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Computer laboratory rules

There are many laboratories within the Frederick National Laboratory for Cancer Research that have services available to the public. Our laboratories embrace basic, translational and clinical science with a focus on cancer, AIDS and infectious diseases. View some of our lab pages below. AIDS and Cancer Virus Program (ACVP) ACVP consists of five independent but highly interactive research sections led by leading researchers, whose work ranges from fundamental molecular virology through in vitro studies, to in vivo studies on non-human primate models (NHP), to international viral epidemiology. The ACVP also includes core research support groups (Core) that provide critical and often unique technical support capabilities to ACVP labs and other labs within the NSC and NIH and extramural investigators. It is believed that the protection of the HPV serology laboratory against human papillomavirus (HPV) infection after vaccination is mediated by HPV-specific antibodies. Antibody responses in HPV prophylactic vaccine studies have been evaluated using several methods. The lack of standardized assays, procedures and reagents accessible to the scientific community has precluded comparison of several studies evaluating the immunogenicity of HPV vaccines. The HPV serology laboratory at the Frederick National Laboratory was established in January 2017 to meet some of these needs and advance the standardization of HPV assays. CLIA Molecular Diagnostics Laboratory The CLIA Molecular Diagnostics Laboratory (CMDL), located at the Advanced Technology Research Facility of the Frederick National Laboratory, consists of five staff members. The laboratory has three long-term projects: gene expression of the Affymetrix DMET microarray, detection of PCR and DNA-based genetic mutations, and a technical service agreement with the molecular lymphoma/leukemia profiling project. Nanostring and CTEP. National Cryo-Electron Microscopy Facility The Frederick National Laboratory is home to the National Cryo-Electron Microscopy Facility (NCEF), a user facility to provide cancer researchers with access to the latest technologies for high-resolution imaging with the slightest delay between requesting access and data collection. Page 2 Saturday, British mathematician Alan Turing would have turned 100. It's barely understandable to think that none of the computing power around us today was around when he was born. But without Turing's work, computers as we know them today simply wouldn't exist, said Robert Kahn, co-inventor of TCP/IP protocols running the Internet in an interview. Absent Turing, the computer trajectory would have been different, or at least delayed, he said. Presentation: The 10 most powerful supercomputers on EarthSlideshow: Ultimate Man vs. Ultimate It's been around since at least 1837 -- when the English mathematician Charles Babbage formulated the idea for his analytical engine -- Turing was the first to do the difficult job of mapping the physics of how the digital universe would work. And he did it using a single (theoretical) strip of infinite tape. Turing is so fundamental to computer science that it's hard to do anything with computers that isn't somehow influenced by his work, said Eric Brown, who was a member of the IBM team that built the Jeopardy-winning Watson supercomputer. A polymath of the highest order, Turing left a list of successes that extended far beyond the realm of computer science. During World War II, he was instrumental in deciphering German encrypted messages, allowing the British to anticipate Germany's actions and eventually help win the war. Using his mathematical chops, he also developed ideas in the field of nonlinear biological theory, which paved the way for theories of chaos and complexity. And to a lesser extent he is known for his sad death, an apparent suicide after being persecuted by the British government for his homosexuality. But it could be computer science where his legacy will be the most felt. Last week, the Association of Computing Machinery held a two-day celebration of Turing, with the world's greatest luminaries -- Vint Cerf, Ken Thompson, Alan C. Key -- paying tribute to the man and his work. Turing wasn't the only one thinking about computers at the beginning of the last century. Mathematicians had been thinking about functions that could be calculated for some time. Turing drew from the work of colleagues at Princeton University during the 1930s. There, Alonzo Church was defining Lambda calculus (which later formed the basis of the Lisp programming language). And Kurt Godel worked on incompleteness theory and recursive function theory. Turing employed the work of both mathematicians to create a conceptual computing machine. His 1936 article described what would later become known as the Turing Machine, or machine as he called it. In the article, he described a theoretical operation using an infinitely long piece of tape containing a series of symbols. A machine head could read the symbols on the tape and add its own symbols. It may move to different parts of the tape, one symbol at a time. Turing's machine gave some ideas about what computation was, what it would mean to have a program, said James Hendler, a professor of computer science at the Rensselaer Polytechnic Institute and one of the instrumental researchers of the semantic Web. Other people were thinking in a similar way, but Turing really put him in a formal perspective, where he prove things about it. On its own, a Turing Machine could never be implemented. First, endless tapes are hard to find, Kahn joked. But the concept has proven itself for the ideas he introduced into the world. Based on the logic of what was in the machine, Turing showed that any computable function could be calculated, Kahn said. Today's computers, of course, use binary logic. A computer program can be thought of as an algorithm or a set of algorithms that a compiler converts into a series of 1 and 0. In essence, they work exactly like the Turing Machine, absent the tape. It is generally accepted that the concept of Turing Machine can be used to model anything a digital computer can do, explained Chrisla Pettey, who heads the Department of Computer Science at Middle Tennessee State University. Thanks to Turing, any algorithm that manipulates a finite set of symbols is considered a computational procedure, Pettey said in an email interview. On the contrary, anything that cannot be modeled in a Turing Machine could not be run on a computer, which is vital information for software design. If you know your problem is intractable and you don't have an exponential amount of time to wait for an answer, then it's best to focus on finding a way to find an acceptable alternative instead of wasting time looking for the real answer, Pettey said. It's not that computer scientists sit down to prove things with Turing Machines, or even that we use Turing Machines to solve problems, Pettey said. It's that the way Turing machines have been used to classify problems has had a profound influence on how computer scientists approach troubleshooting. At the time Turing sketched his ideas, the world had a lot of pretty sophisticated add-on machines that would allow someone to perform simple calculations. What Turing offered was the idea of a generic programmable machine. It would give him a program and do what the program specified, Kahn explained. Over the next decade, another polymath, John von Neumann, of the Princeton Institute for Advanced Study, began working on an operating computer that borrowed from Turing's idea, except that he would use random access memory instead of infinite tape to hold data and operational programs. Called MANIAC (Mathematical Analyzer, Numerator, Integrator, and Computer), it was among the first modern computers ever built and was operational in 1952. MANIAC used what is now called von Neumann architecture, the model for all computers today. Returning to Britain after his time at Princeton, Turing worked on another project to build a computer that used these concepts, called the Automatic Computing Engine (ACE), and pioneered the idea of a stored memory machine, would become a vital part of von Neumann architecture. In addition to triggering the field of computer science, his work's impact on cracking encryption may also have saved Britain from becoming a German colony. People have argued that Turing's work defining computers has been to its success in breaking the encryption generated by the German Enigma machine - work that helped end World War II. According to today's definitions, the Enigma was an analog computer. What he [and his team] built was much closer to [the operations] of a digital computer, Explained Hendler of Rensselaer. It essentially showed the power of digital computing in attacking this analog problem. This really changed the whole way the field thought about what computers could do. After defining computational operations, Turing continued to play a key role in defining artificial intelligence - or artificial intelligence that mimics human thought. In 1950, he was the author of an article that offered a way to determine whether a computer possessed human intelligence. The test involves a person who has a prolonged conversation with two hidden entities, a computer and a man pretending to be a woman. (Either way he wanted to pretend, Hendler explained.) If the person is unable to determine which part is the computer, it can be said that the machine thinks like a human being. He wanted to put man and computer science on an equal footing, Hendler said. Language is a critical skill for humans because it requires understanding and context. If a computer showed that level of understanding, I wouldn't notice the difference. The test has the advantage of drawing a fairly clear line between a man's physical and intellectual abilities, Turing wrote in the original paper. As IBM's Brown noted, Turing's legacy is still strongly felt today. In his work in mathematics, he showed that there are problems that no decision-making can answer, Hendler said. In terms of computers, this means, You could never prove for all complicated computer programs that are correct, Hendler said. You can never write a computer program where you can debug all other computer programs. But far from limiting the progress of information technology, knowledge of this inconclusiveness has paved the way for the construction of previously unimaginable technologies. It allowed engineers to create immensely useful services such as Internet search engines, despite knowing that the answers that such services had to provide would not always be complete. There are people who say that we should never build a computer system unless we can prove that it is safe. Those of us who understand Turing say, 'Well, you can't.' So you have to start showing some security approximation, which starts a very different conversation, Hendler said. And in spite of numerous attempts to beat the Test, has not yet been done, except within the most limited topics. This means that we will probably work to meet Turing parameters for years to come. You can't say, 'Siri. How are you today?' and expect it to go on from there in an interesting way, Hendler said. Joab Jackson covers enterprise software and the latest general technology news for IDG idg Servizio. Segui Joab su Twitter @Joab_Jackson. L'indirizzo e-mail di Joab è Joab_Jackson@idg.com Copyright © 2012 IDG Communications, Inc.

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