

# TOMMASO URLI, PH.D.

Some of the projects I have developed or to which I collaborated in the field of optimisation and science is publicly available under some sort of open-source license. Following are my main contributions, which mostly consist of C++ or Python code.

More projects might become available on my [GitHub](#) page.

## OPEN-SOURCE CONTRIBUTIONS

JSON2RUN	<p>A tool to automate the design, running and analysis of experiments.</p> <p>License: MIT URL: <a href="https://bitbucket.org/tunnuz/json2run">https://bitbucket.org/tunnuz/json2run</a> Authors: Tommaso URLI</p>
JSON++	<p>A Flex/Bison-based JSON library written in C++11.</p> <p>License: MIT URL: <a href="https://bitbucket.org/tunnuz/json">https://bitbucket.org/tunnuz/json</a> Authors: Tommaso URLI</p>
GECODE-LNS	<p>A Large Neighborhood Search (LNS) meta-engine for GECODE (v4.2.0+).</p> <p>License: MIT URL: <a href="https://bitbucket.org/tunnuz/gecode-lns">https://bitbucket.org/tunnuz/gecode-lns</a> Authors: Tommaso URLI · Luca DI GASPERO</p>
GECODE-ACO	<p>An Ant Colony Optimization-based meta-engine for GECODE (v4.2.0+).</p> <p>License: MIT URL: <a href="https://bitbucket.org/tunnuz/gecode-aco">https://bitbucket.org/tunnuz/gecode-aco</a> Authors: Tommaso URLI · Luca DI GASPERO</p>
EASYLOCAL++	<p>A template-based C++ framework for the development of Local Search (LS) meta-heuristics.</p> <p>License: GNU GPL v3+ URL: <a href="https://bitbucket.org/satt/easylocalpp">https://bitbucket.org/satt/easylocalpp</a> Authors: Andrea SCHAEFER · Luca DI GASPERO · Sara CESCHIA · Tommaso URLI</p>
BBSS	<p>A CP+LNS solver for the Balancing Bike Sharing Systems problem.</p> <p>License: MIT URL: <a href="https://bitbucket.org/alt-optimization/bbss">https://bitbucket.org/alt-optimization/bbss</a> Authors: Tommaso URLI · Andrea RENDL · Luca DI GASPERO</p>
C++LEX	<p>A C++03 implementation of the Simplex algorithm by Dantzig.</p> <p>License: MIT URL: <a href="https://github.com/tunnuz/cplex">https://github.com/tunnuz/cplex</a> Authors: Tommaso URLI</p>
SMART VIEWPOINT COMPUTATION LIB	<p>A 3D viewpoint computation library written in C++, which allows, given a set of visual properties to be satisfied, to find an ideal virtual camera using Particle Swarm Optimization (PSO).</p> <p>License: GNU LGPL v2.1+ URL: <a href="https://bitbucket.org/rranon/smart-viewpoint-computation-lib">https://bitbucket.org/rranon/smart-viewpoint-computation-lib</a> Authors: Roberto RANON · Tommaso URLI (contributor)</p>
CAMERA EVALUATION LANGUAGE (CEL)	<p>A language to express and evaluate visual properties on 3D images by analyzing pixel-sets.</p> <p>License: Unspecified URL: <a href="https://github.com/tunnuz/cel-language">https://github.com/tunnuz/cel-language</a> Authors: Roberto RANON · Marc CHRISTIE · Tommaso URLI</p>

HOME CARE	<p>A CP+LNS solver for the Home Care Scheduling problem.</p> <p>License: MIT</p> <p>URL: <a href="https://bitbucket.org/satt/homecare">https://bitbucket.org/satt/homecare</a></p> <p>Authors: Tommaso URLI · Luca Di GASPERO</p>
CP-CTT	<p>A CP+LNS (GECODE-based) solver for the CB-CTT problem.</p> <p>License: MIT</p> <p>URL: <a href="https://bitbucket.org/tunnuz/cpctt">https://bitbucket.org/tunnuz/cpctt</a></p> <p>Authors: Tommaso URLI</p>
CITIBIKE NYC INSTANCE GENERATOR	<p>A collection of scripts to get snapshots from the CitiBike NYC bike sharing system, process the data and produce BBSS problem instances.</p> <p>License: MIT</p> <p>URL: <a href="https://bitbucket.org/tunnuz/citibike-nyc-instance-generator">https://bitbucket.org/tunnuz/citibike-nyc-instance-generator</a></p> <p>Authors: Tommaso URLI</p>
GPFRAMEWORK	<p>A Genetic Programming framework written in Java. Primarily developed as a tool for the experimental analysis of the complexity of GP algorithms.</p> <p>License: MIT</p> <p>URL: <a href="https://bitbucket.org/tunnuz/gpframework">https://bitbucket.org/tunnuz/gpframework</a></p> <p>Authors: Tommaso URLI · Markus WAGNER</p>
C++ STOPWATCH	<p>A stopwatch class to measure the duration of operations within C++.</p> <p>License: GNU GPL v3 URL: <a href="https://code.google.com/p/cpp-stopwatch">https://code.google.com/p/cpp-stopwatch</a></p> <p>Authors: Tommaso URLI</p>

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