



Sabrina BERBAIN

Department of Management, Economics & Society

Professor of Supply Chain

Faculty position : Associate Professor

ISG INTERNATIONAL BUSINESS SCHOOL

147, Avenue Victo Hugo - 75116 Paris

T +33(0)156262556

sabrina.berbain@isg.fr

Sabrina BERBAIN is Associate Professor at ISG INTERNATIONAL BUSINESS SCHOOL. She holds a Ph.D. in Computer Science and is specialized in the field of Operations Research and Supply Chain Management.

- Her current professional activity is teaching and research
- Her areas of publication are Supply Chain of Additive Manufacturing, Impacts of Industry 4.0 Implementation, Industry 4.0 Maturity Model for Emerging Economies and Future of Work.
- Her teaching specializations are Supply Chain Management, Operations Management and Digital Transformation. She is responsible for Supply Chain Management course.

Teaching Areas

Course 1: Supply Chain Management

Course 2: Operations Management

Course 3: Digital Transformation

Research Interests

Interest 1 Additive Manufacturing Supply Chain & Value Network

Interest 2: Impact of Additive Manufacturing technologies on Production (including HR issues)

Interest 3: Industry 4.0 Implementation and Smart Factory Model / Maturity mode

Interest 4: Industry 4.0 / Industry 5.0 & Future of Work

Education

2000: PhD in Computer Science, Paris-Dauphine University, France,

"Nouvelle approche de l'optimisation en temps réel des feux d'un carrefour complexe isolé par la programmation linéaire mixte en nombres entiers".

"A New Approach of Real-Time Optimization of Traffic Signals of Complex Intersection by Mixed Integer Linear Programming"

Supervisor: Vangelis Paschos, Professor at Paris-Dauphine University

1996 : Master 2 in Decision Sciences (MODO), Paris-Dauphine University

1994 : Industrial Engineer, Ecole Nationale Polytechnique.

Teaching Experiences

Year 2005 – Year 2014: Adjunct Professor of Supply Chain Management at HEC Paris

Year 1999 – Year 2021: Adjunct Professor of Production & Inventory Management at Paris-Dauphine University

Other Professional Experiences

2009 – 2016 Academic Manager of VAE Department at ISG International Business School, Paris.

2010 – 2012 Head of Management Department at ISG International Business School, Paris.

2000-2007 Supply Chain Consultant, Digma International, France

Database Management, Schlumberger Wireline & testing, France

Operations Research Consultant, EDF, France

Operations Research Researcher, Air France, France

Operations Research Researcher, SNCF, France

Publications

Book & Chapters in Book

Ojubanire, O. A., Sebti, H., and Berbain, S. (2023). Blockchain Adoption in Maritime Supply Chains: Another Catch-up Game for the African Maritime Industry? In "Digitization in Supply Chain Management: Trends, Challenges, and Solutions" edited by Carnovale, S. and Yeniyurt, S. World Scientific.

Berbain, S., Vallin, Ph. (2021). "Supply Chain : 13 études de cas corrigées", Editions Ellipses.

Articles in refereed Journals

Ojubanire, O.A., Sebti, H. & Berbain,S. (2023) Towards developing a national framework for industry 4.0 in African emerging economies, African Journal of Science, Technology, Innovation and Development, 15:4, 496-513, DOI: 10.1080/20421338.2022.2129347

Berbain, S., (2016). "Impacts de la fabrication additive sur la Supply Chain", Logistique & Management, Vol. 24 n°2.

Berbain, S., Bourbonnais, R., Vallin, Ph. (2011). "Forecasting, Production and Inventory Management of Short Life-Cycle Products: Review of Literature and Case studies", Supply Chain Forum: An International Journal, vol. 12 n°4.

Conferences

Berbain, S. (2023). "Supply Chain ou Réseau de valeur à l'ère digitale ? Leçons de la fabrication additive". 7th Edition of the International Conference on Project & Logistics, June 20-23, Luxembourg.

Berbain, S. & Sassi, N. (2022). "Impact of additive manufacturing on the production function: A case study in the aerospace industry". EAWOP, January, 11-14, Glasgow.

Ojubanire, O. A., Sebti, H., Berbain, S. (2021). « Digitalization of Manufacturing Enterprises : A Maturity Model for Emerging Economies », IEEE International Conference on Technology Management, Operations and Decisions, November, 26, Morocco.

Ojubanire, O. A., Sebti, H., Berbain, S. (2021). « Industry 4.0 in Advanced Economies : Implications and Lessons for Moroccan Industry », Colloque International du Management Industriel & Logistique, May, 28 & 29, Morocco.

Berbain, S., (2020). « Urban Traffic Control of a Complex Junction », 2nd International Conference on Deep Learning, Artificial Intelligence and Robotics, December 7-18, Italy.

Berbain, S. (2019) « Additive Manufacturing Supply Chain Eco-System », 10th International Research Meeting in Business and Management, Nice, France, 8-10 juillet 2019.

Clayette, J., Berbain, S. (2019) « Concevoir la Supply Chain de la Fabrication Additive : Cas du groupe Safran » Conférence-débat à ISG International Business School, Paris, 19 avril 2019.

Berbain, S. (2018) « Toward the Additive Manufacturing Supply Chain: Framework from the theory of the Supply Chain », 13th International meeting for research in Logistics and Supply Chain Management (RIRL), Paris, France, 22-23 mai 2018.

Berbain, S., Corré-Ballais, M. et Donnadieu, A. (2018) « Du stockage à la maintenance, les impacts de l'impression 3D sur la supply chain », Conférence-débat au Salon AddFab, Paris, 12 avril 2018.

Berbain, S. (2017) « Additive manufacturing supply chain : Critical Challenges », Conférence-débat au Salon 3D Print, Lyon, 14 juin 2017.

Berbain, S. (2017) « Designing the additive manufacturing supply chain», Northeast Decision Sciences Institute Conference, Springfield, Massachussets, 22-25 mars 2017.

Berbain, S., (2016). "Impacts de la fabrication additive sur la Supply Chain : *Quels changements attendus dans le cadre de la production de pièces fonctionnelles en série ?*", 11èmes Rencontres Internationales de la Recherche en Logistique, 7-9 Septembre, Lausanne.

Berbain, S., Bourbonnais, R., Vallin, Ph, (2010). "Spécificités et Problématiques des Articles à durée de vie courte : Prévision de la demande, gestion des approvisionnements et gestion de la Production", 8èmes Rencontres Internationales de la Recherche en Logistique, Octobre, Bordeaux.

Berbain, S., (2010). "Comment gérer au mieux la saisonnalité des ventes au sein de la chaîne logistique ", Séminaire Supply Chain Université Paris-Dauphine, Mars, Paris.

Berbain, S., (2009). "A New Mixed Integer Linear Programming Model for Real Time Traffic Control", International Decision Sciences Institute Conference, June 24-27, Nancy, France.

Professional Associations

AIRL International Association of Research in Logistics

France Supply Chain by Aslog