

An Entropy Based Method For Resource Leveling

The methods aim to treat voters equally by ensuring legislators represent an equal number of voters by ensuring every party has the same seats-to-votes ratio (or divisor). Such methods divide the number of votes by the number of votes per seat to get the final apportionment. By doing so, the method maintains proportional representation, as a party with e.g. twice as many votes will win about twice as many seats. 02c74901a4 These quantitative comparisons between researchers are mostly done to distribute resources (such as money and academic positions). However, there is still debate in the academic world about how effectively author-level metrics accomplish this objective. 02c74901a4 Author-level metrics differ from journal-level metrics, which attempt to measure the bibliometric impact of academic journals rather than individuals, and from... 02c74901a4 Sethian was born in Washington, D.C., on May 10, 1954. He received a B.A. (1976) from Princeton and a M.A. (1978) and Ph.D (1982) from Berkeley under the direction of Alexandre Chorin. Beginning in 1983, he was a National Science Foundation postdoctoral fellow, lastly at the Courant Institute under Peter Lax. In 1985, he returned to Berkeley to join the mathematics faculty, where he is currently a full professor. Sethian was elected member of the National Academy of Engineering in 2008 as well as the National Academy of Sciences in 2013. Sethian has acted as Interim Director... 02c74901a4

Principle of maximum entropy the Gibbsian method of statistical mechanics is sound by also arguing that the entropy of statistical mechanics and the information entropy of information The principle of maximum entropy states that the probability distribution which best represents the current state of knowledge about a system is the one with largest entropy, in the context of precisely stated prior data (such as a proposition that expresses testable information) 02c74901a4

The divisor... 02c74901a4 Income distribution has always been a central concern of economic theory and economic policy. Classical economists such as Adam Smith, Thomas Malthus and David Ricardo were mainly concerned with factor income distribution, that is, the distribution of income between the main factors of... 02c74901a4

Steady-state economy In Faber, Malte [in German]; et al.). The term usually refers to the national economy of a particular country, but it is also applicable to the economic system of a city, a region, or the entire world. In effect, such an economy does not grow in the course of time. (1996). Ecological Economics: Concepts and Methods. Early in the history of economic thought, classical economist Adam Smith of the 18th century developed the concept of a stationary state of an economy: Smith believed that any national economy in the world would sooner or later settle in a final state of stationarity. "Entropy: A Unifying Concept for Ecological Economics". Cheltenham: A steady-state economy is an economy made up of a constant stock of physical wealth (capital) and a constant population size. (eds 02c74901a4

From a scientific and engineering perspective, second-law-based exergy analysis is valuable because it provides a number of benefits over energy analysis alone. These benefits include the basis for determining energy quality (or exergy content), enhancing the understanding of fundamental physical phenomena, and improving design, performance evaluation and optimization efforts... 02c74901a4 In the history of economic thought, Georgescu-Roegen was the first economist of some standing to theorise on the premise that all of earth's mineral resources will eventually be exhausted at some indeterminate future point. In his paradigmatic magnum opus, Georgescu-Roegen... 02c74901a4

Emotion recognition elements and statistical methods include sentic computing and iFeel, both of which have adopted the concept-level knowledge-based resource SenticNet. To date, the most work has been conducted on automating the recognition of facial expressions from video, spoken expressions from audio, written expressions from text, and physiology as measured by wearables. Generally, the technology works best if it uses multiple modalities in context. Use of technology to help people with emotion recognition is a relatively nascent research area. The role Emotion recognition is the process of identifying human emotion. People vary widely in their accuracy at recognizing the emotions of others 02c74901a4

Author-level metrics Many metrics have been developed that take into account varying numbers of factors (from only considering the total number of citations, to looking at their distribution across papers or journals using statistical or graph-theoretic principles). author-level metrics as a "useful yardstick with which to compare, in an unbiased way, different individuals competing for the same resource when an important Author-level metrics are citation metrics that measure the bibliometric impact of individual authors, researchers, academics, and scholars 02c74901a4

The principle has also received extensive coverage in both international and Korean media for its innovative and practical approach to distributive justice, including reports in Phys.org, Mirage News, Asia Economy, Unipress... 02c74901a4

Income inequality metrics) The Theil index is an entropy measure. As for any resource distribution and with reference Income inequality metrics or income distribution metrics are used by social scientists to measure the distribution of income and economic inequality among the participants in a particular economy, such as that of a specific country or of the world in general. While different theories may try to explain how income inequality comes about, income inequality metrics simply provide a system of measurement used to determine the dispersion of incomes. The concept of inequality is distinct from poverty and fairness. inequality. (See Generalized entropy index for the transformation 02c74901a4

Highest averages method (2012-05-01). algorithms for fair division of seats in a legislature between several groups (like political parties or states). 63 The highest averages, divisor, or divide-and-round methods are a family of apportionment rules, i. g. e. Mathematical Social Sciences. More generally, divisor methods are used to round shares of a total to a fraction with a fixed denominator (e. percentage points, which must add up to 100). "A divisor apportionment method based on the Kolm-Atkinson social welfare function and generalized entropy" 02c74901a4

Since the 1970s, the concept of a steady-state economy has been associated mainly with the work of leading ecological economist Herman Daly. As Daly's concept of a steady-state includes... 02c74901a4

James Sethian chips. He maintains the "level set methods and fast marching methods" webpage [2], which is a popular resource

for these methods, and provides a variety James Albert Sethian is a professor of mathematics at the University of California, Berkeley and the head of the Mathematics Group [1] at the United States Department of Energy's Lawrence Berkeley National Laboratory 02c74901a4

Another way of stating this: Take precisely stated prior data or testable information about a probability distribution function. Consider the set of all trial probability distributions that would encode the prior data. According to this principle, the distribution with maximal information entropy is the best choice. 02c74901a4

Exergy Exergy analysis has widespread applications in various fields, including energy engineering, environmental science, and industrial processes. the human production of one unit of an economic good by method A utilize more of a resource's exergy than by method B. It plays a crucial role in understanding and quantifying the quality of energy within a system and its potential to perform useful work. Does the human production of economic Exergy, often referred to as "available energy" or "useful work potential", is a fundamental concept in the field of thermodynamics and engineering 02c74901a4

Nicholas Georgescu-Roegen He is best known today for his 1971 magnum opus The Entropy Law and the Economic Process, in which he argued that all natural resources are irreversibly degraded when put to use in economic activity. He is best known today for his 1971 magnum opus The Entropy Law and the Economic Process, in which he argued that all Nicholas Georgescu-Roegen (born Nicolae Georgescu, 4 February 1906 – 30 October 1994) was a Romanian mathematician, statistician and economist. mathematician, statistician and economist. A progenitor and a paradigm founder in economics, Georgescu-Roegen's work was decisive for the establishing of ecological economics as an independent academic sub-discipline in economics 02c74901a4

Boltzmann Fair Division The model introduces a concept called distribution potential, integrating human factors such as contribution, need, and preference. Distributive justice Fair division Resource allocation Entropy Social justice Income inequality Boltzmann Fair Division is a probabilistic model of resource allocation inspired by the Boltzmann distribution in statistical mechanics. model's application in complex resource allocation scenarios. The model has been proposed as an alternative framework for analyzing real-world distribution problems including income redistribution, emissions trading, and public policy design. Based on this potential, resources are allocated spontaneously and probabilistically, without negotiation or strategic behavior 02c74901a4

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