

Subject: Re: Your work on FURY

From: Michael Schroeder <michael.schroeder@tu-dresden.de>

Date: 10/20/2017 9:55 AM

To: <hassanaitkaci@gmail.com>, Michale Schroeder <ms@biotec.tu-dresden.de>

CC: David Gilbert <david.gilbert@brunel.ac.uk>, Pasi Gabriella <pasi@disco.unimib.it>

Dear Dr. Ait-Kaci,

thanks for your interest in our paper. It has been a very long time! I quickly skimmed over your argument (the box in red in your document) and it appears sensible to me. I did not pursue our work further and I have no doubt that there are many ways how to improve or correct the initial approach.

Best, Michael Schroeder

Hassan Ait-Kaci <hassanaitkaci@gmail.com> schrieb am Fr., 20. Okt. 2017 um 09:11 Uhr:

Hi,

This is forwarded after initial address "msch@soi.city.ac.uk" bounced back.

Hope this email "ms@biotec.tu-dresden.de" is correct. (Copied all other previous addressees.)

Sorry.

-hak

----- Forwarded Message -----

Subject:Your work on FURY

Date:Fri, 20 Oct 2017 08:50:22 +0200

From:Hassan Ait-Kaci <hassanaitkaci@gmail.com>

Reply-To:hassanaitkaci@gmail.com

To:David Gilbert <david.gilbert@brunel.ac.uk>, Michael Schroeder <msch@soi.city.ac.uk>

CC:Pasi Gabriella <pasi@disco.unimib.it>

Dear Profs. Gilbert and Schroeder,

I am taking the liberty of contacting you regarding your joint work, a couple of decades ago, on the fuzzy LP system FURY.

I myself am no expert in Fuzzy Logic nor its use in implemented systems, having a more solid background and experience in (Constraint) Logic Programming (whether theory, implementation, or application). Lately, I have been interacting with [Prof. Pasi](#) of U. of Milano-Bicocca (cc'ed), a well-known expert in approximate Information Retrieval on her use of Fuzzy Informatics for interpreting and filtering information despite its many possible distinct, though similar, encodings as data and knowledge.

One such issue for us has been understanding previous work on "fuzzy unification". Our interest was on the CLP side of this topic. We eventually formalized some of our ideas proposing a

general declarative scheme viewing fuzzy FOT unification and generalization (a.k.a. "anti-unification") as [lattice-theoretic fuzzy constraint processing](#). However, in the course of this research, we also reviewed the history of relevant work in related areas, taking notes as we proceeded. Your work on FURY was among those that interested us, so we reviewed its LP technology in some detail. (We paid less attention to your biological information processing applications - although we appreciate the relevance and worth of using the former for the latter.)

Although the specifics of FURY turned out to be not exactly what we were after, your publications still gave us some appreciation of what had been realized at the cross of Fuzzy Logic and Unification technologies.

While reviewing your work on FURY (essentially [this paper](#) - and correlates), there were a couple of questions that we could not resolve. Attempting to settle those, we wrote [this short set of notes](#) describing your approach to fuzzy unification based on edit distance in some detail. Where we could not understand, we made some comments (in red). We would thus be very grateful if you would be so kind as to take a look at these notes and give us your comments confirming what we understood correctly as well as addressing our misunderstandings. (The reference citation numbers in the notes correspond to [this bibliography](#)).

Thanks.

Cordial Regards,

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-hak

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