

Roel Leus

Professor of Operations Research

Program Director for the Business Engineering programs (for all campuses)

KU Leuven – Faculty of Economics and Business

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Google Scholar page: <https://scholar.google.com/citations?user=kR3HugkAAAAJ&hl>

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Research interests

Operations research and operations management, in particular

- sequencing and scheduling
- project planning and scheduling
- planning and scheduling under uncertainty
- project management; project portfolio management
- combinatorial optimization
- decision making under uncertainty

Employment

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|------------------------|---|
| 10/12 – <i>present</i> | Professor, KU Leuven |
| 06/17 – 06/21 | Adjunct professor, Beijing Jiaotong University, School of Economics and Management |
| 10/09 – 09/12 | Associate professor, KU Leuven |
| 10/05 – 09/09 | Assistant professor, KU Leuven |
| 10/04 – 09/07 | Postdoc, FWO-Vlaanderen (National Science Foundation Flanders) |
| 10/03 – 09/04 | Teaching assistant, KU Leuven |
| 10/99 – 09/03 | PhD-scholarship, FWO-Vlaanderen |
| 08/98 – 09/99 | Research assistant, KU Leuven |

Main administrative responsibilities at KU Leuven

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|------------------------|---|
| 10/19 – <i>present</i> | chairman of the Advisory Committee for the Chinese Region |
| 09/17 – <i>present</i> | Program director, Handelsingenieur / Business Engineering |
| 10/12 – 09/16 | Head of research group ORSTAT |

Education

- 1998 – 2003 PhD in Applied Economics, KU Leuven
 Dissertation: The generation of stable project plans:
 Complexity and exact algorithms
 Area of specialization: Operations Management
- 1993 – 1998 Handelsingenieur, KU Leuven
 MSc-equivalent; degree with focus on management and engineering

Scientific stays

- August – September 2008 LAAS-CNRS (group MOGISA), Toulouse (FR)
 May 2005 London Business School, London (GB)
 June – July 2004 London Business School, London (GB)

Editorial positions

- 2013 – *present* Associate editor, OR Spectrum
 2015 – 2017 Special issue editor “MAPSP,” Journal of Scheduling

Teaching

- 0506 – *present* Basismodellen uit operationeel onderzoek
 [6 ECTS ; approx. 270 students per year]
in Dutch, translation “Introduction to Operations Research”
- 0506 – *present* Operationeel onderzoek [6 ECTS ; 320 students]
“Operations Research”
- 1112 – *present* Supply Chain Management [English ; 6 ECTS ; 40 students]
- 1314 – *present* Applied Optimization (partim) [English ; 1 / 6 ECTS ; 30 students]
- 0506 – 1415 Data-Analyse en Optimalisatie [postgraduate course ; 20 students]
“Data Analysis and Optimization”
- 0708 – 1415 Combinatorische optimalisatie [3 ECTS ; 10 students]
“Combinatorial Optimization”
- 0607 – 0809 Kwantitatieve Beleidsmethoden (partim) [3 / 6 ECTS ; 300 students]
“Quantitative Management Techniques”

Citation metrics on January 28, 2023

- Thomson Web of Science (Publons): h-index 23; total citations 2511
 Google scholar: h-index 34; total citations 6534

Five main publications (all peer-reviewed)

Song G. & Leus R. (2022). Parallel machine scheduling under uncertainty: Models and exact algorithms. *INFORMS Journal on Computing* 34(6), 2867-3350. (2021 JCR impact factor 2.276)

Song G., Kis T. & Leus R. (2021). Polyhedral results and branch-and-cut for the resource loading problem. *INFORMS Journal on Computing* 33(1), 105-119. (2021 JCR impact factor 2.276)

Kowalczyk D. & Leus R. (2018). A branch-and-price algorithm for parallel machine scheduling using ZDDs and generic branching. *INFORMS Journal on Computing* 30(4), 625-782. (2021 JCR impact factor 2.276)

Creemers S., De Reyck B. & Leus R. (2015). Project planning with alternative technologies in uncertain environments. *European Journal of Operational Research* 242(2), 465-476. (2021 JCR impact factor 5.334)

Ballestín F. & Leus R. (2009). Resource-constrained project scheduling for timely project completion with stochastic activity durations. *Production and Operations Management* 18(4), 459-474. (2021 JCR impact factor 4.965)

For a complete publication list see http://feb.kuleuven.be/roel.leus/public/roel_public.htm.

Supervision of PhD-students

I have to date been involved in the following numbers of PhD-projects:

- as supervisor: 4 ongoing, 10 graduated
- as co-supervisor: 3 graduated
- as member of the evaluation committee: 11 graduated at KU Leuven, 7 outside of KU Leuven
- as chairman: 8

Research funding I have to date acquired around 2.000.000 EUR in funding from a variety of sources, including private companies, NBB (National Bank of Belgium), FWO, and internal KUL-funded research projects.