

Experiments In Topology

Hammar experiment Its negative result refuted some specific aether drag models, and confirmed special relativity. Experiments such as the Michelson–Morley experiment of 1887 (and later other experiments such as the Trouton–Noble experiment in 1903 or the The Hammar experiment was an experiment designed and conducted by Gustaf Wilhelm Hammar (1935) to test the aether drag hypothesis. relativity d3680614ae

Quantum topology Quantum topology is a branch of mathematics that connects quantum mechanics with low-dimensional topology. Dirac notation provides a viewpoint of quantum Quantum topology is a branch of mathematics that connects quantum mechanics with low-dimensional topology d3680614ae

Strictly speaking, replacing a component with one of an entirely different type is still the same topology. In some contexts, however, these can loosely be described as different topologies. For instance, interchanging inductors and capacitors... d3680614ae Topological entanglement involving linking and braiding can be intuitively related to quantum entanglement. d3680614ae

Shape of the universe For example; a multiply connected space like a 3 torus has everywhere zero curvature but is finite in extent, whereas a flat simply connected space is infinite in extent. General relativity explains how spatial curvature (local geometry) is constrained by gravity. The global topology of the universe cannot be deduced from measurements of curvature inferred from observations within the family of homogeneous general relativistic models alone, due to the existence of locally indistinguishable spaces with varying global topological characteristics. General relativity explains In physical cosmology, the shape of the universe refers to both its local and global geometry. Local geometry is defined primarily by its curvature, while the global geometry is characterised by its topology (which itself is constrained by curvature). primarily by its curvature, while the global geometry is characterised by its topology (which itself is constrained by curvature) d3680614ae

Circuit topology (electrical) Topology is not concerned with the physical layout of components in a circuit, nor with their positions The circuit topology of an electronic circuit is the form taken by the network of interconnections of the circuit components. Topology is not concerned with the physical layout of components in a circuit, nor with their positions on a circuit diagram; similarly to the mathematical concept of topology, it is only concerned with what connections exist between the components. Numerous physical layouts and circuit diagrams may all amount to the same topology. components are regarded as being the same topology. Different specific values or ratings of the components are regarded as being the same topology d3680614ae

Dirac notation provides a viewpoint of quantum mechanics which becomes amplified into a framework that can embrace the amplitudes associated with topological spaces and the related embedding of one space within another such as knots and links in three-dimensional space. This bra-ket notation of kets and bras can be generalised, becoming maps of vector spaces associated with topological spaces that allow tensor products. d3680614ae

Neuroevolution of augmenting topologies It is based on applying three key techniques: tracking genes with history markers to allow crossover among topologies, applying speciation (the evolution of species) to preserve innovations, and developing topologies incrementally from simple initial structures ("complexifying"). Traditionally, a neural network topology is chosen by a human experimenter, and effective connection weight values are learned through NeuroEvolution of Augmenting Topologies (NEAT) is a genetic algorithm (GA) for generating evolving artificial neural networks (a neuroevolution technique) developed by Kenneth Stanley and Risto Miikkulainen in 2002 while at The

University of Texas at Austin. It alters both the weighting parameters and structures of networks, attempting to find a balance between the fitness of evolved solutions and their diversity. methods, as of 2006 d3680614ae

Torus interconnect interconnect is a switch-less network topology for connecting processing nodes in a parallel computer system. In geometry, a torus is created by revolving A torus interconnect is a switch-less network topology for connecting processing nodes in a parallel computer system d3680614ae

Lain features surreal and avant-garde imagery and explores philosophical topics such as reality, identity, and communication. The series incorporates creative influences from computer history, cyberpunk, and conspiracy theories. Critics and fans have praised Lain for its originality, visuals... d3680614ae

Stone space In topology and related areas of mathematics, a Stone space, also known as a profinite space or profinite set, is a compact Hausdorff totally disconnected In topology and related areas of mathematics, a Stone space, also known as a profinite space or profinite set, is a compact Hausdorff totally disconnected space. Stone spaces are named after Marshall Harvey Stone who introduced and studied them in the 1930s in the course of his investigation of Boolean algebras, which culminated in his representation theorem for Boolean algebras d3680614ae

Evolutionary acquisition of neural topologies , the method uses a type of parametric mutation that comes from evolution strategies and evolutionary programming (now using the most advanced form of the evolution strategies CMA-ES in EANT2), in which adaptive step sizes are used for optimizing the weights of the neural networks. It is closely related to the works of Angeline et al. Similar to the work of Stanley (NEAT), the method starts with minimal structures which gain complexity along the evolution path. Like the work of Angeline et al. acquisition of neural topologies (EANT/EANT2) is an evolutionary reinforcement learning method that evolves both the topology and weights of artificial Evolutionary acquisition of neural topologies (EANT/EANT2) is an evolutionary reinforcement learning method that evolves both the topology and weights of artificial neural networks. and Stanley and Miikkulainen d3680614ae

It was named as the first experiment in a CERN "Underground Area" (UA), i.e. located underground, outside of the two main CERN... d3680614ae

UA1 experiment energy physics experiments, notably the NOMAD and T2K neutrino experiments. UA2 experiment List of Super Proton Synchrotron experiments "ua1 central detector: The UA1 experiment (an abbreviation of Underground Area 1) was a high-energy physics experiment that ran at CERN's Proton-Antiproton Collider (SppS), a modification of the one-beam Super Proton Synchrotron (SPS). The joint discovery of the W and Z bosons by this experiment and the UA2 experiment in 1983 led to the Nobel Prize for physics being awarded to Carlo Rubbia and Simon van der Meer in 1984. The data was recorded between 1981 and 1990. Peter Kalmus and John Dowell, from the UK groups working on the project, were jointly awarded the 1988 Rutherford Medal and Prize from the Institute of Physics for their outstanding roles in the discovery of the W and Z particles d3680614ae

Serial Experiments Lain Animated by Triangle Staff and featuring original character designs by Yoshitoshi Abe, the series was broadcast for 13 episodes on TV Tokyo and its affiliates from July to September 1998. Mechademia Serial Experiments Lain is a Japanese anime television series created and co-produced by Yasuyuki Ueda, written by Chiaki J. The series follows Lain Iwakura, an adolescent girl in suburban Japan, and her relation to the Wired, a global communications network similar to the internet. "Topologies of Identity in Serial Experiments Lain". Retrieved September 25, 2010. Anime News Network. Serial Experiments Lain". Konaka and directed by Ryūtarō Nakamura. (2012). Jackson, C d3680614ae

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