

## WISDOM presents YoungWomen4OR: “Facility Location Optimisation”

Join us for a coffee and a chat!

**What:** EURO WISDOM Forum Bite-size Webinar<sup>1</sup>

**Where:** Zoom (To register, please fill the form <https://forms.gle/aTLrpgMFNdctLMEP7>)

**When:** Friday 16<sup>th</sup> April 2021, 15.00-15.30 Central European Time

### Webinar Format

- Introductions - Dr Paula Carroll, EURO WISDOM Forum Chair
- Optimisation (Facility Location and Network Design): Overview/Current Challenges, Prof Ivana Ljubic – 5 minutes
- Set-packing formulations in Facility Location, Dr Mercedes Pelegrin Garcia – 10 minutes
- Meeting the challenges - synergies with existing work - Prof Ivana Ljubic – 5 minutes
- Bring your own coffee and enjoy some networking and open discussion after the presentations – 10 minutes.

### Speakers and Abstract



**Dr Mercedes Pelegrin Garcia** is one of the YoungWomen4OR awardees. She is a Postdoctoral Researcher at Laboratoire d’informatique of the École Polytechnique, France.

Mercedes will discuss set-packing formulations in Facility Location. Problem-specific facets, namely clique and hole inequalities, will be described. Related computational experience will showcase the strength of these cuts, which can reduce the CPU times of a commercial solver in more than a half. Interesting connections between the presented facility location problems and haplotype phasing of diploid organisms will be exposed. For more information about Mercedes see <http://www.lix.polytechnique.fr/~pelegringarcia/>



**Prof Ivana Ljubic**, Professor of Operations Research at ESSEC Business School, Paris is academic director of the ESSEC & Mannheim EMBA program. Her research interests include combinatorial optimization, optimization under uncertainty, bilevel optimization. She uses tools and methods of mixed integer (non-) linear programming, meta-heuristics and their successful combinations for solving optimization problems with applications in network design and facility location.

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<sup>1</sup> WISDOM is a forum to support, empower, and encourage the participation of all genders in Operational Research and Management Science. It is an initiative supported by EURO, the Association of European Operational Research Societies. Please visit: <https://www.euro-online.org/web/pages/1654/wisdom>