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Malfatti circles

solved by the Malfatti circles. Instead, the optimal solution can always be found by a greedy algorithm that finds the largest circle within the given triangle

In geometry, the Malfatti circles are three circles inside a given triangle such that each circle is tangent to the other two and to two sides of the triangle. They are named after Gian Francesco Malfatti, who made early studies of the problem of constructing these circles in the mistaken belief that they would have the largest possible total area of any three disjoint circles within the triangle.

Malfatti's problem has been used to refer both to the problem of constructing the Malfatti circles and to the problem of finding three area-maximizing circles within a triangle.

A simple construction of the Malfatti circles was given by Steiner (1826), and many mathematicians have since studied the problem. Malfatti himself supplied a formula for the radii of the three circles, and they may also be...

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Bayesian network

1988. ISBN 978-1-55860-479-7. Neapolitan RE (1989). Probabilistic reasoning in expert systems: theory and algorithms. Wiley. ISBN 978-0-471-61840-9.

A Bayesian network (also known as a Bayes network, Bayes net, belief network, or decision network) is a probabilistic graphical model that represents a set of variables and their conditional dependencies via a directed acyclic graph (DAG). While it is one of several forms of causal notation, causal networks are special cases of Bayesian networks. Bayesian networks are ideal for taking an event that occurred and predicting the likelihood that any one of several possible known causes was the contributing factor. For example, a Bayesian network could represent the probabilistic relationships between diseases and symptoms. Given symptoms, the network can be used to compute the probabilities of the presence of various diseases.

Efficient algorithms can perform inference and learning in Bayesian...

Seismometer

in the late 1790s. Pendulum devices were developing at the same time. Neapolitan naturalist Nicola Cirillo set up a network of pendulum earthquake detectors

A seismometer is an instrument that responds to ground

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displacement and shaking such as caused by quakes, volcanic eruptions, and explosions. They are usually combined with a timing device and a recording device to form a seismograph. The output of such a device—formerly recorded on paper (see picture) or film, now recorded and processed digitally—is a seismogram. Such data is used to locate and characterize earthquakes, and to study the internal structure of Earth.

Elevator

belt-driven and used a counterweight for extra lifting ability. In 1845, Neapolitan architect Gaetano Genovese installed the "Flying chair", an elevator ahead

An elevator (American English, also in Canada) or lift (Commonwealth English except Canada) is a machine that vertically transports people or freight between levels. They are typically powered by electric motors that drive traction cables and counterweight systems such as a hoist, although some pump hydraulic fluid to raise a cylindrical piston like a jack.

Elevators are used in agriculture and manufacturing to lift materials. There are various types, like chain and bucket elevators, grain augers, and hay elevators. Modern buildings often have elevators to ensure accessibility, especially where ramps aren't feasible. High-speed elevators are common in skyscrapers. Some elevators can even move horizontally.

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Exhibit design

continually evolving field, drawing on innovative, creative, and practical solutions to the challenge of developing communicative environments that 'tell a story'

Exhibit design (or exhibition design) is the process of developing an exhibit—from a concept through to a physical, three-dimensional exhibition. It is a continually evolving field, drawing on innovative, creative, and practical solutions to the challenge of developing communicative environments that 'tell a story' in a three-dimensional space.

There are many people who collaborate to design exhibits such as directors, curators, exhibition designers, and technicians. These positions have great importance because how they design will affect how people learn. Learning is a byproduct of attention, so first the designers must capture the visitors' attention.

A good exhibition designer will consider the whole environment in which a story is being interpreted rather than just concentrating on individual...

List of people from Italy

scenes of city life Giacomo Di Chirico (1891-1964), Neapolitan painter Ciriaco De Mita (1891-1964), Neapolitan painter of landscapes and seascapes. Giovanni Fattori

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This is a list of notable individuals from Italy, distinguished by their connection to the nation through residence, legal status, historical influence, or cultural impact. They are categorized based on their specific areas of achievement and prominence.

List of Italian inventions and discoveries

known from various sources that at least 24 women practiced surgery in Neapolitan Area during Middle Ages.[citation needed] Trota left a collection of writings

Italian inventions and discoveries are objects, processes or techniques invented, innovated or discovered, partially or entirely, by Italians.

Italian people - living in the Italic peninsula or abroad - have been throughout history the source of important inventions and innovations in the fields of writing, calendar, mechanical and civil engineering, musical notation, celestial observation, perspective, warfare, long distance communication, storage and production of energy, modern medicine, polymerization and information technology.

Italians also contributed in theorizing civil law, scientific method (particularly in the fields of physics and astronomy), double-entry bookkeeping, mathematical algebra and analysis, classical and celestial mechanics. Often, things discovered for the first time...

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Racism

alpinus (Auvergnat, Turkish, etc.), and finally the *Homo mediterraneus* (Neapolitan, Andalus, etc.) He assimilated races and social classes, considering that

Racism is the belief that groups of humans possess different behavioral traits corresponding to inherited attributes and can be divided based on the superiority of one race or ethnicity over another. It may also mean prejudice, discrimination, or antagonism directed against other people because they are of a different ethnic background. Modern variants of racism are often based in social perceptions of biological differences between peoples. These views can take the form of social actions, practices or beliefs, or political systems in which different races are ranked as inherently superior or inferior to each other, based on presumed shared inheritable traits, abilities, or qualities. There have been attempts to legitimize racist beliefs through scientific means, such as scientific racism,...

Scientific racism

alpinus (Auvergnat, Turkish, etc.), and finally the *Homo mediterraneus* (Neapolitan, Andalus, etc.) Jews were dolichocephalic like the Aryans, according to

Scientific racism, sometimes termed biological racism, is

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the pseudoscientific belief that the human species is divided into biologically distinct taxa called "races", and that empirical evidence exists to support or justify racial discrimination, racial inferiority, or racial superiority. Before the mid-20th century, scientific racism was accepted throughout the scientific community, but it is no longer considered scientific. The division of humankind into biologically separate groups, along with the assignment of particular physical and mental characteristics to these groups through constructing and applying corresponding explanatory models, is referred to as racialism, racial realism, race realism, or race science by those who support these ideas. Modern scientific consensus rejects this...

Congenital adrenal hyperplasia due to 21-hydroxylase deficiency

non-salt-wasting form was thoroughly described for the first time by a Neapolitan pathologist Luigi De Crecchio. However, significant strides in understanding

Congenital adrenal hyperplasia due to 21-hydroxylase deficiency (CAH) is a genetic disorder characterized by impaired production of cortisol in the adrenal glands.

It is classified as an inherited metabolic disorder. CAH is an autosomal recessive condition since it results from inheriting two copies of the faulty CYP21A2 gene responsible for 21-hydroxylase enzyme deficiency. The most common forms of CAH are: classical form, usually

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diagnosed at birth, and nonclassical, late onset form, typically diagnosed during childhood or adolescence, although it can also be identified in adulthood when seeking medical help for fertility concerns or other related issues, such as PCOS or menstrual irregularities. Carriers for the alleles of the nonclassical forms may have no symptoms, such form of CAH is...

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