

Dr. Abderrahman Ait-Ali

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OVERVIEW

PhD. in Infra-Informatics.

MSc. in Computer Science & Engineering.

Ing. in Applied Mathematics & Informatics.

PROFESSIONAL

Researcher, Transport Economics 2021-present VTI The Swedish National Road and Transport Research Institute, Sweden Research Assistant, Transport Economics 2019-2021 VTI The Swedish National Road and Transport Research Institute, Sweden • Capacity allocation in deregulated railway markets PhD Candidate, Transport Science 2016-2019 KTH The Royal Institute of Technology, Sweden • Cost-benefit analysis of commuter train timetables Research Engineer, Mathematical Optimization 2015-2016 KTH The Royal Institute of Technology, Sweden • Optimization of train timetables using Lagrangian relaxation Research Intern, Production Planning 2014-2015 ABB Research Center, Germany

- Optimization of Energy-aware production schedules in steel production plants
- Bi-level optimization in production planning for pulp & paper production

EDUCATION

Post doc. Communications & Transport Systems Linköping University - LiU, Sweden	2021-present
PhD. Infra-informatics (cont.) Linköping University - LiU, Sweden	2019-2020
PhD. Transport Science KTH The Royal Institute of Technology, Sweden	2015-2019
MSc. Computer Science & Engineering KTH The Royal Institute of Technology, Sweden	2013-2015
Ing. Applied Mathematics & Informatics Grenoble Institute of Technology - ENSIMAG, France	2011-2013
Prepa. Physics & Engineering Reda Slaoui Preparatory Classes, Morocco	2009-2011

SELECTED PUBLICATIONS

- 12. <u>A. Ait-Ali</u>, et al., "Evaluating the mix of maintenance activities on railway crossings with respect to life-cycle costs", *VTI Working Paper*, (2023).
- 11. <u>A. Ait-Ali</u>, T. Lidén, "Minimal utilization rate for railway maintenance windows: a cost-benefit approach", European Journal of Transport and Infrastructure Research, (2022).
- 10. <u>A. Ait-Ali</u>, J. Eliasson, "The value of additional data for public transport origin–destination matrix estimation", *Public Transport*, (2021).
- 9. <u>A. Ait-Ali</u>, J. Eliasson, "European Railway Deregulation: An overview of market organization and capacity allocation", *Transportmetrica A: Transport Science*, (2021).
- 8. <u>A. Ait-Ali</u>, "Methods for Capacity Allocation in Deregulated Railway Markets", *Linköping Studies in Science and Technology. Dissertations* **2101**, (2020).
- 7. <u>A. Ait-Ali</u>, P. O. Lindberg, J. Nilsson, J. Eliasson, A. Peterson, "A disaggregate bundle method for train timetabling problems", *Journal of Rail Transport Planning & Management* **100200**, (2020).
- 6. <u>A. Ait-Ali</u>, J. Warg, J. Eliasson, "Pricing Commercial Train Path Requests based on Societal Costs", Transportation Research Part A: Policy and Practice **132**, 452-464 (2020).
- 5. <u>A. Ait-Ali</u>, "Integration of Production Scheduling and Energy Management: Software Development", *Master Thesis*, (2015).

OTHER PUBLICATIONS

- 4. <u>A. Ait-Ali</u>, et al., "Assessing innovations in High-Speed Rail infrastructure", Proceedings of the 2nd International Workshop on High-Speed Rail Socioeconomic Impacts, (2023).
- 3. <u>A. Ait-Ali</u>, J. Eliasson, "Railway capacity allocation: a survey of market organizations, allocation processes and track access charges", *VTI Working Paper* **1**, (2019).
- 2. J. Warg, <u>A. Ait-Ali</u>, J. Eliasson, "Assessment of Commuter Train Timetables Including Transfers", *Transportation Research Procedia* **37**, 11-18 (2019).
- A. Ait-Ali, J. Eliasson, J. Warg, "Measuring the Socio-economic Benefits of Train Timetables Application to Commuter Train Services in Stockholm", Transportation Research Procedia 27, 849-856 (2017).

INTERNATIONAL CONFERENCES

- 7. Nordic Railway Seminar, Tampere, 2022
- 6. European conference of the Society for Benefit Cost Analysis, Toulouse, 2019
- 5. International Conference on Railway Operations Modelling and Analysis, Norrköping, 2019
- 4. International Conference of Transportation Economics Association, Paris, 2019
- 3. European Conference on Operational Research, Valencia, 2018
- 2. European Working Group for Transportation, Budapest, 2018
- 1. International Conference on Railway Operations Modelling and Analysis, Lille, 2017

AWARDS

- 2022 Top 10 in TRAVISIONS Young Researcher competition.
- 2016 Fellowship for MENA Internet Governance Conference, HIVOS.
- 2014 Internship Excellence Award, ABB Research Center in Germany.
- 2013 Merit Grant for Engineering Studies, Grenoble Institute of Technology.
- 2011 #1 Common National Contest CNC 2011, Moroccan Ministry of Higher Education, Scientific Research and Professional Training.

SYNERGISTIC ACTIVITIES

- Board member: Wikimedia MA (Wikipedia in Morocco).
- Alumni: Internet Governance in MENA Region, ICANN, HIVOS Foundation.
- Languages: Tashelhit (Amazigh/Berber), Arabic, French, English and Swedish.
- Photography: Contest organizer and jury (Wiki Loves Monuments).