Instances for the Recoverable Robust Two-Level Network Design Problem

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We provide the instances used in the paper **The Recoverable Robust Two-Level Network Design Problem**, by E. Álvarez-Miranda, I. Ljubić, S. Raghavan and P. Toth, accepted for publication in the *INFORMS J. on Computing*, 2014. This repository contains both the instances used in the paper as well as the results obtained by the proposed algorithm.

The accompanying data is contained in the following files:

- `Instancesrrtlnd.rar` In this compressed archive all the instances used in the paper are provided. The elementary organization of the instance files depend on the problem (RRTLND or RRTLStT), the instance class (`SC` or `G`), and the instance size.

- `InstancesDescription.txt` This file contains the description of the convention used to generate the instances.

- `summaryresults.xls` This spreadsheet reports the results obtained by our algorithm when applied to solve the different instances. Each sheet in this file contains the following columns:

  - Name: Name of the instance.

  - K: Number of scenarios.

  - pi: Value of π used when generating the instance (see the paper for more details).

  - LB: Lower bound attained by our algorithm.

  - UB: Upper bound attained by our algorithm.

  - Gap: Gap between LB and UB.

  - Time[s]: Running time of the execution (note that a time limit of 1,800 seconds was set).