

Control System Design Guide George Ellis

Motion control

Precision motion control: Design and implementation, 2nd ed., London, Springer, 2008. Ellis, George, Control System Design Guide, Fourth Edition: Using

Motion control is a sub-field of automation, encompassing the systems or sub-systems involved in moving parts of machines in a controlled manner. Motion control systems are extensively used in a variety of fields for automation purposes, including precision engineering, micromanufacturing, biotechnology, and nanotechnology. The main components involved typically include a motion controller, an energy amplifier, and one or more prime movers or actuators. Motion control may be open

loop or closed loop. In open loop systems, the controller sends a command through the amplifier to the prime mover or actuator, and does not know if the desired motion was actually achieved. Typical systems include stepper motor or fan control. For tighter control with more precision, a measuring device may be added...

Ellis Island

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Ellis Island is an island in New York Harbor, within the U.S. states of New Jersey and New York. Owned by the U.S. government, Ellis Island was once the busiest immigrant inspection and processing station in the United States. From 1892 to 1954, nearly 12 million immigrants arriving at the Port of New York and New Jersey were processed there; approximately 40% of Americans may be descended from these immigrants. It has been part of the Statue of Liberty National Monument

since 1965 and is accessible to the public only by ferry. The north side of the island is a national museum of immigration, while the south side of the island, including the Ellis Island Immigrant Hospital, is open to the public through guided tours.

The name derives from Samuel Ellis, a Welshman who bought the island in 1774...

Game design

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Game design is the process of creating and shaping the mechanics, systems, rules, and gameplay of a game. Game design processes apply to board games, card games, dice games, casino games, role-playing games, sports, war games, or simulation games. In Elements of Game Design, game designer Robert Zubek defines game design by breaking it down into three elements:

Game mechanics and systems, which are the rules and objects in the game.

Gameplay, which is the interaction between the player and the mechanics and systems. In Chris Crawford on Game Design, the author summarizes gameplay as "what the player does".

Player experience, which is how users feel when they are playing the game.

In academic research, game design falls within the field of game studies (not to be confused with game theory, which...

Argument from poor design

100301.135233. PMID 12221984. S2CID 9387705. Ellis RJ (January 2010). "Biochemistry: Tackling unintelligent design". Nature. 463 (7278): 164-5. Bibcode:2010Natur

The argument from poor design, also known as the dysteleological argument, is an argument against the assumption of the existence of a creator God, based on the reasoning that any omnipotent and omnibenevolent deity or deities would not create organisms with the

perceived suboptimal designs that occur in nature.

The argument is structured as a basic *modus ponens*: if "creation" contains many defects, then design appears an implausible theory for the origin of earthly existence. Proponents most commonly use the argument in a weaker way, however: not with the aim of disproving the existence of God, but rather as a *reductio ad absurdum* of the well-known argument from design (which suggests that living things appear too well-designed to have originated by chance, and so an intelligent God or...

Star Control II

for MS-DOS. The game is a direct sequel to Star Control, and includes exoplanet-abundant star systems, hyperspace travel, extraterrestrial life, and interstellar

Star Control II: The Ur-Quan Masters is a 1992 adventure shoot 'em up video game developed by Toys for Bob (Fred Ford and Paul Reiche III) and originally published by Accolade in 1992 for MS-

DOS. The game is a direct sequel to Star Control, and includes exoplanet-abundant star systems, hyperspace travel, extraterrestrial life, and interstellar diplomacy. There are 25 alien races with which communication is possible.

Released to critical acclaim, Star Control II is widely viewed today as one of the greatest PC games ever made. It has appeared on lists of the greatest video games of all time.

The game was ported to 3DO by Crystal Dynamics in 1994 with an enhanced multimedia presentation. The source code of the 3DO port was licensed under GPL-2.0-or-later in 2002, the game content under CC-BY...

George Washington and slavery

of George Washington. Accessed 22 June 2020. Wiencek 2003, p. 272 Ellis 2004, p. 153 Wiencek 2003, pp. 272-275 Morgan 2005, pp. 421-423, 425 Ellis 2004

The history of George Washington and slavery reflects Washington's varied

attitude toward the ownership of human beings. The preeminent Founding Father of the United States and a hereditary slaveowner, Washington became uneasy with it, but kept that opinion in private communications only, and continued the practice until his death. Slavery was then a longstanding institution dating back over a century in Virginia where he lived; it was also longstanding in other American colonies and in world history. Washington's will immediately freed one of his slaves, and required his remaining 123 slaves to serve his wife and be freed no later than her death; they ultimately became free one year after his own death.

In the Colony of Virginia where Washington grew up, he became a third generation slave...

Attentional control

brain create a system of three networks: alertness (maintaining awareness), orientation (information from sensory input), and executive control (resolving

Attentional control, commonly referred

to as concentration, refers to an individual's capacity to choose what they pay attention to and what they ignore. It is also known as endogenous attention or executive attention. In lay terms, attentional control can be described as an individual's ability to concentrate. Primarily mediated by the frontal areas of the brain including the anterior cingulate cortex, attentional control and attentional shifting are thought to be closely related to other executive functions such as working memory.

George Washington

44-45; Grizzard 2002, pp. 135-137. Ellis 2004, pp. 41-42, 48. Misencik 2014, p. 176. Ferling 2009, pp. 49-54, 68. Ellis 2004, pp. 49-50. Chernow 2010, p

George Washington (February 22, 1732 [O.S. February 11, 1731] – December 14, 1799) was a Founding Father and the first president of the United States, serving from 1789 to 1797. As commander of the Continental Army, Washington led Patriot forces to victory

in the American Revolutionary War against the British Empire. He is commonly known as the Father of the Nation for his role in bringing about American independence.

Born in the Colony of Virginia, Washington became the commander of the Virginia Regiment during the French and Indian War (1754–1763). He was later elected to the Virginia House of Burgesses, and opposed the perceived oppression of the American colonists by the British Crown. When the American Revolutionary War against the British began in 1775, Washington was appointed commander...

OpenVMS

multi-user, multiprocessing and virtual memory-based operating system. It is designed to support time-sharing, batch processing, transaction processing

OpenVMS, often referred to as just VMS, is a multi-user, multiprocessing and virtual memory-based operating system. It is designed to support time-sharing, batch processing, transaction processing and workstation

applications. Customers using OpenVMS include banks and financial services, hospitals and healthcare, telecommunications operators, network information services, and industrial manufacturers. During the 1990s and 2000s, there were approximately half a million VMS systems in operation worldwide.

It was first announced by Digital Equipment Corporation (DEC) as VAX/VMS (Virtual Address eXtension/Virtual Memory System) alongside the VAX-11/780 minicomputer in 1977. OpenVMS has subsequently been ported to run on DEC Alpha systems, the Itanium-based HPE Integrity Servers, and select x86...

Glossary of rail transport terms

38. Ellis, Iain (2006). Ellis's British Railway Engineering Encyclopaedia. Lulu.com. p. 300. ISBN 978-1-84728-643-7. Ellis, Iain (2006). Ellis's British

Rail transport terms are a form of technical terminology applied to railways. Although many terms are

uniform across different nations and companies, they are by no means universal, with differences often originating from parallel development of rail transport systems in different parts of the world, and in the national origins of the engineers and managers who built the inaugural rail infrastructure. An example is the term railroad, used (but not exclusively) in North America, and railway, generally used in English-speaking countries outside North America and by the International Union of Railways. In English-speaking countries outside the United Kingdom, a mixture of US and UK terms may exist.

Various terms, both global and specific to individual countries, are listed here. The abbreviation...

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