
The Memory Map

Canton Alliance Massillon Computer Users Group



Volume 44, Issue 2

February 2024

Next CAMUG Meeting, February 19, 2024 Both Zoom and In Person!

- Join us in person at Holy Cross Lutheran Church, 7707 Market Ave. in North Canton, Ohio.
- OR use the Zoom link that Dennis will email.

Program

6:15 PM: Chit Chat.

6:30 PM: "Making Comments in MS Word" by Tim Elder

7:00 PM: "YouTube Tips and Tricks" by Jan Bredon

AI Is Not a New Technology: Here's How Old It Is

How-To-Geek

By Katie Rees

February 4, 2024

<https://www.howtogeek.com/ai-is-not-a-new-technology-heres-how-old-it-is/>



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AI may seem fairly new, but the history of AI stretches back much further than you think.

Key Takeaways

- **AI has existed as an idea since ancient times, with the idea of artificial human-like beings written about by the Ancient Greeks.**
- **The first system that used AI to function was created in 1955, and AI has evolved greatly since then, with advancements in natural language processing and other technologies.**
- **Today, AI is highly significant, and its presence is expected to continue growing across industries, with AI-based chatbots and virtual assistants being popular applications.**

The use of artificial intelligence has been increasing across most industries over the past decade or so, and this technology has a lot of potential. However, is AI a fairly new development, or did its roots begin in a much earlier time? Here's how old AI really is.

When Was AI Conceptualized?

The idea of machines gaining consciousness, or at least mimicking human behavior, came about a very long time ago. In its most basic form, the idea of AI first popped up by the Ancient Greeks when the idea of humans creating artificial, human-like beings, was written about by poet Hesiod in the story of Talos.

In the following centuries, more stories, predictions, and myths of artificial human-like creations were written, such as Paracelsus' discussion of the creation of an "artificial man" in his work 'Of the Nature of Things.' It wasn't until the mid-20th century that the idea of artificial intelligence became a reality.

The Creation of AI

The first system that used artificial intelligence to function was created in 1955 by Herbert Simon, Clifford Shaw, and Allen Newell, and was named Logic Theorist. Simon, a political scientist and sociologist, along with Newell, a computer scientist, developed Logic Theorist in order to artificially mimic certain human thought processes. The program itself was written by Shaw, a computer programmer who worked for RAND at the time. As Logic Theorist was being developed in 1955, the term "artificial intelligence" hadn't even been coined yet; this was to come a year later from John McCarthy.

Logic Theorist was specifically designed to solve mathematical problems using human-attributed skills, therefore simulating a basic version of the human mind in doing so. As stated in a 2006 academic article on the topic of Logic Theorist, the

program was "perhaps the first working program that simulated some aspects of peoples' ability to solve complex problems."

How AI Has Evolved

The first AI system created and the AI systems we see today differ vastly from one another. As our understanding of technology has grown, we've been able to continuously improve AI's capabilities over time, which has given way to the impressive AI-based tools we see today. But this wasn't an easy journey.

As explained by HODS, during the 1970s and 1980s, a period known as AI Winter began (a term which was coined in the latter of the two decades). In this period, the development and improvement of AI systems plateaued due to the limitations on computing power that existed at the time. A drop in funding for AI research also contributed to this stagnation, as scientists didn't have the financial backing needed to make any significant advancements.

But as the late 80s came around, this freeze began to thaw, with AI developments beginning to ramp up again. Backpropagation, a machine learning training algorithm, stood as the catalyst for this resurgence.

Backpropagation was first introduced in 1970 by Paul Werbos. In his paper, 'Generalization of Backpropagation with Application to a Recurrent Gas Market Model', Werbos broke down how backpropagation worked and discussed some possible applications for the algorithm. In short, backpropagation allows a neural network to adjust and select the right pathways for the best output. During this process, the neural network can alter the relevancy of its connections by altering its weights and biases based on past performance, also known as a gradient descent.

In the 1980s, the implementation of backpropagation allowed researchers to efficiently train artificial neural networks (ANNs), which was a huge step forward in the AI field. Over the next few years, a few key advancements were made with AI systems, including improvements in natural language processing (NLP), a technology that is crucial to many of the AI tools we see today.

At the turn of the century, AI was about to get even more advanced. During the 2000s, many important technologies were created or vastly improved upon with the help of AI, including search algorithms, social media tailoring, and algorithmic trading in the financial industry. Among these many notable moments for AI in the 2000s was IBM Watson.

IBM Watson began as a research project in 2006, and gave way to a number of incredible outcomes. One such outcome, the Watson supercomputer, used AI to answer questions that most preexisting computers could not.

Watson was a QA (question answering) supercomputer that implemented natural language processing, machine learning, and a number of additional technologies to perform its functions, gaining mainstream notoriety in 2011 after winning first-place in a game of 'Jeopardy!'

Things didn't slow down for AI in the 2010s, with advancements in the mid-to-late period of the decade entirely changing how we can receive and analyze data. So, what happened here?

AI Today

Today, the global AI market is worth over \$2 trillion, according to a Statista study. By 2026, the market is expected to exceed \$5 trillion, and this number will likely only increase over time.

Perhaps the most notable example of AI in our world today is ChatGPT, a widely popular chatbot powered by an AI architecture known as a large language model (LLM). Throughout the late 2010s, LLMs stood at the forefront of AI advancement. An LLM is a kind of neural network that is trained using vast amounts of data and taught to process human language, identify relevancy and language connections, and provide an effective response.

The first bona fide LLM was developed by Google in 2017, and came in the form of BERT, an algorithm used to improve search results. BERT, or Bidirectional Encoder Representations from Transformers, allowed users' search inputs to be better interpreted by Google, allowing for more relevant and useful results.

BERT is still used by Google today, but is no longer the only LLM out there. As previously stated, ChatGPT currently stands as one of the most well-known LLMs, as it has a huge range of capabilities and can be used by almost anyone. Not only can ChatGPT answer factual questions, but it can also analyze and translate text, generate creative content, write code, and more.

ChatGPT does this using a Generative Pre-trained Transformer (GPT), developed by its creator company, OpenAI. Transformers are vital to LLMs, as they allow the neural network to determine the importance of each word in a given prompt in order to derive context. This, in turn, lets the LLM provide a useful response.

GPT-3.5 and GPT-4 are OpenAI's currently available versions of the technology, with the former being entirely free and the latter being behind a \$20 monthly paywall. Along with OpenAI's ChatGPT LLM, you can also use a range of other LLM-based chatbots, including Claude and Google Bard.

But AI also has its uses in a lot of other technologies, such as virtual assistants. Siri, Alexa, Google Assistant, and Cortana all use AI to better understand users' verbal

commands. Moreover, the recommendations you'll get on social media, online retailers, and similar platforms are also often powered by AI. You've likely come into contact with AI multiple times without even realizing it.

The Future of AI

The future of AI is a topic that has stirred a lot of concern, mainly due to the fact that AI's potential is essentially endless. As technology advances, AI systems can gain greater computing power, more perfected neural networks, and increased capability overall. We'll start with the more realistic future applications of AI, and then get into the more sci-fi aspects.

In recent years, AI has become the focus of car brands looking to introduce autonomous driving to customers. The most notable example of this is Tesla's work with AI for its Autopilot feature.

In a more conceptual respect, AI may one day have the potential to meet or surpass human intelligence. You've likely heard of the "singularity", which is a term referring to the point when the growth and evolution of AI becomes unstoppable. This would likely be the result of AI systems being able to evolve on their own and pass the point of human intelligence, meaning they no longer need to be trained or programmed by humans to develop. This is seen by many as the point at which humans lose control of AI technology.

Even today, AI outshines human performance in some settings. According to a study by Our World In Data, AI systems have been able to out-perform humans in a range of tasks, such as image recognition and language understanding, since the mid- to late-2010s. This goes to show that AI does, indeed, already have the potential to surpass human capabilities in certain areas.

In the next few years, we may see AI-based chatbots improve in their capabilities and accuracy, and it's likely that AI's presence will increase across almost all industries.

AI Has Undoubtedly Changed the World

Even though AI still has a long way to go before it can truly mimic the human brain, this technology has already changed the world. There's no knowing how AI will develop in the future, and the question of AI surpassing human intelligence is still up in the air. But there's no doubt that AI has already changed the online landscape, and likely the future of humanity as a whole.

CAMUG January 2024 Meeting Minutes

The meeting was held in person at Holy Cross Lutheran Church; it was also held on Zoom using a Zoom account provided by APCUG. Dennis Smith was host and presided over the 484th meeting of CAMUG on January 15, 2024, starting at 6:15 PM with general chit-chat.

Computer 101:

At about 6:30 PM Carol Joliat presented “Portable Hotspots”. She stated that by giving these presentations, she learns many new things.

- A portable hotspot is a wireless access point, usually software on a smartphone. It is used to provide an internet connection for one or more devices using a cellular connection.
- It can be used where there is no Wi-Fi connection, such as when traveling, outdoors, or camping. It can be more secure than a public Wi-Fi connection, and it can be shared with others.
- There are two ways to use a hotspot:
 - A smart phone contains software to provide a hotspot. Carol showed the steps for setting up a hotspot on both Android and iPhones.
 - A dedicated mobile device can also provide a hotspot. This device can be purchased or borrowed from a public library.
- Carol identified several things to consider when choosing a hotspot device. She also showed how the cost of connecting a hotspot device to a provider can vary.
- There are two hotspot modes: ad hoc mode and infrastructure mode. Carol explained the differences.
- As she finished her presentation, Carol asked that members give her some ideas for future presentations.

A five-minute break was called to allow members to grab snacks and purchase 50/50 raffle tickets.

Regular Meeting:



Dennis started the main meeting about 7:20. There were twelve member families present (Including one on Zoom) representing the total 22 family memberships. Since this is more than 15% of the membership, the meeting was declared valid. In addition, APCUG member Donna Armatage was visiting via Zoom from Washington State.

Cheryl Krantz won the On-Time Drawing. She was attending via Zoom and asked that her prize be used to purchase raffle tickets.

Dennis mentioned that Eric Gunn was a new director on the Board, replacing Jim Albright.

Program:

The first part of the program was Show and Tell:

- Bruce Klipec used gift cards he received to purchase a device that reads error codes in vehicles; he will use this for his Bolt. He also purchased a USB type C 256 GB drive and replaced an old watch with a new solar watch. He then talked about unknowingly using a fake QR code supposedly from Consumer Reports; he received messages from his bank about purchases that Bruce hadn't authorized and which the bank had denied.
- Jan Bredon received a mini projector, a special outdoor bulb with a programable switch, and a Bluetooth transmitter.
- Tim Elder is in the process of getting a new laptop.
- Jim Albright received gift cards and a coat.
- Dennis Smith got a Bluetooth speaker and a Roku device as prizes at the meeting last month and enjoys them.
- As a prize last month, Alice Lungociu received a cell phone stand and really likes it.

The second part of the program was a presentation "A Look at Copilot" by Dennis Smith. Like Carol, Dennis mentioned how much he learned about a new topic.

- Copilot uses artificial intelligence to attempt to answer questions that you ask it. You can do this by typing or by clicking on the microphone and talking.
- There are (or will be) multiple Copilots: GitHub Copilot, Copilot for Windows, Copilot for Microsoft 365, Copilot for Sales, and Copilot for Service.
- Copilot for Windows works with Windows 10 and Windows 11 which must be up to date.
- To use Copilot for Windows 11, click on the icon PRE (for Preview version) in the taskbar or Press Windows-C on the keyboard.
- Copilot can do many things:
 - It can generate text such as stories, poems, and jokes.
 - It can answer questions.
 - It can create code.
 - It can generate images.
 - It can open programs but can't do much yet inside the programs.
 - It can do a variety of Windows 10/11 commands such as "Mute Volume."
- Sometimes Copilot gives incorrect answers or says it doesn't know the answer.
- What's next for Copilot?
 - New PCs and laptops will have a special Copilot key.
 - For Windows Insider users, Copilot opens when Windows starts; this will be expanded to all Windows users in the future.

- Copilot is now available on IOS, iPad IOS, and Android devices.
- Dennis then demonstrated Copilot. Dennis and many present asked questions of Copilot.

50/50 Raffle:

Ross Watkins won the first prize and took the cash. Cheryl Krantz won the second prize; because she attended via Zoom, she can pick her prize when she comes to a meeting.

Q & A:

Ross Watkins asked whether anyone was using Access, the Microsoft relational database program; no one present is using it.

Adjourn:

Liz Milford moved that the meeting be adjourned, and Jim Albright seconded the motion, The meeting was adjourned at 8:55.

Respectfully submitted pending Board approval,

Liz Milford, Secretary

CAMUG Board Meeting 1/22/2024

President Dennis Smith called the CAMUG Board meeting to order about 7:00 PM on Monday, January 22, 2024, via Zoom. All seven officers were present; therefore, the meeting was declared valid.

President	Present	Dennis Smith	president@camug.com
Secretary	Present	Liz Milford	secretary@camug.com
Treasurer	Present	Tim Elder	treasurer@camug.com
Senior Director	Present	Alice Lungociu	directors@camug.com
Director	Present	Bruce Klipec	
Director	Present	Jan Bredon	
Director at Large	Present	Eric Gunn	
Web Page	Present	Dennis Smith	webmaster@camug.com
Software and Book Review	Present	Jan Bredon	
Membership	Present	Carol Joliat	membership@camug.com
Newsletter	Present	Liz Milford	newsletter@camug.com
Computer 101	Present	Carol Joliat	
Ways and Means	Present	Jan Bredon	
Others Present			

Approval of Minutes:

December Regular Meeting: The December Regular meeting minutes were printed in the January 2024 newsletter. Alice Lungociu moved to accept the December 18, 2023, Regular Meeting minutes. Bruce Klipec seconded the motion, and the minutes were approved.

January Regular Meeting: The January Regular meeting minutes had been emailed to the Board by Liz Milford. Jan Bredon moved to accept the January 15, 2024, Regular Meeting Minutes. Bruce Klipec seconded the motion, and the minutes were approved.

December Board Meeting: The December Board meeting minutes were printed in the January 2024 newsletter. Tim Elder moved to accept the December 18, 2023, Board Meeting Minutes. Alice Lungociu seconded the motion, and the minutes were approved.

Reports:

Treasurer's Report: The January Treasurer's report had been emailed to the Board by Tim Elder. Liz Milford moved to accept January 2024 Treasurer's report. Jan Bredon seconded the motion, and the report was approved.

Membership Report: Carol Joliat reported that we currently have 22 family memberships. Carol has just renewed her membership.

February meeting topic:

February 19th meeting will be held in-person and on Zoom.

6:15 PM: Chit Chat.

6:30 PM: "Making Comments in MS Word" by Tim Elder

7:00 PM: "YouTube Tips and Tricks" by Jan Bredon

Old Business:

The Board again discussed what to do with the old club laptop. It is a Dell Precision M6400 with 8 GB memory, two hard drives (320 GB and 640 GB), and a 17.2-inch screen. It is running Windows 10 and cannot run Windows 11; however, it could run Ubuntu. We will discuss this at the Regular meeting.

New Business:

The Board discussed the state of the club treasury. The club balance has steadily decreased over the years and is currently at \$464. About half of this amount is in the snack fund. Carol suggested moving some dollars from the snack fund to the regular fund. No motion was made. No decision was made.

The Board also discussed ways to increase our membership. Eric Gunn suggested reaching out to senior living places. We could hold our meeting there instead of at

the church, or we could have someone go there at meeting time, join the meeting over Zoom, and thus show residents how they could be part of our group. We are also looking at other ways to get more members. Nothing was decided.

Motion to Adjourn:

At 8:28 PM Jan moved to adjourn. Tim seconded the motion, and the meeting was adjourned.

Submitted pending Board approval,
Liz Milford

About CAMUG

Our club is open to anyone with an interest in computers and technology. A household membership is only \$20 per year, and a visitor can attend two meetings free without any obligation.

Normally, monthly meetings are held the third Monday of the month at Holy Cross Lutheran Church, 7707 Market Ave. in North Canton, Ohio, and also on Zoom. Computer 101 begins at 6:30 PM and the regular meeting begins at 7:05 PM. At every meeting, we cover topics ranging from cell phones to computers and from software to the internet and networking. Board meetings are held the fourth Monday of the month at 7:00 PM using Zoom. Members are encouraged to attend the Board meeting although only Board members can vote. Members can email Dennis Smith (denniss@camug.com) to get the Zoom link to the Board meeting.

The club mailing address is CAMUG, PO Box 80192, Canton, OH 44708. The web site is at <http://www.camug.com>. CAMUG has a Facebook page called CAMUG Users Group at <https://www.facebook.com/CAMUG-Users-Group-100732168306718>. CAMUG also has a blog at <https://camugoh.blogspot.com>.

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CAMUG is a member of the Association of Personal Computer User Groups. APCUG is a worldwide organization that helps groups devoted to the world of technology by facilitating communications between member groups and industry. It offers the Saturday Safaris and Wednesday Workshops, provides newsletter articles, and has a list of speakers for club programs. Explore the APCUG website at <https://www.apcug2.org>, and the APCUG Facebook page at <https://www.facebook.com/APCUG>.

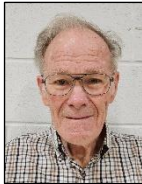


Membership

By Carol Joliat
December 2023

Renewed: Carol Joliat

Total Family Memberships: 22



CAMUG Monthly Summary

Tim W. Elder, Treasurer 1/15/24

	Cash	Checking	Total
Start Balances	\$55.00	\$452.55	\$507.55
Total Income	\$22.00	\$20.00	\$42.00
Total Expenses	\$10.00	\$75.00	\$85.00
Transfer	-\$7.00	\$7.00	\$0.00
End Balances	\$60.00	\$404.55	\$464.55

CAMUG Officers

President: Dennis Smith 330-477-5893

Secretary: Liz Milford 330-620-5178

Treasurer: Tim Elder 330-875-2323

Senior. Director: Alice Lungociu

Director: Bruce Klipec

Director: Jan Bredon: 234-564-0045

Director at Large: Eric Gunn

Membership: Carol Joliat

Asst. Membership: Alice Lungociu

Web Page:

Newsletter: Liz Milford 330-620-5178

Tim Elder 330-875-2323

Computer 101: Carol Joliat

Ways and Means: Jan Bredon

List of Members

Name	E-Mail
Albright, Jim	jima
Bredon, Jan	janb
Brugger, Bruce	bruceb
Curtis, Mitch	mithc
Dorety, Janet	janetd
Elder, Tim	time
Gunn, Eric	ericg
Joliat, Carol	carolj
Klipec, Bruce	brucek
Kramer, Cecelia	ceceliak
Krantz, Cheryl	cherylk
Lungociu, Alice	alichel
McCoy, Myra	myram
Middleton, Linda	lindam
Milford, Elizabeth	elizabethm
Parker, Cherie	cheriep
Persons, Pauline	paulinep
Ponzani, Doris	dorisp
Schaefer, Gerald	geralds
Shockling, Dale	dales
Smith, Dennis	denniss
Watkins, Ross	rossw

To email members, use the email name above followed by @camug.com

Visit our Home Page:

<http://www.camug.com>

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CAMUG Users Group

Our Blog:

<https://camugoh.blogspot.com>

**Need help
with your electronic gadgets?**



Canton Alliance Massillon Users Group
Computer Users Group

Assistance for users of all ages and skill levels

When: 3rd Monday each month

Where: Holy Cross Lutheran Church

7707 Market Ave. N

North Canton, OH

Currently, we are also meeting via Zoom

Email us for a Zoom invitation!

Time **6:15 PM:** Chit-Chat

6:30 PM: Computer 101

7:00 PM: Five-minute break

7:05 PM Meeting

Ongoing topics include:

Computers Tablets Digital Photography

Smart Phones eBooks Toys & Gadgets

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