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## **Associate Professor of Industrial Engineering (Operations and Supply Chain Management)**



### **QUALIFICATIONS**

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- 2009, 2015, 2019 French National Universities Council Qualification (Maître de Conférences), Section 61 (Computer Engineering, Automation, Signal Processing, Industrial Engineering), French Ministry of Higher Education and Research, France.
- Jan. 2008 **Ph.D. (Doctorat)** in industrial engineering (supply chain and operations management). Ecole Centrale Paris in collaboration with HEC Paris, France.
- Sep. 2004 **Master's degree (DEA - Grade de Master)** in industrial systems engineering (industrial and logistic systems optimization). Ecole Centrale Paris, France.
- Jul. 2003 **Bachelor's of Engineering (Diplôme d'ingénieur)** in mechanical engineering. Lebanese University, Beirut, Lebanon.

### **PROFESSIONAL EXPERIENCE**

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- 2019 – **Associate professor**, Industrial Engineering and Engineering Management Department (**ABET Accredited**), College of Engineering, University of Sharjah, Sharjah, United Arab Emirates.
- 2011 – 2018 **Assistant professor**, Industrial Engineering and Engineering Management Department (**ABET Accredited**), College of Engineering, University of Sharjah, Sharjah, United Arab Emirates.
- 2009 – 2011 **Assistant professor**, Euromed Management (currently Kedge Business School, **AACSB, AMBA and EQUIS** accredited), Marseilles, France.
- 2007 – 2009 **Consultant** in supply chain management – information systems (SAP), Meltem Consulting – L'Oréal, Paris – France and Shanghai – China.
- 2004 – 2007 **Lecturer (moniteur - ATER) and research fellow (allocataire)**, Ecole Centrale Paris, France.

### **ACADEMIC LEADERSHIP ROLES**

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- 2018 – **Chairman**, Industrial Engineering and Engineering Management department, College of Engineering, University of Sharjah, Sharjah, United Arab Emirates.
- 2013 – 2017 **Program Coordinator**, PhD in Engineering Management, College of Engineering, University of Sharjah, Sharjah, United Arab Emirates.
- 2013 – 2016 **Coordinator of Graduate Programs** (Ph.D. and M.Sc. in Engineering Management), College of Engineering, University of Sharjah, Sharjah, United Arab Emirates.
- 2014 – 2017 **Chair** of the PhD in Engineering Management program committee, University of Sharjah, Sharjah, United Arab Emirates.
- 2013 – 2016 **Chair** of the MSc in Engineering Management program committee, University of Sharjah, Sharjah, United Arab Emirates.
- 2013 – 2014 (Summer) **Acting Chairman**, Industrial Engineering and Engineering Management department, College of Engineering, University of Sharjah, Sharjah, United Arab Emirates.
- 2009 – 2011 **Coordinator**, Supply Chain Management courses, Euromed Management (currently Kedge Business School), Marseilles, France.
- 2006 – 2007 **President**, Association of Ph.D. Students, *Ecole Centrale Paris* (UdE3c), Paris, France.

2006 **President**, Association of Ph.D. Students (Integroup), Five French *Ecole Centrale* Engineering Schools (IDEC), Paris, Marseilles, Lyon, Nantes, Lille, France.

#### **PART TIME – VISITING APPOINTMENTS**

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Apr. – May 2010 **Visiting professor**, King Saud University, Riyadh, Saudi Arabia.

2009 – 2013 **Part-time visiting lecturer**, ESAA (Ecole Supérieure Algérienne des Affaires, Consortium of 5 French Business Schools), Algiers, Algeria.

Sep. 2008 – Aug. 2009 **Part time lecturer**, Engineering School, Pôle Universitaire Léonard De Vinci, Paris, France.

#### **ADMINISTRATIVE RESPONSIBILITIES**

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2018- Member of the College of Engineering Council, Chair of IEEM department, University of Sharjah, Sharjah, United Arab Emirates.

2014–2015&2016-2017 Member of the University Council for Graduate Studies, University of Sharjah, Sharjah, United Arab Emirates.

2016- 2017 Member of the College of Engineering Council, PhD in Engineering Management program representative, University of Sharjah, Sharjah, United Arab Emirates.

2013 – 2015 Member of the College of Engineering Council, Industrial Engineering and Engineering Management department representative, University of Sharjah, Sharjah, United Arab Emirates.

2013 – 2017 Member of the teaching and learning and accreditation committee, Industrial Engineering and Engineering Management department, University of Sharjah, Sharjah, United Arab Emirates.

2009 – 2011 Coordinator of supply chain courses, Marseille Business School (Euromed Management), Marseille, France.

2006 – 2007 Member of the Board of Directors of Ecole Centrale Paris, Graduate students' representative, Paris, France.

#### **COURSES TAUGHT**

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- Practical training coordinator (BSc in Industrial Engineering and Engineering Management)
- Independent studies in engineering management (PhD in Engineering Management, coordinator and instructor)
- Manufacturing Processes + Lab (Bachelor's, English)
- Operations Management (MBA, French)
- Operations Management (Master's, English)
- Supply Chain Management (Master's, English)
- Production and Inventory Systems (Bachelor's, English)
- Stochastic System Simulation + Lab (Bachelor's, English)
- Stochastic simulation + Lab (Bachelor's, English)
- Supply Chain Management (Bachelor's, English)
- Operations Research II (Bachelor's, English)
- Operations Research I + Lab (Bachelor's, English)
- Operational Logistics Management (Master's, English)
- Production management (Master's, French)
- Inventory Management (Master's, English)
- Introduction to Industrial Engineering (Bachelor's, French)

#### **EXECUTIVE COURSES TAUGHT / TRAININGS GIVEN**

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- Industrial facilities management, University of Sharjah, UAE (Arabic)
- Operations Management, ESAA, Algeria (MBA, French)
- Materials Flows Management, Euromed Management, France (“Mastère Spécialisé“, French)
- SRM Module of SAP, L'Oréal, France (French)

## **SUPERVISION OF GRADUATION PROJECTS – MSC AND PHD THESES**

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2017 – present	Co-supervisor, PhD Thesis of Sadeque Hamdan, PhD in Industrial Engineering, CentraleSupélec, Paris Saclay University, Paris, France.
2019 – present	Co-supervisor, MSc Thesis of Anwar Hamdan, MSc in engineering management, University of Sharjah, Sharjah, United Arab Emirates.
2016 – present	Co-supervisor, MSc Thesis of Ahmed Bingamil, MSc in engineering management, University of Sharjah, Sharjah, United Arab Emirates.
2016 – present	Co-supervisor, MSc Thesis of Ahmed Abdul Azim Al Shehni, MSc in engineering management, University of Sharjah, Sharjah, United Arab Emirates.
2016 – 2019	Co-supervisor, MSc Thesis of Kamilia Aokal, MSc in engineering management, University of Sharjah, Sharjah, United Arab Emirates.
2015 – 2019	Supervisor/Co-supervisor, six MSc projects, MSc in engineering management, University of Sharjah, Sharjah, United Arab Emirates.
2015 – 2019	Supervisor, MSc Thesis of Walaa Ishnaineh, MSc in engineering management, University of Sharjah, Sharjah, United Arab Emirates.
2014 – 2016	Co-supervisor, MSc Thesis of Hamed Allaham, MSc in engineering management, University of Sharjah, Sharjah, United Arab Emirates.
2014 – 2015	Supervisor, MSc Thesis of Sadeque Hamdan, MSc in engineering management, University of Sharjah, Sharjah, United Arab Emirates.
2014	Member, PhD examination committee of Alexandre Lavissière, Ecricome PhD in management, Kedge Business School, France.
2011 – 2017	Supervisor of more than fifteen graduation projects, Bachelors of Industrial Engineering and Engineering Management, University of Sharjah, Sharjah, United Arab Emirates.
2010	Supervisor, Thesis of Karim Mehidi, specialized Master in maritime transportation, Euromed Management, Marseilles, France.
2009 – 2011	Supervisor, four MSc theses, MSc in maritime management, Euromed Management, Marseilles, France.
2009 – 2011	Supervisor, nine graduation projects, Master is in management, Euromed Management, Marseilles, France.
2004 – 2006	Supervisor, two MSc theses, MSC in industrial engineering, Laboratoire Génie Industriel, Ecole Centrale Paris, France.
2004 – 2006	Supervisor, six graduation projects in industry, industrial engineering (PSA Peugeot Citroën, Booz Allen Hamilton, Bain & Company, Carrefour, Total, Danone), Ecole Centrale Paris, France.
2004 – 2006	Tutor, group of 12 students, Ecole Centrale Paris, France.

## **CONSULTANCY PROJECTS**

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Oct. 2010 – Aug. 2011	Standardization of Supply Activities, work group, AFNOR (French Standardization Organization), France.
Apr. 2010 – Aug. 2011	Sustainable Purchasing in the Network Environment, research chair project with the participation of L'Occitane company, SNCF (French National Railway Company), Sodexo, Extramuros, Max Havelaar and WWF, Euromed Management, France.

## **AWARDS, PROFESSIONAL SERVICES**

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2020	Outstanding Achievement Award, The 10th Annual International Conference on Industrial Engineering and Operations Management, IEOM Society International, Dubai, United Arab Emirates, March 10-12, 2020.
2020	Member of the organizing committee, International conference on Industrial Engineering and Operations Management, Dubai, UAE, March 10-12, 2020.
2019	Best Track Paper Award, 2019 IEOM Bangkok Conference, March 05-07, 2019.
2018	Scientific committee member and session chair, the 4 <sup>th</sup> International Conference on Logistics Operations Management, Le Havre, France, April 10-12, 2018.
2017	Best Track Paper Award, 2017 IEOM UK Symposium, Bristol, UK, July 24-25, 2017.

- 2017            Session chair and technical program committee member of the Seventh International Conference on Modeling, Simulation and Applied Optimization (ICMSAO'17), Sharjah, United Arab Emirates, April 4–6, 2017.
- 2015            Session chair in the 7<sup>th</sup> IFEE2015 and 3rd TSDIC2015 joint conferences, Sharjah, United Arab Emirates, March 17-19, 2015.
- 2010            Best paper, proceedings of the 6<sup>th</sup> International Symposium on Management, Engineering and Informatics (MEI 2010), Orlando, Florida, USA, June 29- July 2, 2010.
- 2010            Session chair in the 6<sup>th</sup> International Symposium on Management, Engineering and Informatics (MEI 2010), Orlando, Florida, USA, June 29-July 2, 2010.

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**FACULTY DEVELOPMENT PROGRAMS**

- Certificate in Educational Leadership, Institute of Leadership in Higher Education, University of Sharjah, 2016.
- Blackboard learning system, Banner Student Information System, Information Technology Center, University of Sharjah, United Arab Emirates, 2011.
- Learn how to teach: teaching communication skills, Center of Initiation into the higher education of Versailles, France, 2006
- Production and dissemination of information on Internet, Center of Initiation into the higher education of Versailles, France, 2006
- Visual Basic for Application, Center of Initiation into the higher education of Versailles, France, 2006
- Teach with ease thanks to the theater, Center of Initiation into the higher education of Versailles, France, 2005
- Education evaluation, Center of Initiation into the higher education of Versailles, France, 2005
- Argue, discuss, convince and refute, Center of Initiation into the higher education of Versailles, France, 2004
- An approach to teaching and didactic of university education, Center of Initiation into the higher education of Versailles, France, 2004

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**PROFESSIONAL MEMBERSHIPS**

- 2017 – present      Advisory board member, Cambridge Scholars Publishing, United Kingdom.
- 2017 – present      Member, Shipping and Trade Alliance for Research (STAR), Shipping Research Centre  
The Hong Kong Polytechnic University, Hong Kong.
- 2010 – present      Member of the International Institute of Informatics and Systemics (IIIS), Venezuela and USA.
- 2006 – present      Member of the International Society of Inventory Research (ISIR), Hungary.
- 2005 – present      Member of the order of engineers and architects in Beirut, Lebanon.
- 2004 – 2005        Member of the astronomy sector of the association “Planète Science”, France.

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**LANGUAGES**

- French - Arabic: bilingual.
- English: fluent.
- Spanish: written and read.

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**COMPUTER SKILLS**

- Graphics: AutoCAD.
- Applied Mathematics: Mathematica, Matlab.
- Programming languages: Matlab, VBA, HTML, Turbo Pascal.
- Office software: Latex, Microsoft Office.
- Optimisation and decision-making: XPRESS-MP, Lindo/Lingo, Excel Solver, TORA.
- Stochastic system simulation: ARENA.

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**RESEARCH**

### Research grants/Funded research projects

- 2019 – 2021 Principle investigator of a collaborative research project, University of Sharjah and Department of Civil Aviation, Sharjah (400 000 AED): A Decision Support System (DSS) for Integrated Sustainable Airport Ground Operations Management.
- 2018 – 2020 Three collaborative research projects with Linköping University and LFV (total funding for the Swedish partners: 6 330 028 SEK):
- Visualization and traffic management of unmanned air traffic
  - Operator tracking and load balancing for ATC operators with advanced AI
  - Stochastic models for optimal air traffic flow management
- 2018 – 2020 Principle investigator of a funded research project, University of Sharjah (96 000 AED): Sustainable supply chain operations management: integrated supplier selection, procurement, production, maintenance and distribution models.
- 2012 – 2014 Seed research grant, University of Sharjah (12500 AED): Containership Speed and Fleet Size Optimization.
- 2010 – 2011 Research Chair for 3 years (with 3 other professors), Euromed Management (270 000 EUR),  
Title: Sustainable Purchasing in the Network Environment.
- 2004 – 2007 French ministry of higher education grant for doctoral studies, Ecole Centrale Paris (63 000 EUR)

### Refereeing activities

- **Journal reviewer for:** Annals of Operations Research; International Journal of Industrial Engineering and Operations Management; International Journal of Production Research; European Journal of Operational Research; International Journal of Systems Science; International Journal of Production Economics; Computers & Industrial Engineering; Computers & Operations Research; International Journal of Advanced Operations Management; Asia-Pacific Journal of Operational Research (APJOR); Production Planning and Control; Transport Policy; Transportation Research Part E; ...
- **Book reviewer for:** Palgrave Macmillan, Basingstoke, United Kingdom; Elsevier, the Netherlands.
- **Conferences refereeing/committees:** GOL, Morocco, 2020; IEOM, Dubai, 2020; ICMSAO, Bahrain, 2019; GOL, France, 2018; MEI, USA, 2016; IAME, France, 2013 ; ICMSAO'13, Tunisia, 2013; MEI, USA, 2013; MEI, USA, 2012 ; IAME, Taiwan, 2012 ; MEI, USA, 2011 ; MMMse, USA, 2011; CIE39, France, 2009 ; ICED, France, 2007; GDR MACS STP, France, 2006; CRIEC, France, 2006.

### Editorial activities

- **Editor:** Decision Science Advisory Board, Cambridge Scholars Publishing, UK.
- **Guest co-editor:** Special Issue: Design, management, sustainability and evaluation of transportation systems in the Arctic, **Transportation Research Part A: Policy and Practice**, Elsevier, Netherlands. Expected to be published in 2021.
- **Review editor and editorial board member:** **Frontiers in Future Transportation**, Freight Transport and Logistics Section, Frontiers, Switzerland.
- **Guest co-editor:** Special issue: Managing uncertainty in port logistics operations, **Operations Management Research**, Springer, Switzerland, 2020.

### Book and book chapter publications

1. Ali Cheaitou (2010). *Production Planning and Inventory Control: Stochastic Optimization Models for Short Life-Cycle Products*. LAP Lambert Academic Publishing, Sarrebruck, Germany. ISBN: 978-3-838-36811-5.
2. Olivier Faury, Laurent Etienne, Laurent Fedi, Patrick Rigot-Muller, Ali Cheaitou, Scott Stephenson (2019). L'impact de la gestion du risque sur l'attractivité du Passage du Nord-Est. In: Arnaud Serry, Yann Alix, Viktoras Sencila (eds). *Baltic – Arctic Strategic perspective*. Les Océanides, EMS, Editions Management et Société, Caen, France, pp. 157-178. ISBN: 978-2-376-87329-7.
3. Sadeque Hamdan, Oualid Jouini, Ali Cheaitou, Zied Jemai, Imad Alsyounf and Maamar Bettayeb (2020). Optimal Air Traffic Flow Management with Carbon Emissions Considerations. In: Hoai An Le Thi, Hoai Minh Le, Tao Pham Dinh (eds). *Optimization of Complex Systems: Theory, Models, Algorithms and Applications (WCGO 2019)*, Series: *Advances in Intelligent Systems and*

**Articles published in refereed journals**

1. Ali Cheaitou, Sadeque Hamdan, Rim Larbi and Imad Alsyounf (2020). Sustainable Traveling Purchaser Problem Model with Speed Optimization. Forthcoming in **International Journal of Sustainable Transportation**, DOI: <https://doi.org/10.1080/15568318.2020.1774825>.
2. Pierre Cariou, Ali Cheaitou, Olivier Faury and Sadeque Hamdan (2019). The feasibility of Arctic container shipping: the economic and environmental impacts of ice thickness. Forthcoming in **Maritime Economics & Logistics**, DOI: <https://doi.org/10.1057/s41278-019-00145-3>.
3. Olivier Faury, Ali Cheaitou and Philippe Givry (2020). Best Maritime Transportation Option for the Arctic Crude Oil: a Profit Decision Model. **Transportation Research Part E**, Vol. 136, Article 101865, DOI: <https://doi.org/10.1016/j.tre.2020.101865>.
4. Ali Cheaitou, Mickael Gardoni and Sadeque Hamdan (2019). A decision making framework for environmentally sustainable product design. **Concurrent Engineering: Research and Applications**, Vol. 27, No. 4, pp. 295-304, DOI: <https://doi.org/10.1177/1063293X19870841>
5. Ali Cheaitou, Rim Larbi, Bashayer Al Housani (2019). Decision making framework for tender evaluation and contractor selection in public organizations with risk considerations. **Socio-Economic Planning Sciences**, Vol. 68, Article 100620, DOI: 10.1016/j.seps.2018.02.007.
6. Ali Cheaitou, Olivier Faury, Pierre Cariou, Sadeque Hamdan and Gregory Fabbri (2019). Ice thickness data in the northern sea route (NSR) for the period 2006-2016. **Data in Brief**, Vol. 24, DOI: <https://doi.org/10.1016/j.dib.2019.103925>.
7. Ali Cheaitou and Rima Cheaytoui (2019). A two-stage capacity reservation supply contract with risky supplier and forecast updating. **International Journal of Production Economics**, Vol. 209, pp. 42-60, DOI: <https://doi.org/10.1016/j.ijpe.2018.01.019>.
8. Ali Cheaitou and Pierre Cariou (2019). Greening maritime transportation: a bi-objective optimization approach. **Annals of Operations Research**, Vol. 273, No. 1, pp. 501-525, DOI: 10.1007/s10479-018-2786-2.
9. Laurent Fedi, Laurent Etienne, Olivier Faury, Patrick Rigot-Müller, Scott Stephenson and Ali Cheaitou (2018). Arctic navigation: stakes, benefits and limits of the POLARIS system. **The Journal of Ocean Technology**, Vol. 13, No. 4, pp. 54–67.
10. AlMarar Ahlam and Cheaitou Ali (2018). Cargo flow, freight rate and speed optimization of container liner services. **International Journal of Shipping and Transport Logistics**, Vol. 10, Nos. 5/6, pp. 533-566.
11. Pierre Cariou, Ali Cheaitou, Rim Larbi and Sadeque Hamdan (2018). Liner shipping network design with emission control areas: a genetic algorithm-based approach. **Transportation Research Part D**, Vol. 63, pp. 604–621, DOI: <https://doi.org/10.1016/j.trd.2018.06.020>.
12. Sadeque Hamdan and Ali Cheaitou (2017). Dynamic green supplier selection and order allocation with quantity discounts and varying supplier availability. **Computers & Industrial Engineering**, Vol. 110, pp. 573–589, DOI: <http://dx.doi.org/10.1016/j.cie.2017.03.028>.
13. Sadeque Hamdan and Ali Cheaitou (2017). Datasets for supplier selection and order allocation with green criteria, all-unit quantity discounts and varying number of suppliers. **Data in Brief**, Vol. 13, pp. 444–452, DOI: <http://dx.doi.org/10.1016/j.dib.2017.06.018>.
14. Sadeque Hamdan and Ali Cheaitou (2017). Supplier selection and order allocation with green criteria: An MCDM and multi-objective optimization approach. **Computers & Operations Research**, Vol. 81, pp. 282–304.
15. Ali Cheaitou and Pierre Cariou (2017). A Two-Stage Maritime Supply Chain Optimization Model. **International Journal of Shipping and Transport Logistics**, Vol. 9, No. 2, pp. 202-233.
16. Ali Cheaitou and Sharfuddin Khan (2015). An Integrated Supplier Selection and Procurement Planning Model Using Product Predesign and Operational Criteria. **International Journal on Interactive Design and Manufacturing (IJIDeM)**, Vol. 9, No. 3, pp. 213–224.
17. Alexandre Lavissière, Laurent Fedi and Ali Cheaitou (2014). A Modern Concept of Free Ports in the 21st Century: A Definition towards a Supply Chain Added Value. **Supply Chain Forum: an International Journal**, Vol. 15, No. 3, pp. 22-28.

18. Ali Cheaitou, Christian van Delft, Zied Jemai and Yves Dallery (2014). Optimal Policy Structure Characterization for a Two-Period Dual-Sourcing Inventory Control Model with Forecast Updating. **International Journal of Production Economics**, Vol. 157, pp. 238–249.
19. Pierre Cariou and Ali Cheaitou (2014). Cascading effects, network configurations and optimal transshipment volumes in liner shipping. **Maritime Economics & Logistics**, Vol. 16, No. 3, pp. 321–342.
20. Ali Cheaitou and Christian van Delft (2013). Finite horizon stochastic inventory problem with dual sourcing: Near myopic and heuristics bounds. **International Journal of Production Economics**, Vol. 143, No. 2, pp. 371–378.
21. Ali Cheaitou and Pierre Cariou (2012). Liner shipping service optimisation with reefer containers capacity: an application to northern Europe-south America trade. **Maritime Policy & Management**, Vol. 39, No. 6, pp. 589 – 602.
22. Pierre Cariou and Ali Cheaitou (2012). The effectiveness of a European speed limit versus an international bunker-levy to reduce CO2 emissions from container shipping. **Transportation Research Part D**, Vol. 17, No. 2, pp. 116–123.
23. Ali Cheaitou, Christian van Delft, Zied Jemai and Yves Dallery (2011). A Newsvendor Model with Initial Inventory and Two Salvage Opportunities. **Journal of Systemics, Cybernetics and Informatics**, Vol. 9, No. 3, pp. 30–36.
24. Ali Cheaitou, Zied Jemai, Yves Dallery and Christian van Delft (2010). Two-stage flexible supply contract with payback and information update. **European Journal of Industrial Engineering**, Vol. 4, No. 4, pp.471–492.
25. Ali Cheaitou, Christian van Delft, Yves Dallery and Zied Jemai (2009). Two-period Production Planning and Inventory Control. **International Journal of Production Economics**, Vol. 118, No. 1, pp. 118–130.

#### Articles published in non-refereed magazine

1. Olivier Faury, Laurent Fedi, Laurent Etienne, Patrick Rigot-Muller, Scott Stephenson and Ali Cheaitou (2019). POLARIS: Quelle influence sur la sécurité de la navigation en Arctique. **Journal de la Marine Marchande**, Vol. 2019, No. 5093, pp. 10-11.

#### Submitted papers

1. Nadjib Brahimi, Ali Cheaitou, Pierre Cariou and Dominique Feillet (2018). An Exact Algorithm for the Single Liner Service Design Problem with Speed Optimization. **International Journal of Production Research**, submitted in December 2018.
  2. Ali Cheaitou, Olivier Faury, Pierre Cariou, Sadeque Hamdan, Gregory Fabbri. A probabilistic approach to Arctic shipping investment. Submitted to **Transportation Research Part D**, September 2019.
  3. Sadeque Hamdan, Ali Cheaitou, Oualid Jouini, Imad Alsyouf, Maamar Bettayeb, Zied Jemai, Tobias Andersson Granberg and Billy Josefsson, Air traffic flow management with rerouting options. **Transportation Science**, submitted September 2019.
  4. Sadeque Hamdan, Oualid Jouini, Ali Cheaitou, Zied Jemai (2020). Green Air Traffic Flow Management: A Comparative Study between Conventional and Sustainable Aviation Fuel. Submitted to **Journal of Global Optimization**, January 2020.
  5. Patrick Rigot-Muller, Ali Cheaitou, Laurent Etienne, Olivier Faury, Laurent Fedi and Scott Stephenson (2020). The relevance of the Northern Sea Route for infrastructure projects in the Arctic: Lessons from a shipping routing and scheduling model for the assembly of an LNG plant. Submitted to **Transportation Research Part A**, May 2020.
- Kamilia Aokal, Abdul Hai Alami and Ali Cheaitou (2020). Manufacturing Process Analysis for Simultaneous Synthesis and Deposition of Turbostratic Graphene on Absorbers in Solar Thermal Collector Applications. Submitted to **Journal of Sustainable Development of Energy, Water and Environment Systems**, May 2020.

#### Working papers

1. Hamed Allaham, Ali Cheaitou, Abdul Kadir Hamid and Abdul Hai Al-Alami (2020). Photovoltaic System Size and Tilt Angle Optimization: A Mixed Integer Non-linear Programming Approach. Working paper, January 2020.

2. Ali Cheaitou and Rima Cheaytoui (2018). Including Sustainability Criteria into the Multi-Supplier Single-Period Procurement Problem: An MCDM and Bi-Objective Optimization Approach. Working paper, November 2018.
3. Olivier Faury, Ali Cheaitou, Laurent Etienne, Laurent Fedi, Patrick Rigot-Muller and Scott Stephenson (2020). How attractive is the Northern Sea Route for container shipping? An economic model. Working paper, January 2020.
4. Omar A. Gouda, Rim Larbi and Ali Cheaitou (2019). A Stochastic Dynamic Programming Model for Airline Revenue Management with Overbooking and No-shows. Working paper, January 2019.
5. Ali Cheaitou, Sadeque Hamdan and Rim Larbi (2019). Liner shipping network design with sensitive demand. Working paper, October 2019.

**International Conferences & workshops – proceedings/presentations**

1. Olivier Faury, Ali Cheaitou, Laurent Etienne, Laurent Fedi and Patrick Rigot-Muller (2020). An assessment of the NSR capacity and bottlenecks. Annual conference of the International Association of Maritime Economists (IAME), June 10-13, 2020, Hong Kong.
2. Ahmed Al Shehni, Ali Cheaitou, Imad Alsyouf, Sadeque Hamdan and Rim Larbi, Integrated Production and Maintenance Planning: A Comparison Between Block Policies. International Conference on Industrial Engineering and Operations Management (IEOM), March 10-12, 2020, Dubai, United Arab Emirates (UAE).
3. Anwar Hamdan, Sadeque Hamdan, Ali Cheaitou, Imad Alsyouf and Jonas Lundberg, Routing of Unmanned Aerial Vehicles: State of Art. International Conference on Industrial Engineering and Operations Management (IEOM), March 10-12, 2020, Dubai, United Arab Emirates (UAE).
4. Khalid Khamis, Sadeque Hamdan, Ali Cheaitou and Imad Alsyouf, A Sustainable Travelling Purchaser Problem Model. International Conference on Industrial Engineering and Operations Management (IEOM), March 10-12, 2020, Dubai, United Arab Emirates (UAE).
5. Ahmed Bingamil, Imad Alsyouf, Ali Cheaitou and Iyad Alawaysheh, Selecting a Condition Monitoring Technology to Monitor Automotive Lubrication System Using Fuzzy-TOPSIS. International Conference on Industrial Engineering and Operations Management (IEOM), March 10-12, 2020, Dubai, United Arab Emirates (UAE).
6. Kamilia Aokal, Abdul Hai Alami and Ali Cheaitou, Manufacturing Process Analysis for Simultaneous Synthesis and Deposition of Turbostratic Graphene on Absorbers in Solar Thermal Collector Applications. 14<sup>th</sup> Conference on Sustainable Development of Energy, Water and Environment Systems (SDEWES2019), October 1-6, 2019, Dubrovnik, Croatia.
7. Jonas Lundberg, Magnus Bång, Jimmy Johansson, Ali Cheaitou, Billy Josefsson, and Zain Tahboub, Human-in-the-loop AI: Requirements on future (unified) air traffic management systems. 38<sup>th</sup> Digital Avionic Systems Conference (DASC), September 8-12, 2019, San Diego, United States of America.
8. Sadeque Hamdan, Oualid Jouini, Ali Cheaitou, Zied Jemai, Imad Alsyouf and Maamar Bettayeb, Optimal Air Traffic Flow Management with Carbon Emissions Considerations. 6<sup>th</sup> World Congress on Global Optimization (WCGO 2019), July 8-10, 2019, Metz, France.
9. Olivier Faury, Ali Cheaitou, Laurent Etienne, Laurent Fedi, Patrick Rigot-Muller and Scott Stephenson, How attractive is the Northern Sea Route for container shipping? An economic model. IAME 2019 Conference, June 25<sup>th</sup> – 28<sup>th</sup>, 2019, Athens, Greece.
10. Ali Cheaitou, Olivier Faury, Pierre Cariou and Sadeque Hamdan, Northern Sea Route (NSR) Container Shipping Cost and emissions: A comparison with the Transiberian Railway Connection (TRC). IAME 2019 Conference, June 25<sup>th</sup> – 28<sup>th</sup>, 2019, Athens, Greece.
11. Sadeque Hamdan, Ali Cheaitou, Oualid Jouini, Zied Jemai, Imad Alsyouf and Maamar Bettayeb, An Environmental Air Traffic Flow Management Model. The 8<sup>th</sup> International Conference on Modeling, Simulation and Applied Optimization (ICMSAO'2019), April 15-17, 2019, Manama, Bahrain.
12. Hamed ALLaham, A-K. Hamid and Ali Cheaitou, Renewable Energy Management: Technical and Economic Evaluation of an Optimized Photovoltaic System, 9<sup>th</sup> IEOM International Bangkok Conference, March 5-7, 2019, Bangkok, Thailand.
13. Read AIMheiri and Ali Cheaitou, A Decision Making Tool for Procurement Management of Aerospace EEE Parts. 69<sup>th</sup> International Astronautical Congress, October 1-5, 2018, Bremen, Germany.



14. Ali Cheaitou and Rima Cheaytou, Including Sustainability Criteria into the Multi-Supplier Newsvendor Problem: An MCDM and Bi-Objective Optimization Approach. International Symposium on Inventories (ISIR) 2018, August 20-24, 2018, Budapest Hungary.
15. Sadeque Hamdan, Ali Cheaitou, Oualid Jouini, Zied Jemai, Imad Alsyouf and Maamar Bettayeb, On Fairness in the Network Air Traffic Flow Management with Rerouting. The 9<sup>th</sup> International Conference on Mechanical and Aerospace Engineering (ICMAE 2018), July 10-13, 2018, Budapest, Hungary.
16. Sadeque Hamdan, Ali Cheaitou, Rim Larbi and Imad Alsyouf, Moving toward sustainability in managing assets: A sustainable travelling purchasing problem. The 4<sup>th</sup> International Conference on Logistics Operations Management – GOL'2018, April 10-12, 2018, Le Havre, France.
17. Ali Cheaitou, Rim Larbi, and Sadeque Hamdan, Liner shipping routing, fleet sizing and speed optimization with application to Asia - Northern Europe–trade. The 4<sup>th</sup> International Conference on Logistics Operations Management – GOL'2018, April 10-12, 2018, Le Havre, France.
18. Olivier Faury, Pierre Cariou and Ali Cheaitou, A probabilistic approach to assess the NSR attractiveness. Arctic Frontiers Science Conference 2018, January 21-26, 2018, Tromsø, Norway.
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## **HOBBIES**

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Photography, astrophysics.