



César Ducruet

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Axe de recherche

Transitions, Environnement, Énergie, Institutions, Territoires

Thème(s)

Intégration territoriale; Relations multiscalaires; Mondialisation; Indicateur socio-économique

HAL: [Lien](#)



Présentation

STATUT ET SITUATION ACTUELLE

Directeur de recherche au CNRS / Economix

CHAMPS ET THEMES DE RECHERCHE

Géographie et science régionale, analyse de réseau, ports et transport maritime, intégration de la supply chain, développement territorial, santé

TRAVAIL EN COURS

Influence de l'espace sur la structure des réseaux

Décroissance de la connectivité dans un contexte de crise

Impacts des activités portuaires sur la santé des populations locales

CURSUS

2016 HDR en géographie, Université Paris I Panthéon-Sorbonne

[*La spatialité des réseaux maritimes. Contributions maritimes à l'analyse des réseaux en géographie*](#)

2004 Doctorat de géographie, Université du Havre

[Les villes-ports, laboratoires de la mondialisation](#)

PARCOURS PROFESSIONNEL

2017 - 2021 Directeur de recherche au CNRS / Géographie-cités

2009 - 2017 Chargé de recherche au CNRS / Géographie-cités

2007 - 2008 Chercheur Marie Curie EIF-FP6 à Erasmus University Rotterdam

2005 - 2006 Chercheur au Korea Research Institute for Human Settlements (KRIHS)

PRIX ET DISTINCTIONS

2009 Marie Curie Reintegration Grant (ERG), 'Maritime systems'

2012 Prime d'Excellence Scientifique, CNRS

2017 Lettre de félicitations - Prix Amiral Daveluy, Centre d'études stratégiques de la Marine

ACTIVITES COLLECTIVES

Membre associé de [PortEconomics](#)

Membre de [PortCityFutures](#)

Membre du comité scientifique de [RETE Association](#)

Membre du comité scientifique du GIS Axe Seine

Membre du comité scientifique de [SFLOG](#)

Membre du GDR [OMER](#)

Membre du comité de lecture :

- Journal of Transport Geography

- Maritime Business Review

- Portus

- International Journal of Transport Economics

PROJETS DE RECHERCHE - Porteur

2023 - 2026 Agence Nationale de la Recherche (ANR) AAPG '[MAGNETICS](#)', MAritime Globalization, Network Externalities, and Transport Impacts on CitiES

2013 - 2019 European Research Council (ERC) Starting Grant No. 313847 '[World Seastems](#)'

2011 - 2012 ESPON-TIGER, WP2.3.5 'Maritime flows', [Territorial Impact of Globalization on Europe and its Regions \(TIGER\)](#)

2010 CNRS-Projet Exploratoire Premier Soutien (PEPS), Structure et évolution du système maritime mondial (1946-2010)

2007 - 2008 Marie Curie EIF-FP6, [Towards a comparison of European port-city dynamics](#)

PROJETS DE RECHERCHE - Participant

2018 - 2023 Japan External Trade Organization (JETRO-IDE), [Empirical studies on structure and evolution of maritime networks](#)

2016 - 2017 Japan External Trade Organization (JETRO-IDE), [Comparative studies of trends in regional structures](#)

2012 - 2015 Natural Science Foundation of China, Project No. 41171108, Logistics integration of ports in transport and value chains

2011 - 2013 Caisse des Dépôts et Consignations de Paris, Villes portuaires et développement durable au Maghreb

2010 - 2011 DATAR, [Analyse Comparée des Métropoles Européennes](#) (ACME)

EXPERTISE

2021 Korea Maritime Institute, "Port and shipping dynamics of North Korea"

2021 Organisation Mondiale de la Santé, "Health impacts of onshore and offshore activities in sea-port cities"

2019 Korea Maritime Institute, "Cold chain analysis Antwerp / Rotterdam"

2017 World Bank, "[Maritime Connectivity for Freight Transport in the Mediterranean connectivity model](#)"

2014 OECD, "[The competitiveness of global port-cities](#)"

DIFFUSION GRAND PUBLIC

- 2024** [Ports ultramarins : une transition écologique nécessaire](#), Outremers360°, 26 juillet
- 2023** [Du Pirée à Hambourg : l'Europe sous influence chinoise ?](#), France Culture/Cultures Monde, 03 janvier
- 2024** [All aboard: The effects of port development](#), VoxDev, 25 avril
- 2022** [Un panel d'outils pour décarboner les ports](#), Polytechnique Insights
- 2022** [Shipping: Covid Charts a New Course For Maritime Transport](#), Silverbird, 31 janvier
- 2022** [Une nouvelle lecture des relations ville-port en France](#), Chaîne EconomiX, 24 janvier
- 2021** [Les ports mettent le cap sur l'environnement](#), France Culture, 26 Novembre
- 2021** [Les relations ville-port et les réseaux maritimes](#), Institut de l'Océan de l'Alliance Sorbonne Université, 10 Octobre
- 2021** [Ports et territoires, quelles analyses croisées ?](#), Chaîne EconomiX, 7 juin
- 2021** [Routes maritimes : des grandes voies de passage à la tentation de l'Arctique](#), France Culture, 1 Avril
- 2014** [Les grands ports mondiaux](#), Radio France International, 14 Novembre
- 2013** [Sur les quais des grands ports du monde](#), France Culture, 8 avril

[Toutes publications sur hal-shs](#)

Documents de travail

HAL: [Lien](#)

06/2024 - Shipping Trade and Geopolitical Turmoils: The Case of the Ukrainian Maritime Network
Fabio Cremaschini, César Ducruet, Marc-Antoine Faure, Bárbara Polo Martin

09/2023 - Ports and their influence on local air pollution and public health: a global analysis
César Ducruet, Hidekazu Itoh, Mariantonia Lo Prete, Yoann Pigné, Bárbara Polo Martin, Mame Astou Séné, Ling Sun

09/2023 - Structural change in the world maritime network (1880-2020): globalization, optimization, and vulnerability
César Ducruet, Hidekazu Itoh, Bruno Marnot, Barbara Polo Martin, Elyass Sayd, Dimitris Tsiotas

05/2022 - Maritime trade and economic development in North Korea
César Ducruet, In Joo Yoon

05/2022 - Inland cities, maritime gateways, and international trade
César Ducruet, David Guerrero

05/2022 - Spatial network analysis of container port operations: the case of ship turnaround times
César Ducruet, Hidekazu Itoh

05/2022 - The spatial determinants of innovation diffusion: evidence from global shipping networks
César Ducruet, Hidekazu Itoh

09/2021 - Port-city linkages and multi-level hinterlands: the case of France
Mounir Amdaoud, César Ducruet, Marc-Antoine Faure

Publications

HAL: [Lien](#)

2025 - César Ducruet, Dimitris Tsiotas, Bruno Marnot, Barbara Polo Martin, Hidekazu Itoh, et al.. Structural change in the world maritime network (1880-2020): globalization, optimization, and vulnerability. 2025. (hal-05000113)
<https://hal.science/hal-05000113v1>

2024 - César Ducruet, Réka Juhász, Dávid Krisztián Nagy, Claudia Steinwender. All aboard: The effects of port development. Journal of International Economics, 2024, 151, pp.103963. (10.1016/j.jinteco.2024.103963). (halshs-04651432)
<https://shs.hal.science/halshs-04651432v1>

2024 - Bárbara Polo Martin, César Ducruet. The global transport network in space and time. Portus, 2024, Across the Waves, 47, <https://portusonline.org/the-global-transport-network-in-space-and-time/>. (halshs-04663232)
<https://shs.hal.science/halshs-04663232v1>

2024 - Bárbara Polo-Martín, César Ducruet. Coupled connectivity in the global complex network: the case of United Kingdom (1880–1925). Applied Network Science, 2024, 9 (1), pp.15. (10.1007/s41109-024-00622-6). (halshs-04571237)
<https://shs.hal.science/halshs-04571237v1>

2024 - Ling Sun, Xiangqi Liu, Zijiang Hu, Jingyi Zhang, César Ducruet, et al.. Does just transition increase social and environmental risks? Evidence from global port cities development. Environmental Impact Assessment Review, 2024, 105, pp.107370. (10.1016/j.eiar.2023.107370). (halshs-04314390)
<https://shs.hal.science/halshs-04314390v1>

2024 - César Ducruet, Mariantonia Lo Prete, Bárbara Polo Martin, Mame Astou Séné. Environnement et santé dans les villes portuaires : quelles données pour une analyse comparative au niveau mondial ?. Yann Alix; Pierre Cariou; Jacques Paquin. L'intelligence portuaire : opération, innovation, projection, Editions EMS, pp.265-286, 2024, Les Océanides. (halshs-04492364)
<https://shs.hal.science/halshs-04492364v1>

2024 - César Ducruet, Bárbara Polo Martin, Mame Astou Sene, Mariantonia Lo Prete, Ling Sun, et al.. Ports and their influence on local air pollution and public health: A global analysis. Science of the Total Environment, 2024, 915, pp.170099. (10.1016/j.scitotenv.2024.170099). (halshs-04407981)
<https://shs.hal.science/halshs-04407981v1>

2024 - César Ducruet. Les ports français dans la mondialisation, des handicaps structurels ?. Thomas Merle. Les littoraux français, Atlante, pp.169-180, 2024, 978-2-35030-932-3. (halshs-04654169)
<https://shs.hal.science/halshs-04654169v1>

2024 - Naixia Mou, Huanqing Xu, Yong Liu, Guoqing Li, Lingxian Zhang, et al.. Does the Chinese coastal ports disruption affect the reliability of the maritime network? Evidence from port importance and typhoon risk. International Journal of Applied Earth Observation and Geoinformation, 2024, 129, pp.103846. (10.1016/j.jag.2024.103846). (halshs-04665720)
<https://shs.hal.science/halshs-04665720v1>

2024 - Bárbara Polo Martin, Marc-Antoine Faure, Fabio Cremaschini, César Ducruet. Shipping Trade and Geopolitical Turmoils. 2024. (hal-04660640v2)

<https://hal.science/hal-04660640v2>

2024 - Ling Sun, Jingyi Zhang, César Ducruet, Hidekazu Itoh, Xiangqi Liu. The impact of shipping activities on air quality and residents' health in China's port cities. *Journal of Transport Geography*, 2024, 123, pp.104099. (10.1016/j.jtrangeo.2024.104099). (halshs-04838170)
<https://shs.hal.science/halshs-04838170v1>

2024 - César Ducruet, In Joo Yoon. Maritime trade and economic development in North Korea. 2024. (hal-04159805)
<https://hal.science/hal-04159805v1>

2024 - César Ducruet, In Joo Yoon. Maritime trade and economic development in North Korea. *Journal of Transport Geography*, 2024, 120, pp.103990. (10.1016/j.jtrangeo.2024.103990). (hal-04689246)
<https://hal.science/hal-04689246v1>

2023 - César Ducruet, Theo E. Notteboom. *Port Systems in Global Competition*. Routledge, 2023, Routledge Studies in Transport Analysis, 9781032327730. (halshs-04194431)
<https://shs.hal.science/halshs-04194431v1>

2023 - César Ducruet. Port city dynamics since 1880: a maritime network perspective. *Port Cities in Comparative Global History: Potentials and Issues*, 2023, Hong Kong, Unknown Region. (hal-04292934)
<https://hal.science/hal-04292934v1>

2023 - César Ducruet. Shipping network analysis: state-of-the-art and application to the global financial crisis. César Ducruet; Theo E. Notteboom. *Port Systems in Global Competition. Spatial-Economic Perspectives on the Co-Development of Seaports*, Routledge, pp.300-333, 2023, Routledge Studies in Transport Analysis, 9781003316657. (10.4324/9781003316657-20). (halshs-04588340)
<https://shs.hal.science/halshs-04588340v1>

2023 - César Ducruet, Theo E. Notteboom, Brian Slack. Port migration patterns in the global seaport system since the 1950s. César Ducruet; Theo E. Notteboom. *Port Systems in Global Competition. Spatial-Economic Perspectives on the Co-Development of Seaports*, Routledge, pp.122-146, 2023, 9781003316657. (10.4324/9781003316657-9). (halshs-04588346)
<https://shs.hal.science/halshs-04588346v1>

2023 - César Ducruet. Relational turns in geography and elsewhere: the case of ports, port systems, and shipping networks. *Investigating & Recording the Port-Cluster Landscape: Call for Words*, 2023, Gênes, Unknown Region. (hal-04292931)
<https://hal.science/hal-04292931v1>

2023 - César Ducruet, Elena Cocuzza, Matteo Ignaccolo. Analysis of the maritime networks: criticalities and resilience. *Transportation Research Procedia*, 2023, 69, pp.878-885. (10.1016/j.trpro.2023.02.248). (halshs-04194432)
<https://shs.hal.science/halshs-04194432v1>

2023 - César Ducruet, Theo E. Notteboom. A systematic and critical review of port system research. César Ducruet; Theo Notteboom. *Port Systems in Global Competition. Spatial-Economic Perspectives on the Co-Development of Seaports*, Routledge, pp.13-54, 2023, Routledge Studies in Transport Analysis, 9781003316657. (10.4324/9781003316657-3). (halshs-04194563)
<https://shs.hal.science/halshs-04194563v1>

2023 - César Ducruet. Ports and their influence on local air pollution and public health. *Globalization, Shipping and Trade workshop*, 2023, Paris, Unknown Region. (hal-04292932)
<https://hal.science/hal-04292932v1>

2023 - César Ducruet, Bárbara Polo Martin, Mame Astou Séné, Mariantonia Lo Prete, Ling Sun, et al.. Ports and their influence on local air pollution and public health: a global analysis. 2023. (hal-04313152)

<https://hal.science/hal-04313152v1>

2023 - César Ducruet. Les petits ports dans les réseaux maritimes. DEVPORT 2023 - Quelle place pour les ports territoriaux dans le système maritime de demain ?, 2023, Le Havre, Région indéterminée. (hal-04292930)

<https://hal.science/hal-04292930v1>

2023 - César Ducruet. Port systems and maritime networks: a relational turn?. International Symposium on Disciplinary Development and Innovation of Transport Geography 2023, 2023, Chine, Unknown Region. (hal-04292933)

<https://hal.science/hal-04292933v1>

2022 - César Ducruet, David Guerrero. Inland cities, maritime gateways and international trade. Journal of Transport Geography, 2022, 104, pp.103433. (10.1016/j.jtrangeo.2022.103433). (hal-03764224)

<https://hal.science/hal-03764224v1>

2022 - César Ducruet, Mariantonia Lo Prete. A sustainability analysis of European port cities. IGU PARIS 2022 TIME FOR GEOGRAPHERS The Centennial Congress, Jul 2022, Paris, France. (hal-04401080)

<https://hal.science/hal-04401080v1>

2022 - César Ducruet, Elyakim Ben-Hakoun, Mariantonia Lo Prete, Katharina Wabnitz, Viola Graef, et al.. An overview of the WHO report on environment and health in seaport cities: key findings and research gaps. 2nd WHO-UfM Joint Webinar on "Environment and health in seaport cities", UfM-WHO Europe, Jul 2022, Brussels, Belgium. (hal-04400640)

<https://hal.science/hal-04400640v1>

2022 - César Ducruet, Hidekazu Itoh. Spatial Network Analysis of Container Port Operations: The Case of Ship Turnaround Times. Networks and Spatial Economics, 2022, (10.1007/s11067-022-09570-z). (halshs-03719064)

<https://shs.hal.science/halshs-03719064v1>

2022 - César Ducruet, Mariantonia Lo Prete. Environnement et santé dans les villes portuaires européennes : des impacts aux solutions. IVe congrès international du GIS d'Histoire & Sciences de la mer, May 2022, Nice, France. (hal-04292909)

<https://hal.science/hal-04292909v1>

2022 - César Ducruet, Theo Notteboom. Revisiting port system delineation through an analysis of maritime interdependencies among seaports. GeoJournal, 2022, (10.1007/s10708-020-10341-x). (halshs-03029876)

<https://shs.hal.science/halshs-03029876v1>

2022 - César Ducruet, David Guerrero. Inland cities, maritime gateways, and international trade. 2022. (hal-04159806)

<https://hal.science/hal-04159806v1>

2022 - César Ducruet. Changing nature of illicit networks and supply chains. Extracting and analysing shipping network data. BRIMPACT: Understanding the impact of China's Belt and Road initiative (BRI) on illicit supply chains, 2022, Londres, Unknown Region. (hal-04292906)

<https://hal.science/hal-04292906v1>

- 2022 - César Ducruet. Environnement et santé dans les villes portuaires européennes. Journée Nationale de la Recherche Portuaire, 2022, Paris, Région indéterminée. (hal-04292902)
<https://hal.science/hal-04292902v1>
- 2022 - César Ducruet. Port specialization and connectivity in the global maritime network. Maritime Policy and Management, 2022, (10.1080/03088839.2020.1840640). (halshs-02986104)
<https://shs.hal.science/halshs-02986104v1>
- 2022 - César Ducruet, Hidekazu Itoh. The spatial determinants of innovation diffusion: Evidence from global shipping networks. Journal of Transport Geography, 2022, 101, pp.103358. (10.1016/j.jtrangeo.2022.103358). (halshs-03719062)
<https://shs.hal.science/halshs-03719062v1>
- 2022 - César Ducruet, Hidekazu Itoh. Spatial network analysis of container port operations: the case of ship turnaround times. 2022. (hal-04159808)
<https://hal.science/hal-04159808v1>
- 2022 - César Ducruet. Infrastructures et développement des territoires. Concepts, modèles, et applications. Les rendez-vous de l'économie territoriale, 2022, en ligne, Région indéterminée. (hal-04292904)
<https://hal.science/hal-04292904v1>
- 2022 - Mounir Amdaoud, César Ducruet, Marc-antoine Faure. The mutual specialization of port and urban functions: The case of France. Papers in Regional Science, 2022, 101 (2), pp.439 - 460. (10.1111/pirs.12659). (halshs-03719089)
<https://shs.hal.science/halshs-03719089v1>
- 2022 - César Ducruet, Hidekazu Itoh. The spatial determinants of innovation diffusion: evidence from global shipping networks. 2022. (hal-04159810)
<https://hal.science/hal-04159810v1>
- 2021 - César Ducruet, Theo E. Notteboom. Global maritime networks in container shipping. Dong-Wook Song; Photis Panayides. Maritime Logistics. A Guide to Contemporary Shipping and Port Management, , 2021. (halshs-03912871)
<https://shs.hal.science/halshs-03912871v1>
- 2021 - César Ducruet, Mariantonia Lo Prete. European port cities: between congestion and pollution. ICoSCaL21 : International Conference on Smart Corridors and Logistics, ILI-VS Institut pour une logistique intelligente en Vallée de Seine Université Le Havre Normandie, Nov 2021, Le Havre, France. (hal-04400666)
<https://hal.science/hal-04400666v1>
- 2021 - Dimitrios Tsiotas, César Ducruet. Measuring the effect of distance on the network topology of the Global Container Shipping Network. Scientific Reports, 2021, 11 (1), pp.21250. (10.1038/s41598-021-00387-3). (halshs-03408185)
<https://shs.hal.science/halshs-03408185v1>
- 2021 - César Ducruet, Justin Berli, Giannis Spiliopoulos, Dimitris Zissis. Maritime Network Analysis: Connectivity and Spatial Distribution. Guide to Maritime Informatics, Springer International Publishing, pp.299-317, 2021, (10.1007/978-3-030-61852-0_10). (hal-03293379)
<https://hal.science/hal-03293379v1>
- 2021 - César Ducruet. Change and Prospect of Shipping and Logistics Network on the Korean Peninsula. 17th Hankyoreh-Busan International Symposium, 2021, Busan, Unknown Region. (hal-04292889)

<https://hal.science/hal-04292889v1>

2021 - Laure Nuninger, Lena Sanders, Arnaud Banos, Frédérique Bertoncello, Anne Bretagnolle, et al.. A generic conceptual framework for describing transitions in settlement systems. Sanders L. Settling the World : From Prehistory to the Metropolis Era, Presses universitaires François-Rabelais, Chap 2, 2021, Perspectives Villes et Territoires, 9782869068551. (hal-03480382)
<https://hal.science/hal-03480382v1>

2021 - Mounir Amdaoud, César Ducruet, Marc-Antoine Faure. Port-city linkages and multi-level hinterlands: the case of France. 2021. (hal-04159734)
<https://hal.science/hal-04159734v1>

2021 - César Ducruet. Health and environmental impacts of onshore and offshore activities in sea-port cities. Webinar on Environment and Health in Seaport Cities, 2021, en ligne, Unknown Region. (hal-04292891)
<https://hal.science/hal-04292891v1>

2021 - César Ducruet. Is maritime transport an urban network? The interplay between global container flows and urban hierarchies. Handbook of Cities and Networks, Edward Elgar Publishing, pp.449-471, 2021, (10.4337/9781788114714.00031). (hal-03341631)
<https://hal.science/hal-03341631v1>

2021 - César Ducruet, Justin Berli. The geography of maritime transport. International Encyclopaedia of Transportation, Elsevier, pp.517 - 534, 2021. (hal-03247146)
<https://hal.science/hal-03247146v1>

2021 - César Ducruet. Is maritime transport an urban network ? The interplay between global container flows and urban hierarchies. Handbook of Cities and Networks, Edward Elgar Publishing, pp.449 - 471, 2021. (hal-03247155)
<https://hal.science/hal-03247155v1>

2021 - César Ducruet, Theo Notteboom. Liner shipping networks : service types, configuration and dynamics. Maritime Logistics : A Guide to Contemporary Shipping and Port Management, Kogan Page, 2021. (hal-03247154)
<https://hal.science/hal-03247154v1>

2021 - César Ducruet, Justin Berli, Giannis Spiliopoulos, Dimitris Zissis. Maritime network analysis : connectivity and spatial distribution. Guide to Maritime Informatics : Reporting Systems, Databases, and Visual Analytics, Springer, pp.299 - 317, 2021. (hal-03247147)
<https://hal.science/hal-03247147v1>

2021 - César Ducruet, Hidekazu Itoh. Introduction to global container shipping market. Global Logistics Network Modelling and Policy. Quantification and Analysis for International Freight, Elsevier, pp.3-30, 2021, (10.1016/B978-0-12-814060-4.00001-0). (halshs-02995835)
<https://shs.hal.science/halshs-02995835v1>

2021 - César Ducruet, Justin Berli. The geography of maritime transport. International Encyclopedia of Transportation, Elsevier, pp.517-534, 2021, (10.1016/B978-0-08-102671-7.10478-6). (hal-03293381)
<https://hal.science/hal-03293381v1>

2020 - Xumao Li, Chengjin Wang, César Ducruet. Globalization and Regionalization: Empirical Evidence from Itinerary Structure and Port Organization of World Cruise of Cunard. Sustainability, 2020, 12 (19), pp.7893. (10.3390/su12197893). (halshs-02955135)
<https://shs.hal.science/halshs-02955135v1>

- 2020 - César Ducruet. The geography of maritime networks: A critical review. *Journal of Transport Geography*, 2020, 88, pp.102824. (10.1016/j.jtrangeo.2020.102824). (halshs-02922543)
<https://shs.hal.science/halshs-02922543v1>
- 2020 - César Ducruet. Spatial networks. AAG. *International Encyclopedia of Geography*, Wiley, 2020, (10.1002/9781118786352.wbieg2059). (halshs-02955190)
<https://shs.hal.science/halshs-02955190v1>
- 2020 - César Ducruet. Urban network. AAG. *International Encyclopedia of Geography*, Wiley, 2020, (10.1002/9781118786352.wbieg2121). (halshs-02955201)
<https://shs.hal.science/halshs-02955201v1>
- 2020 - Liehui Wang, Nanyi Zhang, Fei Ye, Yui-Yip Lau, César Ducruet. The complex network analysis of liner shipping networks: Lessons from the merger between COSCO and CSCL. *Growth and Change*, 2020, 51 (4), pp.1877-1893. (10.1111/grow.12428). (halshs-02955149)
<https://shs.hal.science/halshs-02955149v1>
- 2020 - César Ducruet, Hidekazu Itoh, Justin Berli. Urban gravity in the global container shipping network. *Journal of Transport Geography*, 2020, 85, pp.102729. (10.1016/j.jtrangeo.2020.102729). (halshs-02588449)
<https://shs.hal.science/halshs-02588449v1>
- 2020 - Justin Berli, César Ducruet, Romain Martin, Sevil Seten. The Changing Interplay Between European Cities and Intermodal Transport Networks (1970s-2010s). Angela Carpenter; Rodrigo Lozano. *European Port Cities in Transition*, Springer, pp.241-263, 2020, 978-3-030-36463-2. (10.1007/978-3-030-36464-9_14). (halshs-02516396)
<https://shs.hal.science/halshs-02516396v1>
- 2020 - Laure Rousset, César Ducruet. Disruptions in Spatial Networks: a Comparative Study of Major Shocks Affecting Ports and Shipping Patterns. *Networks and Spatial Economics*, 2020, 20, pp.423-447. (10.1007/s11067-019-09482-5). (halshs-02588551)
<https://shs.hal.science/halshs-02588551v1>
- 2020 - Justin Berli, César Ducruet, Romain Martin, Sevil Seten. The changing interplay between European cities and intermodal transport networks (1970s-2010s). *European Port Cities in Transition*, Springer, pp.241 - 263, 2020. (hal-03247167)
<https://hal.science/hal-03247167v1>
- 2020 - César Ducruet, Hidekazu Itoh. Introduction to global container shipping market. *Global Logistics Network Modelling and Policy*, Elsevier, pp.3 - 30, 2020. (hal-04292832)
<https://hal.science/hal-04292832v1>
- 2020 - César Ducruet. Revisiting urban hierarchy and specialization from a maritime perspective. *Maritime Policy and Management*, 2020, 47 (3), pp.371-387. (10.1080/03088839.2019.1693065). (halshs-02434274)
<https://shs.hal.science/halshs-02434274v1>
- 2020 - César Ducruet, Justin Berli, Mattia Bunel. Geography vs. topology in the evolution of the global container shipping network (1977-2016). *Geographies of Maritime Transport*, Edward Elgar Publishing, pp.49 - 70, 2020. (hal-03247169)
<https://hal.science/hal-03247169v1>
- 2020 - César Ducruet. Spatial networks. *The International Encyclopedia of Geography*, Wiley-Blackwell & Association of American Geographers, 2020. (hal-03247150)
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