

MIRCEA GLIGOR

IN MEMORIAM



Profesorul Mircea Gligor s-a născut pe 13 mai 1963, în localitatea Sărmaș, județul Mureș. A absolvit Facultatea de Fizică din cadrul Universității "Babeș-Bolyai" din Cluj-Napoca, ca șef de promoție, în anul 1986, devenind pentru 28 de ani profesor de fizică la Liceul "Roman-Vodă" din Roman. În perioada 1997-2003, și-a pregătit doctoratul în fizică aplicată în economie și științele sociale. A susținut, în 2004, lucrarea "Modele termodinamice și statistice pentru studiul sistemelor socio-economice disipative", sub îndrumarea profesorului universitar doctor Margareta Ignat, de la Universitatea "Alexandru Ioan Cuza" din Iași, obținând distincția "Summa Cum Laude".

The late teacher Mircea Gligor was born on 13 May 1963, in Sărmaș, Mureș county. He graduated in Physics from the "Babes-Bolyai" University in Cluj-Napoca, as the topmost-ranking student of the year 1986, becoming a teacher of physics – his job for 28 years at the "Roman-Vodă" high school in Roman. Between 1997 and 2003, he prepared a doctorate in applied physics (with relation to economics and social sciences). In 2004 he defended his thesis, entitled "Thermodynamic and statistical models for the study of socio-economic dissipative systems", under the guidance of Professor Margareta Ignat, Ph.D., of the University "Alexandru Ioan Cuza" in Iași, being awarded the distinction "Summa Cum Laude".

În 2003, a fost recompensat de către Academia Română cu Premiul "Ștefan Procopiu". Teza sa de doctorat a fost prima teză dedicată Econofizicii și Sociofizicii la noi, de către un spirit viu cu o mentalitate de învingător, a unui autor român care beneficiat pentru meritele sale deosebite de o bursă postdoctorală la Universitatea din Liège (Belgia), sub îndrumarea profesorului Marcel Ausloos. A participat la conferințe naționale și internaționale, așa cum pot fi amintite "Econophysics and Complexity", în 2005, în SUA, și, din 2008, la "Workshop International EDEN – Exploratory Domains of Econophysics News", la Pitești, al cărui suflet a fost, este și va dăinui... A murit tot așa cum a trăit, printre aceia care și-au dorit mereu să cunoască și să înțeleagă!

In 2003, he was given the "Ștefan Procopiu" award of the Romanian Academy. His was the first thesis devoted to Econophysics and Sociophysics in this country, by a man animated by a lively spirit, with a winner's frame of mind, a Romanian author of merit who received a postdoctoral scholarship at the University of Liège (Belgium), under the guidance of Professor Marcel Ausloos. He participated in national and international conferences, such as "Econophysics and Complexity" in 2005, in the US, and from 2008 to 2014, in the "International Workshop EDEN – Exploratory Domains of Econophysics News" in Pitești, whose very formative spirit he actually was – and he will endure as such... He died just as he lived, among the people like him, who wanted always to know and understand!

EDEN I

Abstract

"More and more systems studied in the social sciences were found to be described by power law statistical distributions. This class of distributions is fascinating for the physicist. The reason is that the most complex, collective phenomena do give rise to power-laws, which are universal that is to a large degree independent of the microscopic details of the phenomenon. The power-laws emerge from the collective action and transcend individual specificities".

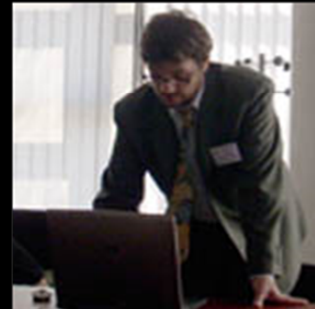
(Mircea Gligor, February 29th, 2008)

e-mail

Nu stiu de ce (probabil in orice institutie) atunci cand cineva face eforturi disperate pentru a-si indeplini sarcinile la timp, cei din jur simt nevoia sa i le dubleze. Poate este si asta o lege (neinvestigata inca) a sociofizicii...

I do not know why (perhaps in any organization or institution), when someone makes desperate efforts to accomplish their tasks on time, some of the others feel the need to duplicate them. Perhaps this is also a (yet uninvestigated) law of sociophysics.

(Mircea Gligor, September 21st, 2008)



EDEN II

Abstract

During the last decade, some theoretical physics models turned out to be useful for describing not only the financial and economic interactions but also more complicated problems of the social psychology (extending in this way the traditional field of 'econophysics'). The emerging field of 'sociophysics' uses with predilection non-equilibrium statistical physics tools as the random cluster models, the diffusion-limited aggregation formalism, the percolation theory and the evolving networks analysis. The social phenomena that may be modelled by these tools pertain to a large sphere, including the spontaneous social coalition's formation and breakdown, the fashion and advertising fluctuations, the dynamics of individual specialization and global diversification in communities and the fear and rumour spreading.

(Mircea Gligor, February 8th, 2009)

e-mail

Mi-a luat ceva timp elaborarea versiunii in limba romana, in special datorita necesitatii de a gasi (in premiera) echivalentul romanesc al unor termeni uzuali din fizica retelelor complexe si teoria grafurilor

Drafting and developing the Romanian version took me a lot of time, in particular due to the necessity of finding (for the first time) the Romanian equivalent of some common terms specific to the physics of complex networks and graph theory.

(Mircea Gligor, March 4th, 2009)



EDEN III

e-mail

Many thanks for the very good news concerning the book. This is a powerful incentive to continue work in this field.

Multumesc mult pentru stiri foarte bune legate de carte. Este un imbold puternic pentru a continua lucrarile in domeniu.

(Mircea Gligor, February 3th, 2010)

Abstract

The properties of the weighted networks are investigated using some statistical physics tools, taking into account the statistical ensemble of the networks with fixed number of vertices. As application, the correlations between GDP/capita time series are investigated in various time windows, over the time interval 1993-2008... Particularly, the concept of entropy, based on the probability of one particular realisation from the statistical ensemble, may yield some more information about the structure, stability and evolution of the EU country clusters. (Mircea Gligor, May 9th, 2010)



EDEN IV

Abstract. Today (September, 2011) in Romania there are 320 towns. In the present paper, we demonstrate that using the updated dataset, the basic features of distributions remain essentially the same... The Central Places Theory, the diffusion-limited aggregation and the self-organized criticality mechanisms are investigated by means of some numerical simulations and the last two are found to fit better the urban perimeter growth. (Mircea Gligor, October 15th, 2011)

Din pacate, cei de sus se pare ca nu au altceva mai bun de facut decat sa inventeze noi si noi mijloace de a ne ocupa timpul cu inutilitati, iar ca sef de catedra resimt toate astea in plin. De vina mai sunt si fostii mei dascali de la universitate care m-au invatat sa ma achit de toate obligatiile, pe cat posibil fara rabat de la calitate (formatie? sau malfomatie!?) Evident, EDEN IV ar fi o oaza de aer curat care ne-ar incuraja sa inotam cu mai mult spor prin rutina zilnica spre o destinatie mai interesanta. Mai ramane ca Cel de Sus sa aranjeze putin lucurile in matca lor, incat macar de acum incolo sa ne bucuram de ceva mai mult timp la dispozitie pentru a scrie articole incitante si de calitate.

Unfortunately, our betters seem to have nothing better to do than inventing renewed ways to occupy our time with useless concerns, and, as head of the department, I am fully aware of that. Maybe some of the fault lies with my former university teachers, who have taught me to achieve all my obligations, if possible without sacrificing quality (does it have anything to do with my intellectual background, or is it a malformation!?)... Obviously, EDEN IV can be seen as an oasis of fresh air, which could encourage us to swim faster against the current of our daily routine for a more interesting destination. Let us hope that the Lord above pleases to arrange things in their usual frame, so that, at least from now on, we could enjoy more time available to write exciting, quality papers.

(Mircea Gligor, October 19th, 2011)



EDEN V

e-mail

Gligor jr. uses much of my time – before we can learn together how to study in secondary school. My memories from EDEN will remain the most beautiful this summer. (Mircea Gligor, 3 July 2012) My way of working, for many years now, has consisted, when I start to revise a paper, in not interrupting the process, because otherwise I find it hard to resume work (it often cost me completely sleepless nights, and this means more than simply going to bed at small hours).

Gligor jr. imi rapeste mult timp - pana ne deprindem cu modul de a invata la gimnaziu. Amintirile de la EDEN vor ramane, pentru mine, printre cele mai frumoase din vara aceasta. (Mircea Gligor, July 3th, 2012) Modul meu de lucru de multi ani incoace este ca atunci cand incep revizia unei lucrari sa incerc sa nu ma intrerup, pentru ca imi vine greu pe urma sa o reiau (asta m-a costat de multe ori nopti complet albe si nu numai culcatul la o ora tarzie).

(Mircea Gligor, September 9th, 2012)

Abstract. Some of the most significant points in the study of the „small world” (SW) effect are briefly reviewed in the first section of the paper, starting from the Milgram’s sociological experiment, the paradigm of the „six degrees of separation”, and the Watts and Strogatz’ model. The problem is important taking into account that the spread of news, jokes, fashions, rumour, as well as epidemics, all take place by contact between individuals, far faster over a social network in which the average degree of separation is small than it can over one in which the average degree is e.g. 25.

(Mircea Gligor, May 4th, 2013)



EDEN VI

Abstract

Some methods taken from the statistical thermodynamics may be applied in order to model several social phenomena for which, at the time being, we have qualitative descriptions only (e.g. the fear/rumour propagation process in the stock market space). The speculative bubbles are seen as non-equilibrium patterns resulted from the reaction-diffusion mechanism. The fashion fluctuation could be seen as noise induced transitions in a system in which the interaction among individuals is described by means of the classical Ising-spin model.

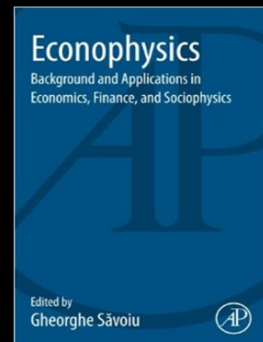
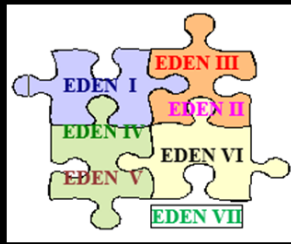
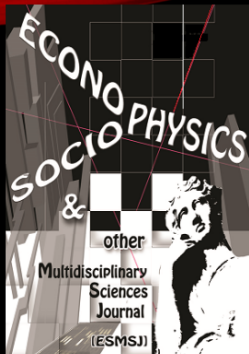
(Mircea Gligor, April 29th, 2014)

Ultima intalnire de suflet cu prietenul nostru drag Mircea Gligor...

Our last meeting with our dearest friend Mircea Gligor



EDEN VII



MIRCEA GLIGOR IN MEMORIAM

Mircea Gligor, the man and the teacher, is no more with us, but his spirit and courage, his gentleness and the depth of his knowledge of sociophysics and econophysics will be immortalized in EDEN! Our dear friend, you left, and you paradoxically and peerlessly remain with every one of us!

Mircea Gligor nu mai este, dar spiritul și curajul lui, blândețea și profunzimea cunoașterii sale econo și socio-fizice vor eterniza in EDEN! Prieten drag, ai plecat și ai rămas paradoxal și inegalabil în fiecare dintre noi !

26 FEBRUARY 2015, ORA 13...

INFORMATIA SOSESTE FULGERATOR PRIN INTERNET, DE PESTE OCEAN, DIN SUA, DE LA UNUL DIN PRIETENII LUI SI AI EDEN-ULUI, THIMS LIBB: PROFESORUL MIRCEA GLIGOR A MURIT!

26 February 2015, at 13.00... The information comes like a thunderbolt via the Internet, from overseas, i.e. from the US, sent by one of his and EDEN's friends, Thims Libb: Professor Mircea Gligor has died!

Our ancestors complained to the birth of a child and enjoyed each death as a real celebration for a high character of a good and brave man...According to Herodotus, Zalmoxis character has two halves: the first was Chthon (Infernal) and the second was Uranian (heavenly) and he was a slave of one of the wisest of the Greeks - Pythagoras ... Mnaseas of Patrae identified Zalmoxis with Cronos...Contemporary scientists and friends from EDEN believe that Mircea Gligor was EDEN Cronos and consider him the first creator of Econophysics and Sociophysics here in Romania, like Cython and Uranian inside the same spirit... For all of us his living friends from EDEN, Mircea Gligor means the first holistic thinker based on Physics model. As Plato had written in the Charmides Dialogue about Zalmoxis as one of the first visionary thinker in a holistic manner I consider him the first econophysicist and sociophysicist who took a holistic approach to modelling the human activities, including what a human being is thinking, writing and acting... Please allow me to say that Mircea Gligor was our holistic thinker! In today Romania, the commemoration remains or is a party among friends called POMANA (as noun) from the ancient Romanian verb POMENI (I can not translate this sense of POMANA as verb, this is somewhere between remember and reborn, celebrate and laugh, mock and love, drink for him and speak about him etc.) ... This EDEN VII and the final party are more important like knowing him for the first time to EDEN I (this could be the seventh day...), and here everyone who really meet him, comes to mention the character, passions, actions, loves, gestures of the person who died as I have done especially to remember the good thoughts and facts of our commemorated and beloved Mircea...God bless you Mircea! You are and you will remain the spirit of our EDEN workshops (Gheorghe Savoiu)

Colegul nostru Mircea Gligor a fost unul dintre acei minunați profesori care a reînviat și a menținut vie tradiția genială a școlilor de vârf din România în combinarea activității didactice cu cercetarea științifică, el apropiindu-se de subiectele de cel mai mare interes social prin utilizarea de noi instrumente matematice și fizice pentru a obține în mod frecvent rezultate des citate, valoroase, originale. Odihnească-se în pace! (Radu Chisleag)

Our colleague Mircea Gligor was one of those wonderful teachers who has revived and maintained alive the brilliant tradition of the top high schools in Romania in entangling teaching with scientific research, he approaching topics of highest social interest by using new mathematics and physics tools to get frequently quoted, valuable, original results. May he rest in peace! (Radu Chisleag)

I could ascertain, from the various experiences of my life, that there are few people whom I can become attached to quickly and unconditionally – as was the case of the late Mircea Gligor. Personally, his figure has remained in my heart for life, as a true intellectual figure, and moreover, like a true friend. And there are equally few people working in the field of the sciences called *hard sciences*, who are ready to understand the representatives of the so-called humanistic field as thoroughly as Mircea did. He was a generous, fond man, whose interests were not limited to just ideas and the fruits of the garden of spirit. He was deeply passionate about what he did – and he did it very well, too. A good communicator, and consequently a very good teacher, but not exactly a keen conversationalist, he was also an excellent companion and debater, a rare wit. What he actually did was harmonize science and communication, humanizing the former and instilling substantial consistency into the latter. (Constantin Manea)

Discreet and a great family man, Mircea Gligor was a decent, soft-spoken, equanimous Transylvanian adopted by what Moldavia has best and profoundest. Therefore, his soul and culture were impregnated by the *spiritus loci* of arguably the deepest Romanian provinces.

By his way of working in the extended domain of science – and also by his very way of being, by the manner he used in questioning various exciting issues of interdisciplinary and multi-disciplinary research, our late friend and collaborator helped to undermine the would-be wall, or rather that myth, which apparently separates the world of sciences and the area of the humanities.

The most beautiful, convincingly true tribute that we can pay him is to continue, with the same sense of responsibility, the initiative we started together, a modest, but authentic and genuinely cultural approach to the challenges of today's world. (Constantin Manea)

„Atunci când majoritatea se simte bine, când are sentimentul că i se oferă ceea ce își dorește, câțiva se retrag, stabilindu-și propriul orizont de așteptare, propriul cerc în care își refac lumea interioară, departe de agitația și normele impuse de exterior.” - Principiul Vieții trăite. (Mircea Gligor)

Prin flexiunea și fluența gândirii proprii, a demonstrat ca fizica este un poem al viziunii divine asupra universului. Intuia felul în care te poți adresa ,vorbea despre limbajul universal al fizicii și despre dimensiunea ei reală în spațiul mental intelectual al fiecăruia. Mircea Gligor? O prezență discretă, o fire deschisă, atent la ce e în jur, nici măcar nu a crezut vreodată ca este primul econofizician din România, iar premiul Academiei Române nu este pe măsura valorii lui. (Ion Iorga Simăn)

"When the majority feel good, when they feel they are given what they want, some retire and establish their own expectation horizon, their own circle where they rebuild their inner world, far from the bustle and rules imposed from outside." – the Principle of Life lived. (Mircea Gligor)

By the flexibility and fluency of his own thinking, he demonstrated that physics is a poem of the divine vision of the universe. He intuitively understood the way you can address it, he spoke about the universal language of physics and its real dimension in of each individual's intellectual, mental space. Mircea Gligor? A discrete presence, an open mind, a man who paid attention to what was around; he didn't even think he was the first econophysicist in Romania, and the Romanian Academy Award is not up to his value. (Ion Iorga Simăn)

MIRCEA GLIGOR IN MEMORIAM



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