

Reflektion to

## **A Versatile Experimental Tool for Fuzzy Signature Data Mining**

by T.Vamos, I.Soos, A.Koczka

Thank You for sending me this newest edition. I am only a private scientist and my opportunity to good scientific work is very modest. But I give back what I think.

Your epistemic introduction is very useful for me, because I need “scientific embedding”. I learned the background about KOLMOGOROV and CIACCIA. Thank You for it.

To introduce my way of thinking I have to say, that I was working since about 25 years in Informatics Praxis. So I am coming from reality in industry in Austria, Germany and Switzerland.

I hope I can bring some critical statements (bottom up) opposite the deduction from philosophical level.

The ideas of signatures based on Fuzzy-Philosophy is a new way of thinking. It is a revolution in the result. This is more human like.

You mention the numeric-statistical basis of informatics till now.

I think through informatics we saw the edge of this “System-thinking”. Every system is one to one translatable to an algorithms and out of it to an application.

Then the work for an intelligent human person is done. The application can be implemented and gradually upgraded - finished.

Till now we thought in exact mathematical formulas and rules. In informatics a system is perfect, if it works without braking down and does all we wanted it has to do. We can create machines – no doubt.

But the human intelligence isn't satisfied by this “machine”. After some time we are not proud on our perfect software. Our tools are not more interesting, if they are perfect. The prices of software are permanently falling.

New ways of thinking are searched. I think we have to think back to our human intelligence possess. Artificial Intelligence is not better than intelligence.

Slowly we start to enslave software applications to tools. The human being knows more than producing new applications.

So informatics brought us back the “non-formal” part of our live. That parts are not always the same and have to be solved case by case new – and that's human life.

We start to change mathematics to more human way of thinking. Informatics brought new termini to classical mathematics.[1] A closed system is, if it is recognised, not more interesting. There must be always something to conquer.

Of course I admire Your new “experiment” for medical and social-economic purposes. I think it leads one step forward to a more human way of “problem-solving”. It makes sense to bring a big amount of Knowledge to one system and to build new structures of this big and complex amount. You write about 2 decades of experience. That’s really great!

Last not least You have found a new way of “data storage” and “data mining”. Every hospital will be grateful, if it can use this.

I want to give power for the next step. I would be interested in making this system to a “more human like living system”. My interests are to “personate” this databases.

Every user-expert has his own level of knowledge and should have the possibility to add new relations online. The numeric basis is necessary, but I think only for fixing a structure in this big amount of data. The content of this structures is important for the user.

I think in using this structuring in background only. The paradigm Cluster-Signature-Scores and Granulates must be useable as a “case or box”, where the user can store his knowledge according to his own personally way of keeping and using knowledge.

The user should also have more possibilities to set termini, relations and weights.

As I understand Your paper, now he is searching for relations and details. Years ago he was reading a book. Now he is using this “Expert System”. If he gets the possibility to create “his library” he will have more satisfaction and joy using it.

The question now is, how to solve this....

F. Plochberger, April 2003

Uses Literature

[1] Berechnungstheorie für Informatiker, Prof.Engeler/Läuchli ETH Zürich, Verlag B.G.Teubner Stuttgart 1988