The College of New Jersey, Ewing NJ Hosts The
48th ANNUAL ORIGINAL PERSONAL COMPUTER FESTIVAL

https://TCF-NJ.org/

The 2024 Trenton Computer Festival™

TCF™'24

The First and Longest-Running Computer Festival in the World!
Saturday March 16, 2024 | 9:00 am - 5:00 pm ET | Saturday March 16, 2024

Theme: Putting Generative AI to Work
Promises & Problems

Keynote Speaker :
Michael Littman, 3:40 pm ET
Prof. of Computer Science, Brown University
Author: *Code to Joy: Why Everyone Should Learn a Little Programming*
Talk: "Conveying Tasks to Computers: How Machine Learning Can Help"

Featured Speakers :

(12:25 pm)
Joti Balani,
CEO of Freshriver.ai
"Generative AI: The Evolution of Human-Machine Relationships"

(1:30 pm)
Sarah Nagy,
CEO of Seek AI
"Unlocking ROI on Data"

(10:15 am)
Alianna J. Maren,
Founder and Chief Scientist, Themesis Inc
"How to Build an Artificial General Intelligence (AGI) in Your Spare Time"

50+ Talks, Workshops, Tutorials, Demos, and Vendor Faire!
Robotics | Drones | Gaming | Sarnoff Collection Tours | EV Car Show and EV Ride & Drive | OOP University (Python & Java)

In-Person Admission:
$15 (advance), $20 (at door)

- Children under 12 Free; Free Parking & Wi-Fi
- Free One-Way Zoom Streaming: https://tcf-nj.org/

Reminders:
- Ham Cram starts at 9:00 am
- Talks start at 10:15 am
- Vendors open 9:00 am–3:00 pm
- Sarnoff Collection: 11:30 am–2 pm
- Banquet: 6:30 pm (Fee: $45)

IEEE/ ACM IT PROFESSIONAL CONFERENCE
Friday March 15, 2024
In-Person & Streaming**
Info: https://princetonacm.acm.org/tcfpro

EV Showcase and EV Ride & Drive
Free for TCF Attendees
Sat., March 16, 2024; 10:00 am to 2:00 pm
Forcina Lot #17, TCNJ
Hosted by the NJ Electric Vehicle Association
Info: https://jerseyeva.org/

Ham Cram Session & Exam:
Saturday March 16, 2024
Get an Amateur Radio License in ONE DAY at TCF!
Cram begins at 9:00 am
Info: https://TCF-NJ.org/hamcram

** The ITPro (Friday) Conference requires separate registration.

SPRING SMASH at TCNJ
Battle of the Robots
Saturday, 16 March
Brower Student Center
Room BSC-100
10:00 am – 5:30 pm

Image - DALL-E

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TCF-NJ.ORG
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TCNJ School of Engineering and Electrical/Computer Engineering Dept.
https://electrical-computerengineering.tcnj.edu/

MAKERS DAY
NJ Makers Day Partner!

Images(4) from Adobe AI
Putting Generative AI to Work TCF2024: 03.16.24 tcf-nj.org
HamCram at TCF2024 03.16.24 tcf-nj.org
Putting Generative AI to Work: TCF2024 03.16.24 tcf-nj.org

Track/Rm	T-1/ED-115	T-2/ED-113	T-3/ED-213	T-4/ED-211	T-5/ED-208	T-6/ED-206	T-7/ED-204	T-8/ED-109	T-9/ED-112	T-10/ED-110	T-11/ED-103
Satur-day	**Generative AI**	**GenAI Music & the Arts**	**Tutorial & Tech**	**Social Media & Apps**	**History & Technology**	**Education & STEM**	**Technology & Robotics Applications**	**Tutorials & Applications**	**Apps & AI**	**OOP University**	**Amateur Radio Starts at 9:00 am**
10:15 am to 11:10 am	How to Build an Artificial General Intelligence (AGI) in Your Spare Time — A. Maren & L. Goldberg (mod.)	Session Introduction, R. Mercuri — Using GenAI in Music Composition, J. dePrisco	Workshop — Putting Generative AI to Work, J. Edwards	Correspondence Chess and the Impact of AI, M. Blanco	Introduction to Switch Mode Power Supplies (How to Save Energy), B. Wong	Generative AI and Micros, J. Jesson	EPIC AI Failures - Two Medical Case Studies, T. Arnold	Make Your Own Personal Spotify, T. Arnold	HDMI Graphics Processing Unit, M. Redlich	Introduction to Object-Oriented Programming & Design Principles, M. Redlich	Ham Cram 101 Ham Radio License Exam Preparation Cram Course
11:20 am to 12:15 pm	An Introduction to Generative Adversarial Networks (GANs), L. Pearlstein	Electronic Music and AI (Applications of AI Computer Music, and Discussion), D. Slepian	Creating Art and Literature, L. Judice	Zero-One Sunshine: Technology as a Force for Good, as a Theme in Popular Music, A. Nathans	SiriusXM Satellite Radio: A Technological Overview, C. Scarpa	Sentient to Intelligent, E. Kaplan	How to Get Started in Combat Robotics, A. Cunard	Smart Cloth for Tracking and Localization	Wireless Audio Relay, B. Burd	Getting Started with Java, M. Redlich	Ham Cram Session begins at 9:00 am and goes to about 3:00 pm, with lunch break at 12:30 pm.
12:25 pm to 1:20 pm	Generative AI: The Evolution of Human-Machine Relationships, J. Balani	Legal Issues with GenAI in Art and Music, F. Wilf, L. Sorokin, & J. Weterston, R. Mercuri (mod.)	Stock Trading Using Neural Networks and Genetic Algorithms, D. Fishbein	Internet Job$$$, D. Hsu	Advances in Vertical Takeoff and Landing Aircraft, G. Olson	History and Evolution of eBikes, T. Wrobel	Autonomous Vehicle for Nao Robot — Autonomous Race Car	Hands-on Arduino Tutorial for Beginners, K. Frolio	Krazy Keyboards, B. Burd	Introduction to Python, C. Knight	A practice exam precedes the real exam.
1:30 pm to 2:25 pm	Unlocking ROI on Data, S. Nagy	Bing Image Creator: What It Is and How to Use with Examples, L. Ward	AI User Notes, J. Giaimo	Social Media Opportunities from Intern to VP, D. Hsu	The Most Important Computer You Never Heard of, F. O'Brien	Hydrogen is the Answer (for Cars), M. Strizki	Embedded Development with C++ on Arduino, R.-PI & Similar, E. Williams	Quantum Computing for Everyone, B. Burd	AI, Co-Evolution & the Future of Our Species, L. Goldberg	Pythonic Object-Oriented Development, C. Knight	The FCC requires payment of $15 plus showing two forms of ID. You must bring your FCC Registration Number (FRN). If you do not have a FRN, go to www.tcf-nj.org/hamcram/ www.n2re.org
2:35 pm to 3:30 pm	Machine Learning for Object Classification, J. Jesson	Constructing Music AI in Composition, T. Nakra	Computer Generated Lifeforms, A. Katz	Intro to Mastodon and the Fediverse (Open Social Media Platform), B. Murphy	Electronic Environmental Detectives, J. Allen	EVs: Past, Present and Future, S. Jaracz & A. Qua	[Limited Space. Bring Your Laptop! Download the Free Arduino IDE Software from www.arduino.cc/en/software]	Extra Arduino Tutorial Time	AI Generated Images using Midjourney Bot, D. Ferguson	Special Session: Ask Me Anything, M. Redlich, C. Knight & B. Burd	License Exam given at 3:30 pm. Conducted by the David Sarnoff Radio Club.
3:40 pm to 4:35 pm	**Keynote Speaker: Michael Littman, Prof. of Computer Science, Brown University, and author of _Code to Joy: Why Everyone Should Learn a Little Programming;_ speaking on "Conveying Tasks to Computers: How Machine Learning Can Help" in Room ED-115**										Amateur Radio License Exam at 3:30 pm
6:30 pm to 8:30 pm	**TCF BANQUET - Room ED-212 - Requires Advance Reservations ($45) and Purchase of Tickets by 11 March 2024. Banquet Speaker: Michael Littman (moderator - Larry Pearlstein) Topic - "AI: Should we Be Nervous or Terrified?"**										

Vendor Faire: 9:00 am to 3:00 pm in Room ED-212 // EV Car Events: 10:00 am to 2:00 pm (Weather Permitting)

Sarnoff Technology Collection Open from 11:30 am to 2:00 pm // Spring Smash Robot Battles: 10:00 am to 5:30 pm in Room BSC-100