options for Engineering Education

Pacheco-Velázquez, E., Salinas-Navarro, D. E. & Ramírez-Montoya, M. S., 4 Sept 2023, In: International Journal of Serious Games. 10, 3, p. 3-21 19 p.

Challenges and Opportunities of Generative AI for Higher Education as Explained by ChatGPT

Michel-Villarreal, R., Vilalta Perdomo, E., Salinas-Navarro, D. E., Thierry-Aguilera, R. & Gerardou, F. S., 23 Aug 2023, In: Education Sciences. 13, 9, 18 p., 856.

Supply chains as 'formal systems': Exploring systems thinking approaches to design and manage supply chains

Vilalta Perdomo, E., Salinas-Navarro, D. E. & Michel-Villarreal, R., 5 Jul 2023, (Unpublished).

Expanding the Concept of Learning Space in Biomedical Engineering Education using Wearable Devices and Cloud-based Collaborative Programming Environments

Montesinos, L., Santos-Díaz, A., Salinas-Navarro, D. E. & Cendejas-Zaragoza, L., 21 Apr 2023, *2023 Future of Educational Innovation-Workshop Series Data in Action, FEIWS 2023*. IEEE, p. 1-5 5 p.

Transdisciplinary experiential learning in biomedical engineering education for healthcare systems improvement

Montesinos, L., Salinas-Navarro, D. E. & Santos-Díaz, A., 3 Apr 2023, In: BMC Medical Education. 23, 1, 13 p., 207.

A Systems Perspective on Social Indicators for Circular Supply Chains

Hidalgo-Carvajal, D., Picanço-Rodrigues, V., Mejía-Argueta, C. & Salinas-Navarro, D. E., 16 Mar 2023, *The Social Dimensions of the Circular Economy*. Vazquez-Brust, D. A. & Campos, L. M. S. (eds.). Springer Nature Switzerland AG, p. 27-52 26 p. (Greening of Industry Network Studies; vol. 10).

Workshop: Learning experiences for educational leadership and innovation in engineering education

Salinas-Navarro, D. E., Silva-Ovando, A. C. D. & Chong, M., 15 Mar 2023, *EDUNINE 2023 - 7th IEEE World Engineering Education Conference: Reimagining Engineering - Toward the Next Generation of Engineering Education, Merging Technologies in a Connected World, Proceedings*. da Rocha Brito, C. & Ciampi, M. M. (eds.). IEEE, p. 1-3 3 p. 10102854

Business Decision-Making and Complex Thinking: A Bibliometric Study

Pacheco-Velázquez, E. A., Vázquez-Parra, J. C., Cruz-Sandoval, M., Salinas-Navarro, D. E. & Carlos-Arroyo, M., 9 Mar 2023, In: *Administrative Sciences*. 13, 3, 17 p., 80.

Digitally Enabled Experiential Learning Spaces for Engineering Education 4.0

Salinas-Navarro, D. E., Garay-Rondero, C. L. & Arana-Solares, I. A., Jan 2023, In: *Education Sciences*. 13, 1, 35 p., 63.

Digitalization of the Logistics Process in Short Food Supply Chains. An online Viable System Model application during the COVID-19 pandemic

Vilalta-Perdomo, E., Salinas-Navarro, D. E., Michel-Villarreal, R. & García Bustamante, R., 2 Nov 2022, (E-pub ahead of print) In: *Systemic Practice and Action Research*. 26 p.

Experiential Learning for Sustainability in Supply Chain Management Education

Salinas-Navarro, D. E., Mejía-Argueta, C., Montesinos, L. & Rodríguez-Calvo, E. Z., 13 Oct 2022, In: *Sustainability*. 14, 20, 13133.

Reflexiones desde la práctica docente: experiencias de aprendizaje para la educación en Ingeniería Industrial en la pospandemia

DAVID, ERNESTO. SALINAS-NAVARRO., Silva-Ovando, A. C. D., Mejía-Argueta, C. & Chong, M., 20 Sept 2022, In: *Apuntes*. 49, 92, p. 151-182 32 p., 1745.

The impact of supply chain operations on the sustainability of cities and their communities

Salinas-Navarro, D. E., 14 Sept 2022, (Unpublished).

Experiential Learning in Biomedical Engineering Education Using Wearable Devices: A Case Study in a Biomedical Signals and Systems Analysis Course

Montesinos, L., Santos-Díaz, A., Salinas-Navarro, D. E. & Cendejas-Zaragoza, L., 2 Sept 2022, In: *Education Sciences*. 12, 9, 21 p., 598.

A Framework for Educational Innovation in Logistics and Supply Chain Management, a Research Agenda

Salinas-Navarro, D. E., Ovando, A. C. D. S., Argueta, C. M. & Chong, M., 31 May 2022, *EDUNINE 2022 - 6th IEEE World Engineering Education Conference: Rethinking Engineering Education After COVID-19: A Path to the New Normal, Proceedings*. Brito, C. D. R. & Ciampi, M. M. (eds.). IEEE, (EDUNINE 2022 - 6th IEEE World Engineering Education Conference: Rethinking Engineering Education After COVID-19: A Path to the New Normal, Proceedings).

Design a challenge-based learning model for higher education, an application in a beverage company

Silva-Ovando, A. C. D., Quintana, O. S. O., Salinas-Navarro, D. E. & Chong, M., 31 May 2022, *EDUNINE 2022 - 6th IEEE World Engineering Education Conference: Rethinking Engineering Education After COVID-19: A Path to the New Normal, Proceedings*. Brito, C. D. R. & Ciampi, M. M. (eds.). IEEE, (EDUNINE 2022 - 6th IEEE World Engineering Education Conference: Rethinking Engineering Education After COVID-19: A Path to the New Normal, Proceedings).

Work in Progress: Transforming laboratory learning experiences for Industrial Engineering education during the COVID-19 pandemic

Salinas-Navarro, D. E. & Garay-Rondero, C. L., 31 May 2022, *EDUNINE 2022 - 6th IEEE World Engineering Education Conference: Rethinking Engineering Education After COVID-19: A Path to the New Normal, Proceedings*. Brito, C. D. R. & Ciampi, M. M. (eds.). IEEE, (EDUNINE 2022 - 6th IEEE World Engineering Education Conference: Rethinking Engineering

Education After COVID-19: A Path to the New Normal, Proceedings).

Online Collaborative Design: An online Viable System Model application in practice

Vilalta Perdomo, E., Michel-Villarreal, R., Salinas-Navarro, D. E. & García-Bustamante, R., 16 Sept 2021.

Mapping the logistics of Short Food Supply Chains (FV)

Vilalta Perdomo, E., Michel/Villarreal, R., Salinas-Navarro, D. E. & Garcia/Bustamante, R., Sept 2021.

Experiential learning for sustainable urban mobility in industrial engineering education

Salinas-Navarro, D. E. & Garay-Rondero, C. L., 18 Mar 2021, *2020 IEEE International Conference on Technology Management, Operations and Decisions, ICTMOD 2020*. IEEE, 9380594. (2020 IEEE International Conference on Technology Management, Operations and Decisions, ICTMOD 2020).

Requirements of challenge based learning for experiential learning spaces, an industrial engineering application case

Salinas-Navarro, D. E. & Garay-Rondero, C. L., 8 Mar 2021, *Proceedings of 2020 IEEE International Conference on Teaching, Assessment, and Learning for Engineering, TALE 2020*. Mitsuahara, H., Goda, Y., Ohashi, Y., Rodrigo, M. M. T., Shen, J., Venkatarayalu, N., Wong, G., Yamada, M. & Chi-Un Lei, L. (eds.). IEEE, p. 1-8 8 p. 9368347. (Proceedings of 2020 IEEE International Conference on Teaching, Assessment, and Learning for Engineering, TALE 2020).

Learning experiences about food supply chains disruptions over the Covid-19 pandemic in metropolis of Latin America

Salinas-Navarro, D. E., Alanis-Uribe, A. & da Silva-Ovando, A. C., 2021, *Proceedings of the 2021 IISE Annual Conference*. Ghate, A., Krishnaiyer, K. & Paynabar, K. (eds.). p. 495-500 6 p.

Going beyond traditional approaches on industrial engineering education

Salinas-Navarro, D. E., Mejia-Argueta, C., Da Silva-Ovando, A. C. & Garay-Rondero, C. L., 4 Dec 2020, *2020 IEEE Frontiers in Education Conference, FIE 2020 - Proceedings*. IEEE, 9273891. (Proceedings - Frontiers in Education Conference, FIE; vol. 2020-October).

Increasing Competitiveness of Nanostore Business Models for Different Socioeconomic Levels

Rangel-espinoza, M. F., Hernández-arreola, J. R., Pale-jiménez, E., Salinas-navarro, D. E. & Mejía Argueta, C., 20 Nov 2020, *Supply Chain Management and Logistics in Emerging Markets: Selected Papers from the 2018 MIT SCALE Latin America Conference*. Yoshizaki, H. T. Y., Mejía Argueta, C. & Mattos, M. G. (eds.). Emerald, p. 273-298

Experiential learning in Industrial Engineering education for Digital Transformation

Salinas-Navarro, D. E. & Garay-Rondero, C. L., 15 Oct 2020, *2019 IEEE International Conference on Engineering, Technology and Education (TALE)*. IEEE, p. 1-9 9 p. 9225984. (2019 IEEE International Conference on Engineering, Technology and Education (TALE)).

Gamification and self-directed learning

Pacheco, E., Palma, J., Salinas, D. & Arana, I., 25 Sept 2020, *Proceedings of the 14th European Conference on Game Based Learning, ECGBL 2020*. Fotaris, P. (ed.). DEHEMA, p. 417-426 10 p. (Proceedings of the European Conference on Games-based Learning; vol. 2020September).

Design for Inclusion and Diversity: Developing Social Competencies in Engineering Education

Garay-Rondero, C. L., Salinas-Navarro, D. E. & Calvo, E. Z. R., 8 Jul 2020, *Advances in Industrial Design - Proceedings of the AHFE 2020 Virtual Conferences on Design for Inclusion, Affective and Pleasurable Design, Interdisciplinary Practice in Industrial Design, Kansei Engineering, and Human Factors for Apparel and Textile Engineering*. Di Bucchianico, G., Shin, C. S., Shim, S., Fukuda, S., Montagna, G. & Carvalho, C. (eds.). p. 85-92 8 p. (Advances in Intelligent Systems and Computing; vol. 1202 AISC).

Developing and Assessing Engineering Competencies at Experiential Learning Spaces

Garay-Rondero, C. L., Calvo, E. Z. R. & Salinas-Navarro, D. E., 12 Mar 2020, *2019 IEEE Frontiers in Education Conference (FIE)*. IEEE, p. 1-5 5 p. 9028355. (Proceedings - Frontiers in Education Conference, FIE; vol. 2019-October).

Experiential Learning Spaces for Industrial Engineering Education

Salinas-Navarro, D. E., Garay-Rondero, C. L. & Calvo, E. Z. R., 12 Mar 2020, *2019 IEEE Frontiers in Education Conference (FIE)*. IEEE, p. 1-9 9 p. 9028580. (Proceedings - Frontiers in Education Conference, FIE; vol. 2019-October).

Social Lab for Sustainable Logistics: Developing Learning Outcomes in Engineering Education

Salinas-Navarro, D. E. & Calvo, E. Z. R., 15 Oct 2019, *Operations Management for Social Good. POMS 2018*. Leiras, A., González-Calderón, C., de Brito Junior, I., Villa, S. & Yoshizaki, H. (eds.). Springer, p. 1065-1074 (Springer Proceedings in Business and Economics).

Experiential learning at Lean-Thinking-Learning Space

Garay-Rondero, C. L., Rodríguez Calvo, E. Z. & Salinas-Navarro, D. E., 1 Sept 2019, In: *International Journal on Interactive Design and Manufacturing*. 13, 3, p. 1129-1144 16 p.

Expanding the Concept of Learning Spaces for Industrial Engineering Education

Salinas-Navarro, D. E., Calvo, E. Z. R. & Rondero, C. L. G., 30 May 2019, *2019 IEEE Global Engineering Education Conference (EDUCON)*. Ashmawy, A. K. & Schreiter, S. (eds.). IEEE, p. 669-678 10 p. 8725047. (IEEE Global Engineering Education Conference, EDUCON; vol. April-2019).

An Overlooked Weapon in the Fight Against Malnutrition: Small Store Logistics

DAVID, ERNESTO. SALINAS-NAVARRO., Fransoo, J. C., Mejia-Argueta, C. & Benitez, V., 19 Nov 2018

Simulación para el Aprendizaje Experiencial en la Optimización y Mejora de Procesos de Servicios de Salud y Atención Hospitalaria

Salinas-Navarro, D. E., 5 Dec 2013, *Congreso de Innovación Educativa 2013: Tecnológico de Monterrey, Monterrey, Mexico*.

Performance in Organisations, An Autonomous Systems Approach

Salinas-Navarro, D. E., 28 Oct 2010, LAP Lambert Academic Publishing. 240 p.

Activities

KTP The Assay Office, Birmingham

David Ernesto Salinas-Navarro (Consultant)
2022 → 2024

Production and Operations Management Society (POMS) (External organisation)

David Ernesto Salinas-Navarro (Chair)
2022

Operational Research Society (External organisation)

David Ernesto Salinas-Navarro (Member)
2021

Center for Latin American Logistics Innovation (CLI)-Logyca

David Ernesto Salinas-Navarro (Visiting researcher)
2018 → ...

MIT SCALE Network Latin America (External organisation)

David Ernesto Salinas-Navarro (Chair)
2015

Institute of Industrial and Systems Engineers (IISE) (External organisation)

David Ernesto Salinas-Navarro (Member)
2012

Prizes

Silver Award Presence Teaching and Learning

Salinas-Navarro, David Ernesto (Recipient), 9 Dec 2018