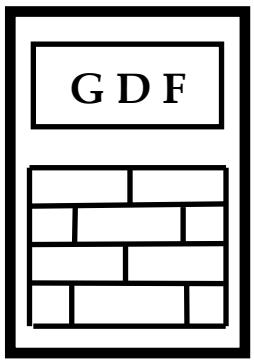
GDF DATA BANKS BULLETIN

HuPoTest – 50 years of research



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Global warming facts

"The analysis by the Goddard Institute of Space Studies (GISS) team [1] is assembled from publicly available data acquired by about 6300 meteo stations around the world, ship- and buoy- based instruments measuring sea surface temperature and Antarctic research stations. The modern global temperature record begins around 1880 because previous observations didn't cover enough the planet."

Data covering the period of 1880-2015 must be considered because these have profound significances for every citizen of our planet, even more now when the Paris Agreement on pollution restrictions adopted in 2016 is rejected by USA – one of the most important polluting countries. However, the International Temperature Scale was revised several times during that period and the measurements revealing global warming require accuracy under 0.1 ^{0}C.

I have considered in graphic form three categories of annual average temperature values, namely: on global level (Figure 1); on the northern (Figure 2) and on the southern hemispheres (Figure 3). Also important are the evolution of associated standard deviations (Figures 4-6, respectively).

As a general observation all temperature values are increasing in exponential manner over all period considered. There is a local plateau for global and northern hemisphere corresponding the immediate period after WW2 followed by the cold war when the two main political blocks imposed sever restrictions for people migration. The southern hemisphere was not affected by WW2 and cold war as northern hemisphere was. Technological revolution mainly due by introduction massively of robots and information technology has imposed falling of iron curtain followed by massive migration of people, more and more consumption of energy and goods, increasing pollution and progressively greater global warming more significantly in northern hemisphere. Standard deviations show greater values at early years because of small and disperse populated areas. The effect of globalization can be simply defined by: exponential increase of population [2], exponential increase of average annual surface temperature and decrease of associated standard deviations.

On my opinion there is no chance to stop by rational and political acts this evolution, so an imminent nuclear conflict will occur at approximately 2035 ± 3[2].

[1] National Aeronautics and Space Administration Goddard Institute for Space Studies, NASA Official: Gavin A. Schmidt GISS Website Curator: Robert B. Schmunk Page updated: 2016-09-10 11:43; GISS Surface Temperature Analysis (GISTEMP); http://data.giss.nasa.gov/gistemp/; Date of access: 23 Sept 2016.
[2] G.Dragan, Quo vadis population growth on planet Earth: more details, GDF Databanks Bull., 20(1) 2016.

Topoenergetic structure of trees ramification

One of the main topoenergetic working principles consists in the relationship between potential driving a transforming process and the response function defined from the time-conversion of this process [1]. Some similar processes are studied recently for which potential is the order of structures in the considered systems and the response function is the amplitude of the respective order. For instance, see details for economic structures at global and/or local levels and Eurovision song contest [2]. Trees ramification process is another case able to be described according to topoenergetic principles. Figure 7 shows the structure of tree ramification revealed by five orders, n and at each order exist different numbers of branches summarized over all branches of the same order. Table is an example for exact evidence of all branches at each order n. For the example considered in Figure 8 there are fitted 3 functions describing relationship A(n). For practical cases, these relationships will reveal important properties specific both to each individual (ontogeny) and to a group of individuals (phylogeny) [1, 3].

[1] G.Dragan, Solubility behavior introducing topoenergetic working principles; Comments on 1-octanol-water partition of several n-alkane related series, GDF Databanks Bull., 1(1) 1997.
[2] G.Dragan, Upon some features of global economic structure; Eurovision song contest 2017, GDF Databanks Bull., 21(6) 2017.
[3] G.Dragan, Structural and relativistic aspects in transforming systems. 1.. Arrhenius and Universal representations of thermally driven processes, GDF Databanks Bull., 21(6) 2017. 15(20 2011.

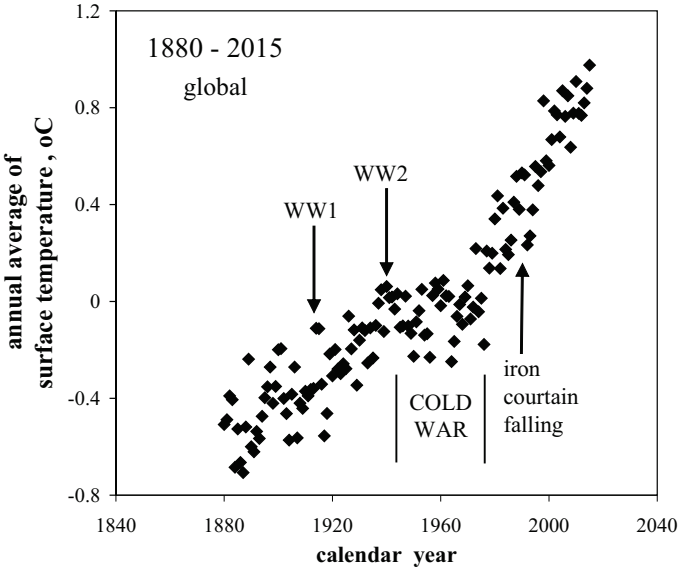

Figure 1.

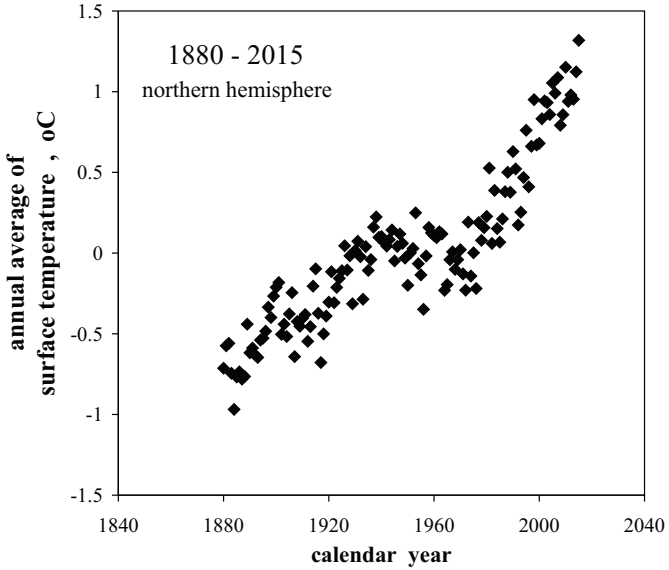

Figure 2.

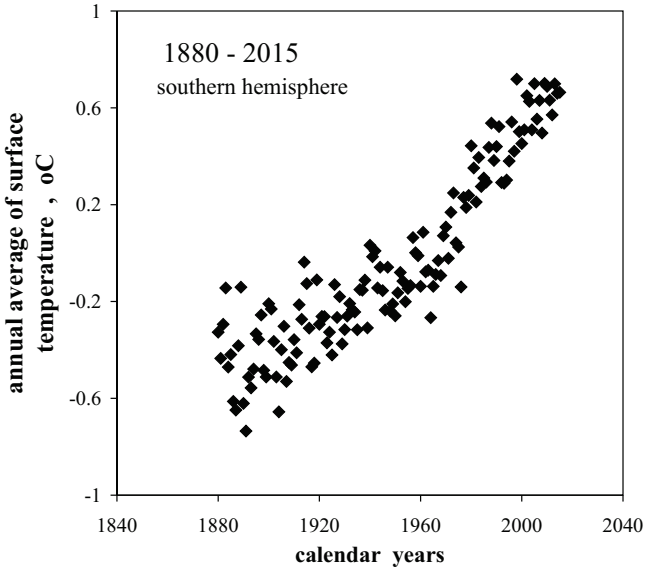

Figure 3.

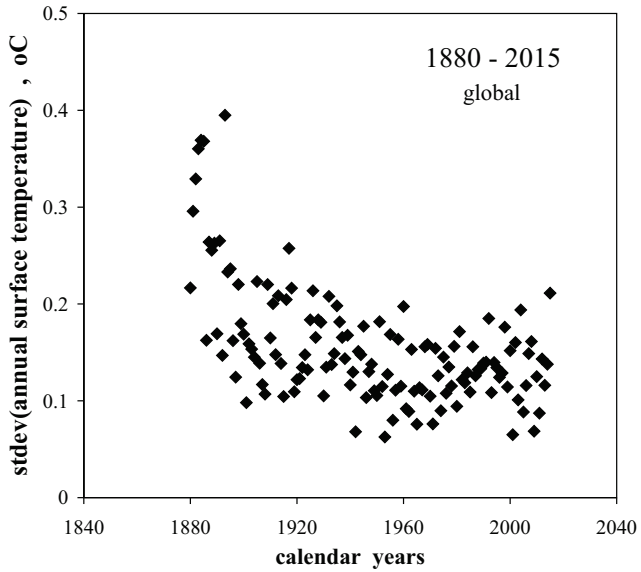

Figure 4.

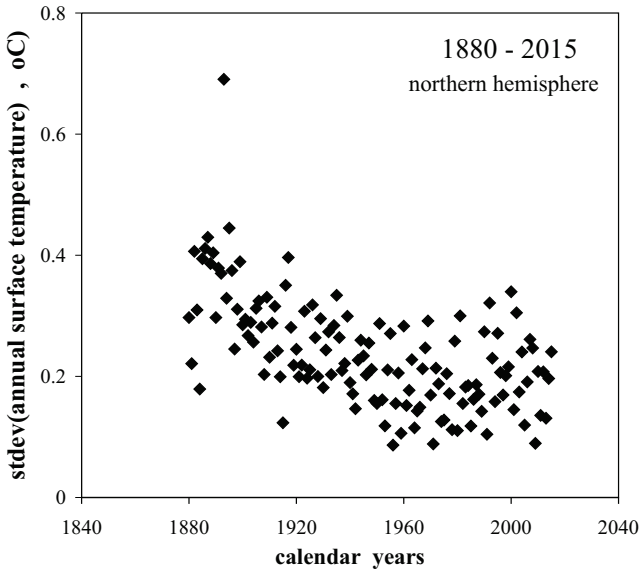

Figure 5.

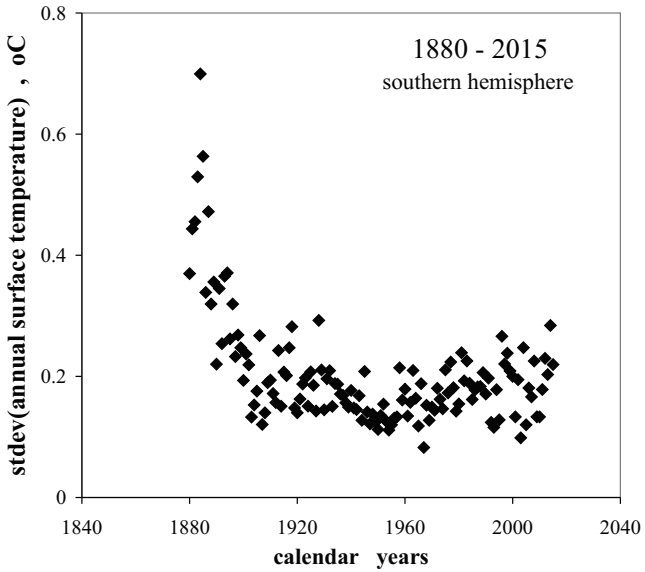

Figure 6.

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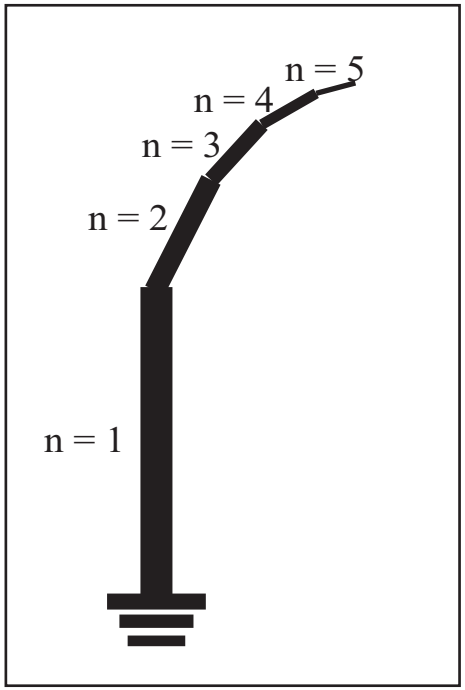

Figure 7. Schematically representation of ramification ordering in a tree.

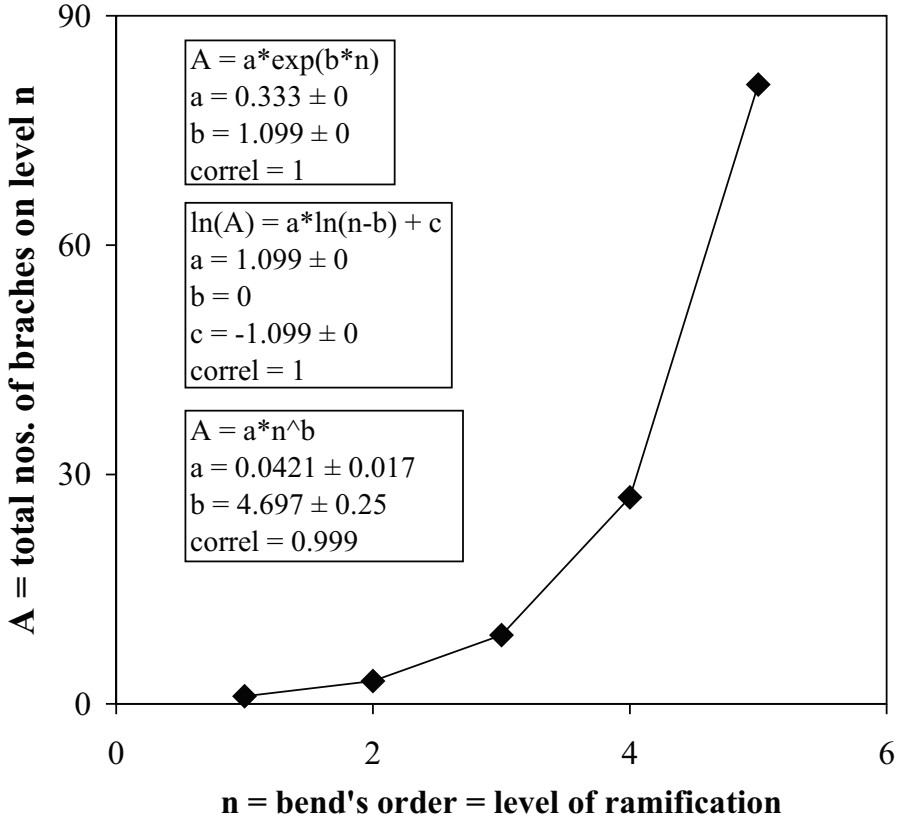

Figure 8.

Example table for evidence of a tree ramifications.
Arbitrarily are chosen 3 ramifications between two successive levels.

n																										A=Total
1	1																									1
2	3																									3
3	3						3						3													9
4	3			3			3			3			3			3			3			3			27
5	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	81

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Previous issues of GDF DATABANKS BULLETIN

Year	VOL	NO	Content (titles)	$*)
1997	1	1	Editorial: Databanks – the compulsory language. LOGKOW – a Databank of evaluated octanol-water partition coefficients (James Sangster). Solubility behavior introducing topoenergetic working principles. Comments on 1-octanol-water partition of several n-alkane related series.	F
1997	1	2	Guide of good practice in metrology (Romanian)	AFI
1998	2	1	Editorial: socio-psychological implications in creation and utilization of a databank (Ioan-Bradu Iamandescu); Behavior in vapor-liquid equilibria (VLE): I. Structural aspects; Behavior in vapor-liquid equilibria: II. Several structures in databanks; Symposium on VDC-4 held on 30 October 1997 at Lubrifin-SA, Brasov (Romania).	F
1998	2	2	Practical course of metrology (Romanian)	AFI
1998	2	3	DIFFUTOR-01: Thermally driven diffusion in pure metals	AFI
1998	2	4	VAPORSAT-01: Databanks of thermally driven VLE. The first 100 simple molecules	AFI
1999	3	1	Editorial: New trends in material science: nanostructures (Dan Donescu) DIFFUTOR: Databanks of diffusion kinetics. VAPORSAT: Databanks of vapor-liquid separation kinetics.	F
1999	3	2	Discussions on Applied Metrology	AFI
2000	4	1	Editorial: Laboratory accreditation and inter-laboratory comparisons (Virgil Badescu) Doctoral Theses – important data banks. GDF intends to open new series of experiments on thermo-physical properties. Some comments on uncertainty: global budget and DFT analysis. Events: The 9th International Metrology Congress, Bordeaux, France, 18-21 October 1999.	F
2000	4	2	Measurement and Calibration.	AFI
2001	5	1	Editorial: Metrology ensures moral and technological progress. Topoenergetic aspects of amorphous-crystalline coupling. I. Composite behavior of water and aqueous solutions (paper presented at nanotubes and Nanostructures 2001, LNF, Frascati, Rome Italy, 17-27 October 2001). Events: Nanotubes and nanostructures 2000.School and workshop, 24 September – 4 October 2000, Cagliari, Italy.	F
2001	5	2	Editorial: Viscosity – a symptomatic problem of actual metrology. Visco-Dens Calorimeter: general features on density and viscosity measurements. New vision on the calibration of thermometers: ISOCALT® MOSATOR: Topoenergetic databanks on molten salts properties driven by temperature and composition.	F
2002	6	1	MOSATOR-01: Topoenergetic databanks for one component molten salts; thermally driven viscosity and electrical conductance.	AFI
2002	6	2	Editorial: HuPoTest - Operator calibration or temporal scale psychic test. MOSATOR: topoenergetic databanks of one component molten salts; thermally driven viscosity and electrical conductance.	F
2002	6	3	Editorial: Quo vadis Earth experiment? ISOCALT® : Report on metrological tests	F
2003	7	1	Editorial: Time – an instrument of the selfish thinking. 1st NOTE: Homoeopathy: upon some efficient physical tests revealing structural modifications of water and aqueous solutions. I. Mixing experiments.	F
2004	8	1	Metrological verification and calibration of thermometers using thermostats type ISOCALT® 21/70/2. Metrological verification and calibration of thermometers using thermostats type ISOCALT® 2.2R.	F
2004	8	2	Aspects of correct measurements of temperature. I. measurement of a fixed point according to ITS-90. Physics and Homoeopathy: some physical requirements for homoeopathic	F

			practice.(Plenary lecture at the 19th SRH National Congress, 21-22 September 2004, Bucharest, Romania)	
2005	9	1	AWARD for ISOCALT® at the International Fair TIB-2004, October 2004, Bucharest. ISOCALT® 3/70/21 was awarded in a selection of 20 products by a commission of experts from the Polytechnic University of Bucharest. Upon some aspects of temperature measurements. (12th International Metrology Congress, 20-23 June 2005, Lyon, France)	F
2005	9	2	A new technique for temperature measurement and calibration. National Society of Measurements (NSM). Important warning for T-calibrator users: MSA has chose metrology well calibrators from Fluke (Hart Scientific).	F
2005	9	3	Universal representation of Cancer Diseases. 1. First sight on NSW-2003 report. Universal representation of Cancer Diseases. 2. UK cancer registrations on 1999-2002. Vital Potential can estimate our predisposition for cancer diseases.	F
2006	10	1	NTC – thermistors -1	AFI
2007	11	1	HuPoTest - 40 years of continuous research Basic rules for preventing and vanishing cancer diseases Climate change = change of mentality Hot nuclear fusion – a project of actual mentality	F
2007	11	2	MT – Introduction to Mental Technology HuPoTest – general procedure, assignments of results, specimen of complete test, order and obtain your complete HuPoTest report	F
2007	11	3	TRESISTOR© - data banks of materials with thermally driven electric and magnetic properties TRESISTOR© - NTC -1 - data bank of NTC thermistors	AFI
2008	12	1	Australian population: life, death and cancer	F
2008	12	2	Pattern of Cancer Diseases	F
2008	12	3	Adiabatic calorimetry – summary description of the demo prototype	F
2008	12	4	Flight QF 30 and even more… Temperature calibration of NTC-thermistors. 1.Preliminary results.	F
2009	13	1	Proposal for interlaboratory comparisons. Calibration of NTC-thermistors (The 14th International Metrology Congress, Paris, France, 22-25 June 2009).	F
2009	13	2	Sudoku – un algoritm de rezolvare. (Sudoku – an algorithm for solution).	AFI
2009	13	3	Cancer and Diabetes – as social diseases. (Open letter to all whom it may concern).	F
2010	14	1	Studies on cement hydration by High Resolution Mixing Calorimetry (HRMC).	F
2010	14	2	Measuring tools for subtle potentials; pas-LED: an efficient measuring tool for subtle potentials.	F
2010	14	3	Upon some features of cancer in Australia: 1982 – 2006.	F
2010	14	4	Cancer as an erosion process in human society.	F
2010	14	5	Cancer erosion in Australian human society: 1982 – 2006.	F
2010	14	6	Cancer erosion in German human society:1980-2008.	F
2011	15	1	Procedures and devices for energy and water saving. (I) (in Romanian).	F
2011	15	2	Structural and relativistic aspects in transforming systems. I. Arrhenius and Universal representations of thermally driven processes.	F
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2011	15	4	Topoenergetic aspects of human body	F
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2012	16	3	DTA study of water freezing. III. New facts on daily mental field.	F
2012	16	4	Mental field and state of health. Câmpul mental şi starea de sănătate.	F

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2013	17	3	AC electric conductivity of untreated and mentally treated electrolyte aqueous solutions.	F
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2013	17	5	DTA study of water freezing. VII. More statistical features on one week of experiments.	F
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2013	17	7	Time as unique base quantity. (Proceedings of the 16th International Congress of Metrology, 7-10 October 2013, Paris, France).	F
2013	17	8	Eurovision song contest. 1.Basic social aspects	F
2013	17	9	Mental field-water interaction as evidenced by Isothermal Convection Flow Calorimetry (ICFC). I. ICFC description and preliminary results.	F
2013	17	10	1. Procedure for defining standard liquids for viscosity based on topoenergetic principles. 2. Topological aspects of flow and deformation in polymer composites, The VIII-th International Congress on Rheology, 1-5 September 1980, Naples, Italy, pp. 375-376. 3. Universal representation of flow behavior based on topoenergetic principles, The IX-th International Congress on Rheology, 8-13 October 1984, Accapulco, Gro. Mexico, pp.369-376. 4. Comments on "Universal representation of flow behavior based on topoenergetic principles", The IX-th International Congress on Rheology, 8-13 October 1984, Accapulco, Gro. Mexico, pp. 369-376. 5. Open letter to BRML and INM.	F
2014	18	1	Adiabatic calorimeter as high accuracy T-calibrator	F
2014	18	2	Mental field-water interaction as evidenced by Isothermal Convection Flow Calorimetry (ICFC). II. Effect of convection flow power.	F
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2015	19	4	High Resolution Mixing Calorimetry (HRMC) redivivus. 2. Structure developing of aqueous solutions by mixing experiments.	F
2015	19	5	High Resolution Mixing Calorimetry (HRMC) redivivus. 3. Calibration	F
2015	19	6	Evidence of human mental field by ac-electric conductivity in electrolyte solutions. 1. Bio-energy.	F
2015	19	7	High resolution mixing calorimetry redivivus.IV. Specific heat of crystalline phase of water. WPA2015: International Congress of World Psychiatric Association,Primary care mental health: innovation and transdisciplinarity, Bucharest, 24-27 June 2015, ROMANIA	F
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2016	20	2	Structural aspects revealed by topoenergetic view on ac electric conductivity in HCl/(water + organic solvent)	F
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2017	21	3	Interaction of quartz crystals with bio-fields. VI. Influence of Moon phases	F
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2017	21	5	Interaction of unpolarized capacitors with Human Mental Field and Bio-Fields. VIII. Dielectrics with high oriented crystalline structure. HuPoTest – data base correlations revealing mental pattern.	F
2017	21	6	Upon some features of global economic structure Eurovision song contest 2017	F
2017	21	7	HuPoTest – proper training and creation of simple database in view to evaluate mental improvement HuPoTest – project for the complete software available for any individual user	F

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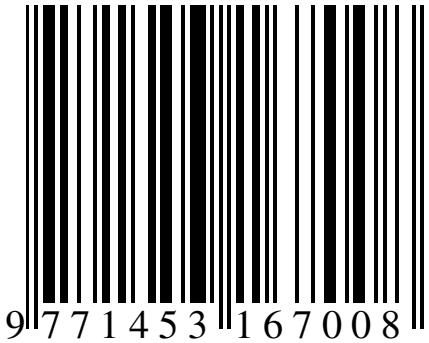

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