M Gmail

Fabio Furini <fabio.furini82@gmail.com>

ROADMAP QPLIB -- part 6 -- draft proposal

Hans Mittelmann <mittelma@asu.edu>   13 luglio 2016 15:33
A: Fabio Furini <fabio.furini@dauphine.fr>
Cc: Hans Mittelmann <mittelma@asu.edu>

Dear Fabio,
here is just a first list of corrections:

page 1, end of abstract: final results look
Introduction line 5: rooted in
page 3 line 3: attempted, yet.
page 5 line 8: (MI(QC)QP) looks terrible but MIQP often means linear constraints???
page 5 line 6 third paragraph: in particular in the form of binary variables could always be "hidden"
by introducing (non convex) quadratic constraints utilizing the celebrated relationship…
page 6 line 4-6 of third paragraph: contained in
page 6 line -4: only requires
page 7 line 1 of second paragraph: It is important to note
page 7 line -9: be distinguished from
page 8 line 4: did not include a "D" option
page 8 line 15: those that can be
page 8 line 21: and those that are
page 8 line -13: are available that are able to
page 8 line -10: focussed on (focused on)
page 8 line -4: being equal, substantially
page 9 line 6: need to distinguish
page 9 line 11: even in the presence of
page 9 line 15: among which is the reformulation
page 9 line 21: is the most general
page 9 line -11: subdivided into
page 9 line -9; significant (scratch one)
page 9 line -9: and therefore can be of interest to researchers
page 9 line -4: structures that may be of interest to some researcher
page 9 line -2: we do not attempt ……and limit ourselves to
page 10 line 5 second paragraph: even when one exists
page 10 line 2 third paragraph: meta-heuristic methods
page 11 line 4: possibly via devices that
page 11 line 2 second paragraph: The (k+1)-st iterate
page 11 second paragraph: There are more general methods with non monotone descent etc; maybe say: in general…
page 11 paragraph on Active set methods: They typically do not work with A but with a working set W which is a subset of A
page 13 line 2 third paragraph: on whether the local search they utilize
page 13 line -8: calling exact a solver that employs
page 13 line -4: shall loosen the
page 14 line 2: this tree is NOT called "decision tree" as far as I know
page 14 line 9: children of the current one
page 14 line 5 of third paragraph: bounds improves
page 14: MOSEK has CGC capabilities, so should be listed there; but there are others such a minlp_bb, minotaur. filming etc
page 14: there is no KNITRO_BB. it is just KNITRO. When integer variables are present it automatically employs BB
page 15: a number of errors in Table 1, for example: the following are not exact for non convex problems
        alphaECP, DICOPT, SBB, LGO
page 16 line 5 of 3.1: both in academia
page 16 line -6: eight thousand
page 17 line 1 of 3.2: no specific formats were
page 17 line 3 of 3.2: to use GAMS as
page 17 line -2: to translate an instance from a given format to the .gms format
page 18 line 1 of text: a specific format .qplib
page 18 line 1 of 3.3: the following features have been

page 18 line —8: Continuous and Quadratic

cheers,
Hans

Begin forwarded message:

From: Fabio Furini <fabio.furini@dauphine.fr>
Subject: ROADMAP QPLIB -- part 6 -- draft proposal
Date: July 12, 2016 at 1:16:35 PM GMT+2
To: Hans Mittelmann <mittelma@asu.edu>, Antonio Frangioni <frangio@di.unipi.it>, Fabio Furini <fabio.furini@dauphine.fr>, Leo Liberti <leoliberti@gmail.com>, Sahinidis <niksah@gmail.com>, Nick Gould <nick.gould@stfc.ac.uk>, "angelika.wiegele@aau.at" <angelika.wiegele@aau.at>, Pierre Bonami <pierre.bonami@lif.univ-mrs.fr>, "Misener, Ruth" <r.misener@imperial.ac.uk>, "Belotti, Pietro Luigi" <pietrobelotti@fico.com>, Alper Atamturk <atamturk@berkeley.edu>, FRoupin <roupin@lipn.univ-paris13.fr>, Sam Burer <samuel-burer@uiowa.edu>, "<sourour.elloumi@ensiie.fr>" <sourour.elloumi@ensiie.fr>, Hans Mittelmann <mittelmann@asu.edu>, Pierre Bonami <pierre.bonami@es.ibm.com>, Andrea Lodi <andrea.lodi@unibo.it>, Emiliano Traversi <emiliano.traversi@gmail.com>, Ambros Gleixner <gleixner@zib.de>, Andrea Lodi <andrea.lodi@polymtl.ca>, Stefan Vigerske <svigerske@gams.com>

[Testo tra virgolette nascosto]

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