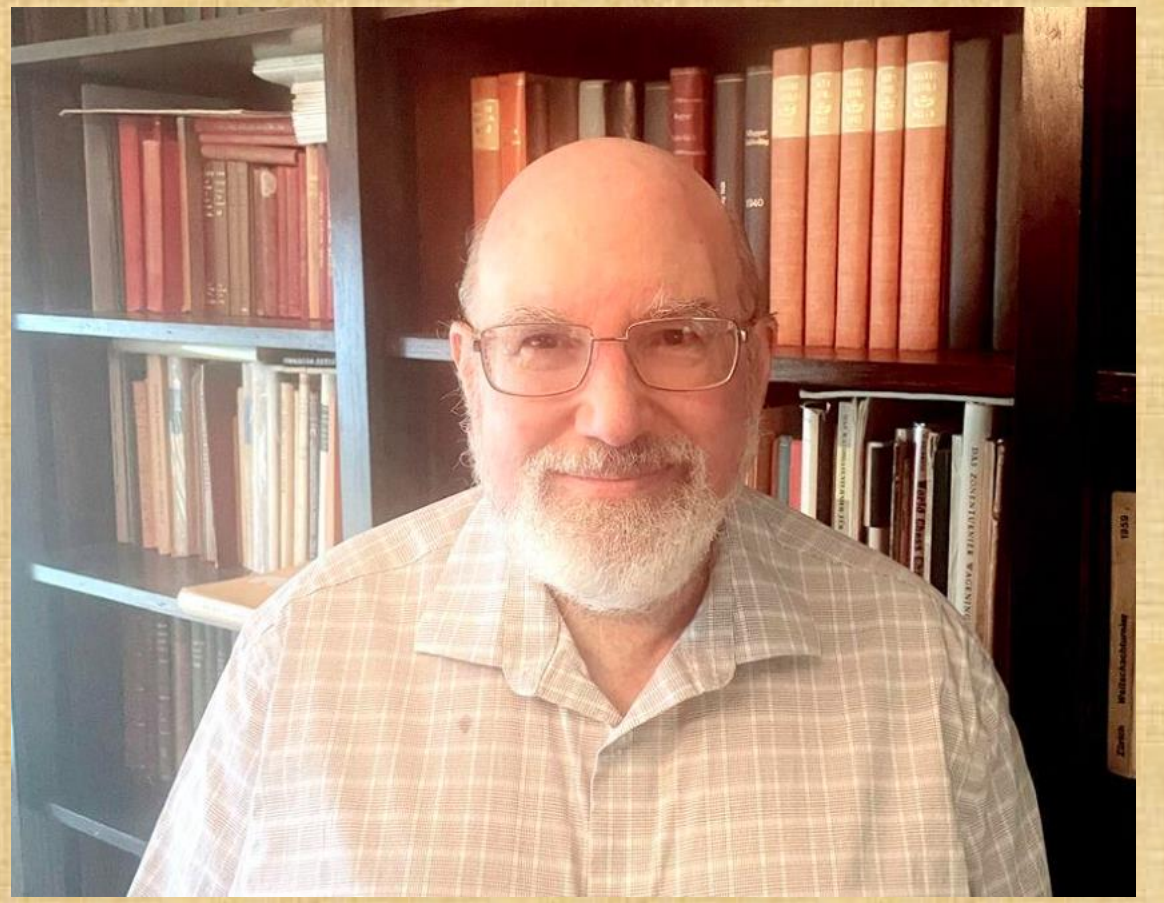
Chess and AI

The Implications for Human-Machine Collaboration



White to move and win
Hint: Computers struggle here

These are the questions I am often asked

- Isn’t correspondence chess dead?
- How do we know you didn’t cheat?
- Why not just let a computer make every move?
- Won’t the player with the most powerful machine win?
- You got lucky, right?
- By the way, what’s the best engine?

Some questions of my own:

- Why isn’t every correspondence player rated 2580?
- Why do neural net engines still beat other neural net engines?
- Why are some correspondence players still winning?
- Is Correspondence Chess the canary in the coal mine?

Can Stocks Picked by Artificial Intelligence Beat the Market? 3 Stocks to Watch

An artificial intelligence stock-picking platform identifying high-potential equities has been sharp in the past. Here are three of its top stocks to watch over the next few months.

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Would you let a robot lawyer defend you?

Gazette

David Wagle · Follow
Managing Consultant. · 3y

Related **Will humans ever beat chess engines?**

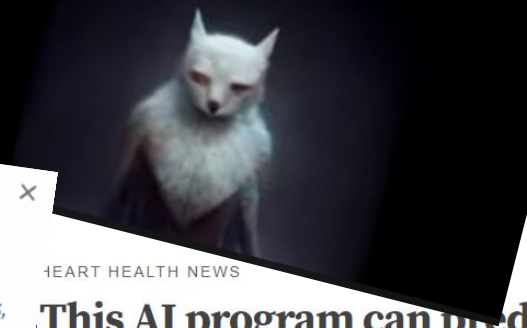
Take away their opening books and their endgame tabl
set the engines to only "think" during their own tu
computer engines remain beatable by the hig

from leading play
nowadays, though
anybody ever g

» Computer
gods.

hey now play chess like

End of An Artist's Career? A.I. Creates Art for You! - Complete Guide



HEART HEALTH NEWS

This AI program can predict heart attack, stroke risk within decade using single chest X-ray

low-end laptops,
g blitz and most
ific anti-

HEALTH

AI revolution in medicine

On the Road to Full Autonomy: Self-Driving Cars Will Rely on AI and Innovative Memory

Autonomous cars are evolving from futuristic dream to modern reality, and as the techn
matures, personal and public transportation will be forever transformed. Eventually, driv
cars will take human motorists out of the equation entirely, banishing dangerous drowsy
impaired, and distracted drivers from roadways. Nearly 40,000 people in the United Sta

Former Go champion beaten by DeepMind retires after declaring AI invincible

Lee Se-do.
Photo: Goo

/ 'Even if I become the
one, there is
ho

ARTIFICIAL INTELLIGENCE

Google Engineer Claims AI Chatbot Is Sentient: Wh That Matters

Is it possible for an artificial intelligence to be sentient?

By Leonardo De Cosmo on July 12, 2022

Comments / 0 New

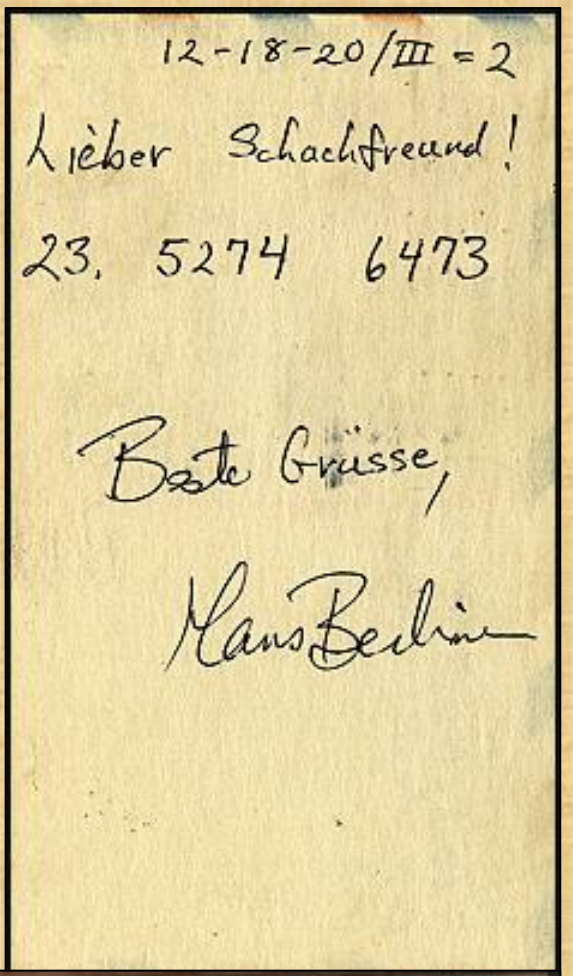
AI experts are increasingly afraid of what they're creating

AI gets smarter, more capable, and more world-transforming every day. Here's why that might not be a good thing.

By Kelsey Piper | Updated Nov 28, 2022, 6:53am EST

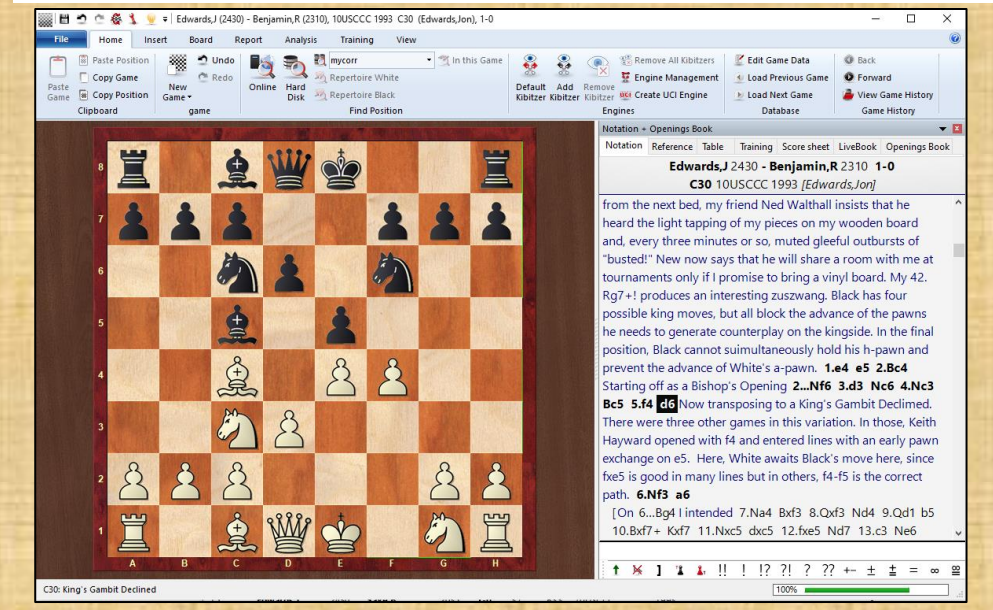
W-ch05 corr6568 1965

		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
1	Berliner,Hans Jack	*	½	1	½	½	1	½	1	1	1	1	1	1	1	1	1	1	14.0 / 16
2	Hybl,Jaroslav	½	*	½	1	0	1	1	0	½	½	1	½	1	1	1	1	½	11.0 / 16
3	De Carbonnel,Heinz	0	½	*	1	½	½	½	½	½	1	½	1	1	1	1	½	½	10.5 / 16
4	Husak,Karel	½	0	0	*	0	0	1	1	1	½	½	1	1	1	1	1	1	10.5 / 16
5	Zagorovsky,Vladimir Pavlovich	½	1	½	1	*	½	½	1	½	½	1	½	½	0	½	½	1	10.0 / 16
6	Abramson,Moisei	0	0	½	1	½	*	1	1	½	½	½	1	½	½	1	½	½	9.5 / 16
7	Endzelins,Lucius	½	0	½	0	½	0	*	½	1	1	0	½	½	1	1	1	1	9.0 / 16
8	Nielsen,Jens Hartung	0	1	½	0	0	0	½	*	½	½	1	½	1	1	1	½	1	9.0 / 16
9	Richter,Josef	0	½	½	0	½	½	0	½	*	½	½	1	½	1	½	1	0	7.5 / 16
10	Rokhlin,Yakov Gerasimovic	0	½	0	½	½	½	0	½	½	*	½	½	1	½	0	1	1	7.5 / 16
11	Altshuler,Roman Zinovievich	0	0	½	½	0	½	1	0	½	½	*	0	1	1	0	1	1	7.5 / 16
12	Stern,Werner	0	½	0	0	½	0	½	½	0	½	1	*	0	½	1	1	1	7.0 / 16
13	Estrin,Yakov Borisovich	0	0	0	0	½	½	½	0	½	0	0	1	*	0	1	1	1	6.0 / 16
14	Messere,Kenneth Charles	0	0	0	0	1	½	0	0	0	½	0	½	1	*	0	1	1	5.5 / 16
15	Ericson,Ernst Arne	0	0	0	0	½	0	0	0	½	1	1	0	0	1	*	0	1	5.0 / 16
16	Nyman,Sture Valentin	0	0	½	0	½	½	0	½	0	0	0	0	0	0	1	*	1	4.0 / 16
17	Borisenko,Georgy Konstantinov	0	½	½	0	0	½	0	0	1	0	0	0	0	0	0	0	*	2.5 / 16



NAmerica-ch8 corr9600 1996

			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
1	Edwards,Jonathan	2470	*	½	½	½	1	½	1	1	½	1	1	1	1	1	1	11.5 / 14
2	Thompson,Paul L		½	*	1	½	0	½	½	1	1	1	1	1	1	1	½	10.5 / 14
3	Embrey,Kevin W		½	0	*	½	1	0	½	1	½	1	1	1	1	1	1	10.0 / 14
4	Hux,Robert E		½	½	½	*	0	1	1	½	½	½	1	1	1	½	1	9.5 / 14
5	Conover,Wayne		0	1	0	1	*	½	½	½	1	½	1	1	1	1	½	9.5 / 14
6	Martinovsky,Eugene Simeon		½	½	1	0	½	*	0	½	½	1	1	1	1	1	1	9.5 / 14
7	Pedersen,N Eric		0	½	½	0	½	1	*	½	½	½	1	1	½	½	1	8.0 / 14
8	Edelstein,Michael		0	0	0	½	½	½	½	*	½	1	0	1	½	1	1	7.0 / 14
9	Deidun,Joseph Sr		½	0	½	½	0	½	½	½	*	0	½	½	1	1	½	6.5 / 14
10	Weinstock,Solomon		0	0	0	½	½	0	½	0	1	*	0	½	1	1	1	6.0 / 14
11	Bogle,William		0	0	0	0	0	0	0	1	½	1	*	½	1	1	1	6.0 / 14
12	Wright,Stephen		0	0	0	0	0	0	0	0	½	½	½	*	1	1	1	4.5 / 14
13	Nalepa,Barry K		0	0	0	0	0	0	½	½	0	0	0	0	*	1	1	3.0 / 14
14	Leskowsky,Zoltan Emerk		0	0	0	½	0	0	½	0	0	0	0	0	0	*	1	2.0 / 14
15	Hodges,Paul		0	½	0	0	½	0	0	0	½	0	0	0	0	0	*	1.5 / 14



"We love all of your movies, especially the early funny ones"

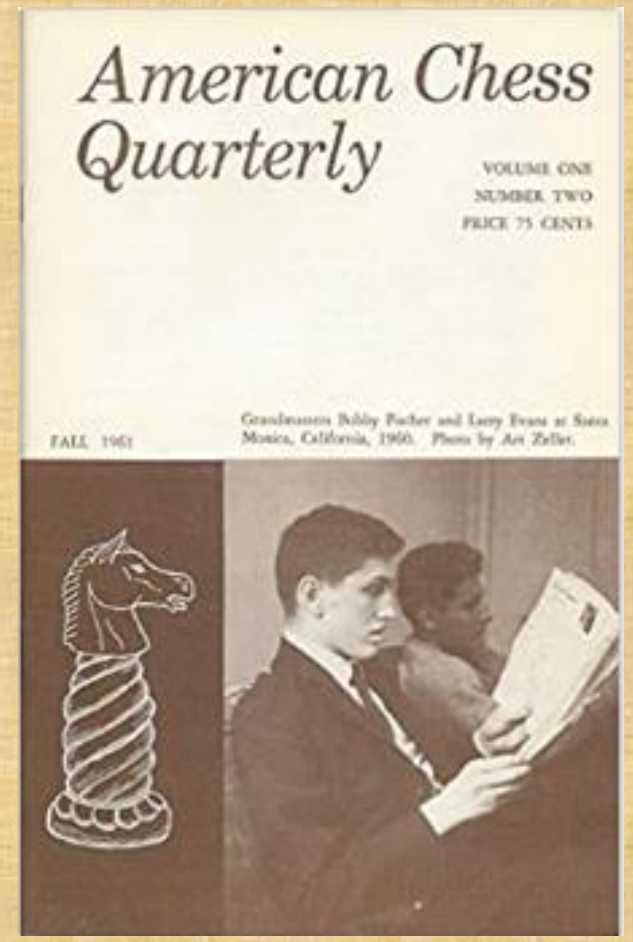
Alien to Woody Allen,
Stardust Memories,
1980

Pat Battin, Librarian

"Taking the Search of research"

Columbia University, 1986

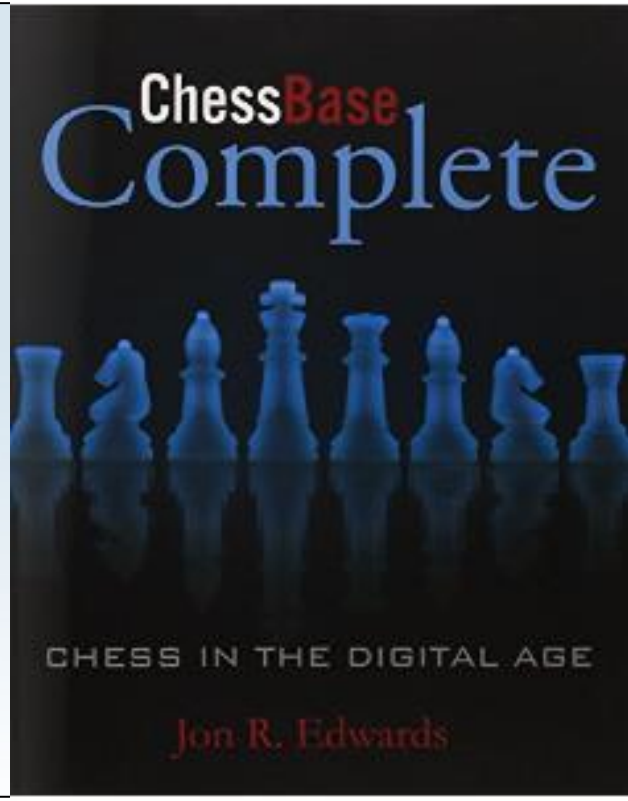
Edward Lasker on Computers and Chess, 1961



Volume 1, Number 2

"I was very much surprised to read a statement, imputed to Botvinnik, that the day will come when computers fully master chess, and FIDE will have to establish Grandmaster and Master titles for these machines. This is, of course, nonsense, and I am sure that Botvinnik was either joking or said something totally different."

Botvinnik:
On the Cybernetic Goal of the Game



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My games

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Status	Opponent	Time left	Since	Time spent	Opp. time left	Event	Last move
Opponent leave	Stephan, Jürgen	102 days 24:00	11/14/2022 4:36 PM	1 days 7:23 (1 calendar days)	141 days 16:36	Kurt Stein Memorial - Section A	27..Nf5
Opponent leave	Ostriker, Jon	105 days 24:00	11/13/2022 10:31 AM	0 days 0:00 (0 calendar days)	137 days 24:00	Kurt Stein Memorial - Section A	25.Qxb4
Waiting	Morrow, Wolff	98 days 24:00	11/20/2022 6:48 AM	1 days 13:56 (1 calendar days)	126 days 10:03	Kurt Stein Memorial - Section A	26..Rc7
Waiting	Sasikiran, Krishnan	55 days 24:00	11/19/2022 7:42 PM	2 days 1:02 (2 calendar days)	54 days 22:57	Kurt Stein Memorial - Section A	16.Ree1
Waiting	Gähler, Sebastian	123 days 24:00	11/17/2022 4:46 PM	4 days 3:58 (4 calendar days)	103 days 20:01	Kurt Stein Memorial - Section A	21..Kh7
Waiting	Johnson, Bobby	75 days 24:00	11/21/2022 1:11 AM	0 days 19:32 (0 calendar days)	36 days 4:27	Kurt Stein Memorial - Section A	15.f3
Your turn	Fleetwood, Daniel M.	72 days 18:36	11/20/2022 3:21 PM	1 days 5:23 (1 calendar days)	57 days 24:00	Kurt Stein Memorial - Section A	18..Nf4
Your turn	Perry, Dan	114 days 20:00	11/17/2022 4:45 PM	4 days 3:59 (4 calendar days)	99 days 24:00	Kurt Stein Memorial - Section A	21.Nd5+
Your turn	Cruzado Dueñas, Carlos	60 days 11:07	11/18/2022 7:52 AM	3 days 12:52 (3 calendar days)	72 days 24:00	Kurt Stein Memorial - Section A	16..Nd7
Your turn	Freeman, Michael Roy	112 days 4:19	11/21/2022 1:04 AM	0 days 19:40 (0 calendar days)	109 days 24:00	Kurt Stein Memorial - Section A	22.Rxf5
Your turn	Paško, Peter	104 days 13:21	11/20/2022 10:06 AM	1 days 10:38 (1 calendar days)	123 days 24:00	Kurt Stein Memorial - Section A	22..bxc5

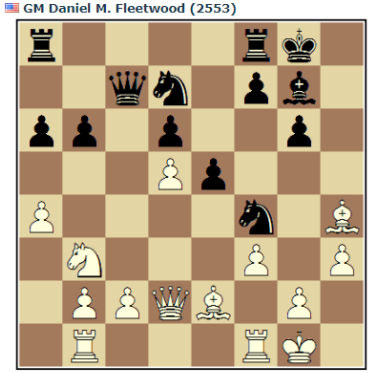
■ ETL ■ Double time applying

DEFAULT SORT | CUSTOMISE

Home > Tables and results > Kurt Stein Memorial - Section A > Game

Event | Game | Board | Email

GM Daniel M. Fleetwood (2553)



57 days 24:00

1.e4 c5 2.Nf3 d6 3.d4 cxd4 4.Nxd4 Nf6 5.Nc3 a6 6.Be3 e5 7.Nb3 Be6 8.f3 h5 9.Qd2 Nbd7 10.Nd5 Bxd5 11.exd5 g6 12.Be2 Bg7 13.O-O b6 14.a4 O-O 15.h3 Qc7 16.Rab1 h4 17.Bf2 Nh5 18.Bxh4 Nf4

Message received:

Hi, Jon,

I hope you enjoy(ed) your talk at the Milken Institute. It's always fun to do presentations like these. :)

I have officially gotten my first move in WC 33F, so the real decision processes will begin shortly. I have done canvasses on the Black openings of all games where I have the first

SIM Jon Edwards (2528)

72 days 18:34

Your move:

Offer draw | Resign

Outgoing message:

CANCEL | UNDO | SUBMIT

Home > My events

My events

Show finished events
Player

Name	Start Date	Status
Kurt Stein Memorial - Section A	6/30/2022	Running
Belarus - USA 2021 Board 1	3/13/2021	Finished
World Championship 32 Final	6/20/2020	Finished
ICCF Olympiad 21 Final Board 6	1/13/2020	Finished
2019 USA Invitational - Section A	3/31/2019	Finished
21st US Correspondence Chess Championship - Finals	9/30/2018	Finished
II Magistral AEAC - Grupo A	10/25/2017	Finished
WCCC36CT01	9/20/2016	Finished
2015 USA Invitational - Section A	3/31/2015	Finished
WCCC38SF07	6/20/2014	Finished
WCCC35SF10	6/10/2011	Finished
ICCF Olympiad 13 Final Board 3	11/25/2004	Finished
North America/Pacific Championship 4	5/15/2002	Finished
25 Years of Mate Postal - Group A	7/1/2000	Finished
World Championship 19 3/4-Final 2	4/1/1999	Finished
SSKK 60 Years	11/15/1998	Finished
13. Olympiad section 4 Board 2	5/30/1998	Finished
World Championship 22 Semifinal 01	12/15/1997	Finished
8. North American Invitational Chpship	12/15/1996	Finished

Tables and results

Select categories to display a list of tournaments.

Select a category	Select a category	Select a category
ICCF Tournaments	World Championships	World Championship Finals
National Tournaments	Olympiads	World Championship Candidates
Zonal Tournaments	World Cups	World Championship Semifinals
Archive	Norm Tournaments	World Championship Preliminaries
	Champions League	Ladies World Championships
	Friendly Matches	
	Other (unrated) events	
	Promotion Tournaments (Server)	
	Promotion Tournaments (Postal)	

Tables and results search | GO

Transmission	Short Name	Name	Start date	Category	Winner(s)
Server	WC33/final	World Championship 33 Final	11/20/2022	10	Ongoing
Server	WC32/final	World Championship 32 Final	6/20/2020	11	Edwards, Jon
Server	WC31/final	World Championship 31 Final	6/20/2019	13	Muck, Christian; Langeveld, Ron A
Server	WC30/final	World Championship 30 Final	6/20/2017	13	Kochemasov, Andrey Leonidovich
Server	WC29/final	World Championship 29 Final	6/20/2015	13	Dronov, Aleksandr Surenovich
Server	WC28/final	World Championship 28 Final	6/10/2013	14	Ljubičić, Leonardo
Server	WC27/final	World Championship 27 Final	6/10/2011	14	Dronov, Aleksandr Surenovich
Server	WC26/final	World Championship 26 Final	6/10/2010	13	Langeveld, Ron A. H.
Server	WC25/final	World Championship 25 Final	12/10/2009	14	Finocchiaro, Fabio
Server	WC24/final	World Championship 24 Final	6/10/2009	12	Šemrl, Marjan
Server	WC22/final	World Championship 22 Final	12/31/2007	13	Dronov, Aleksandr Surenovich
Server	WC23/final	World Championship 23 Final	12/31/2007	13	Stephan, Ulrich
Email	WC21/final	World Championship 21 Final	8/1/2005	14	Oosterom, Joop J. van
Postal	WC20/final	World Championship 20 Final	10/25/2004	13	Lehikoinen, Pertti
Email	WC19/final	World Championship 19 Final	4/20/2004	15	Léotard, Christophe

WC32/final, World Championship 32 Final

TD Pheby, Ian M. (IA)

Category 11						1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	GM	SIM	Score	Wins	SB	RG	Place
1	510692	SIM	Edwards, Jon	2525		½	½	½	½	½	½	½	½	½	½	½	1	½	½	½	½	1	9½		9	2	68.25	0	1
2	180109	GM	Lecroq, Michel	2568	½		½	½	½	½	½	½	½	½	½	½	½	½	½	1	½	1	9½		9	2	68	0	2
3	141625	SIM	Osipov, Sergey Adolfovich	2499	½	½		½	½	½	½	½	½	½	½	½	½	½	½	1	½	1	9½		9	2	68	0	2
4	390086	GM	Neto, Horácio	2567	½	½	½		½	½	½	½	½	½	½	½	½	½	½	½	1	1	9½		9	2	68	0	2
5	81224	SIM	Zajontz, Rainer	2500	½	½	½	½		½	½	½	½	½	½	½	½	½	½	½	½	1	9½		8.5	1	64.5	0	5
6	490165	GM	Akdag, Murat	2574	½	½	½	½	½		½	½	½	½	½	½	½	½	½	½	½	1	9½		8.5	1	64.5	0	5
7	300204	GM	Jónsson, Daði Örn	2559	½	½	½	½	½	½		½	½	½	½	½	½	½	½	½	½	1	9½		8.5	1	64.5	0	5
8	19094	SIM	Mendl, Manuel	2537	½	½	½	½	½	½	½		½	½	½	½	½	½	½	½	½	1	9½		8.5	1	64.5	0	5
9	89356	IM	Ulbig, Stefan	2416	½	½	½	½	½	½	½	½		½	½	½	½	½	½	½	½	1	9½	8	8.5	1	64.5	0	5
10	750087	SIM	Blitsko, Boris Mikhailovich	2509	½	½	½	½	½	½	½	½	½		½	½	½	½	½	½	½	1	9½		8.5	1	64.5	0	5
11	141530	SIM	Nekhaev, Andrey Ivanovich	2455	½	½	½	½	½	½	½	½	½	½		½	½	½	½	½	½	1	9½		8.5	1	64.5	0	5
12	130766	SIM	Michálek, Miroslav	2480	0	½	½	½	½	½	½	½	½	½	½		½	½	½	½	½	1	9½		8	1	60.25	0	12
13	81204	GM	Moll, Reinhard	2554	½	½	½	½	½	½	½	½	½	½	½	½		½	½	½	½	½	9½		8	0	64	0	13
14	141537	GM	Kochemasov, Andrey Leonidovich	2554	½	½	½	½	½	½	½	½	½	½	½	½	½		½	½	½	½	9½		8	0	64	0	13
15	82299	SIM	Schwetlick, Thomas	2470	½	0	0	½	½	½	½	½	½	½	½	½	½	½		½	1	9½		7.5	1	56	0	15
16	390491	GM	Pessoa, Francisco Azevedo	2524	½	½	½	0	½	½	½	½	½	½	½	½	½	½	½		½	9½		7.5	0	59.75	0	16
17	84833	SIM	Bock, Steffen	2562	0	0	0	0	0	0	0	0	0	0	0	0	½	½	0	½		9½		1.5	0	11.75	0	17

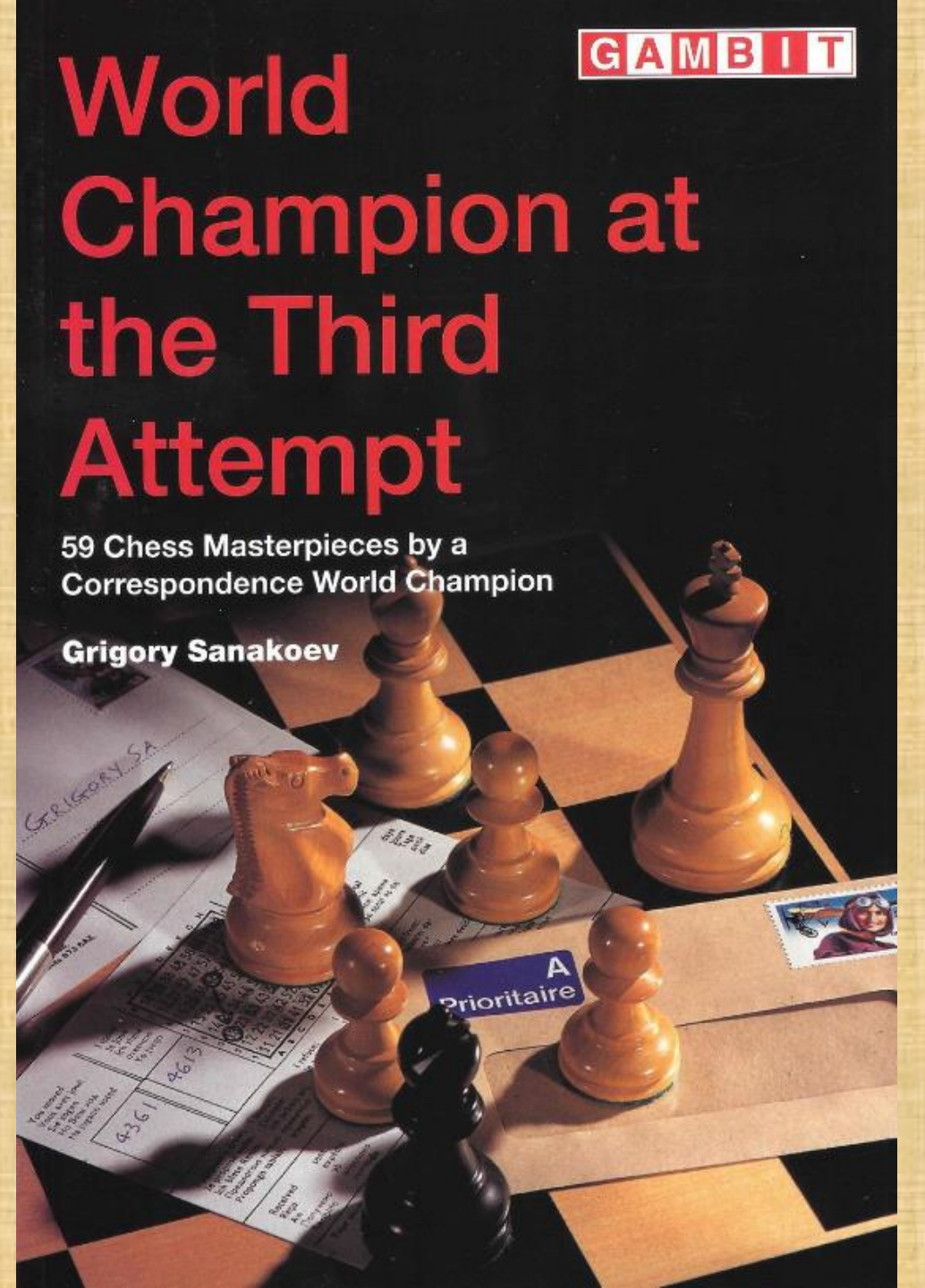
My Computer(s)

Device specifications

Device name	DESKTOP-D64V8B6
Processor	AMD Ryzen Threadripper 3970X 32-Core Processor 3.70 GHz
Installed RAM	64.0 GB (63.9 GB usable)
Device ID	B2309BFD-E95E-4317-883C-4BBFCA97FE53
Product ID	00330-71463-42315-AAOEM
System type	64-bit operating system, x64-based processor
Pen and touch	No pen or touch input is available for this display

Title	Games
Mega Database 2022	9210514
Mega Database 2021	8787223
Mega Database 2019	7625216
TWIC	2804308
Correspondence Database 2022	2058858
Correspondence Database 2020	1626801
ICCF Archive Complete	910350
ICCF Complete	785647
Ruy Lopez	251205
Paramount 2015	122916
Endgame studies	76132
New in Chess archive	59340
Opening Encyclopaedia 2021	39206
Opening Encyclopaedia GD 2019	38050
NiC Magazine archive	34556
My PGN Downloads	39675
Chess Publishing	29218

Available databases



Dan Fleetwood
Yesterday at 10:36 AM ·

Today I have received the first two moves in the 33rd International Correspondence Chess Federation (ICCF) World Championship. I am ranked 4th out of 17 participants. This will be my second attempt for the world title - hoping to improve on my 8th place finish in the 18th championship. It's a totally different experience these days, but no less challenging. Here we go! 🙂

tturgut@aol.com <tturgut@aol.com>
11/18/2022 10:45 AM

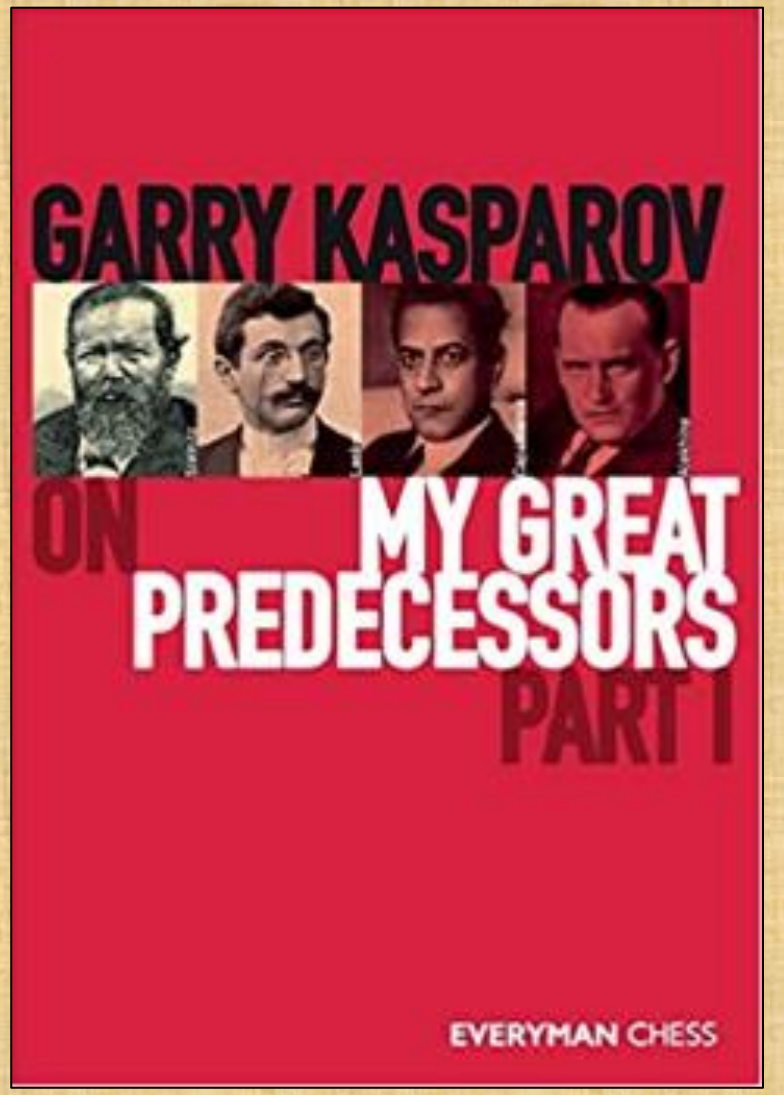
To: jedwards.chess@gmail.com

Hi John, thanks!

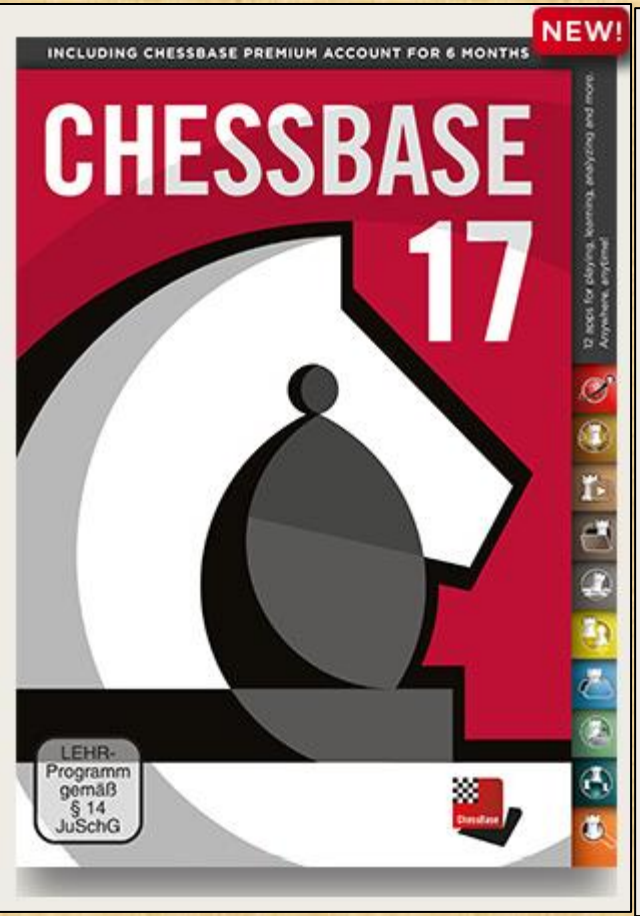
First of all congratulations!

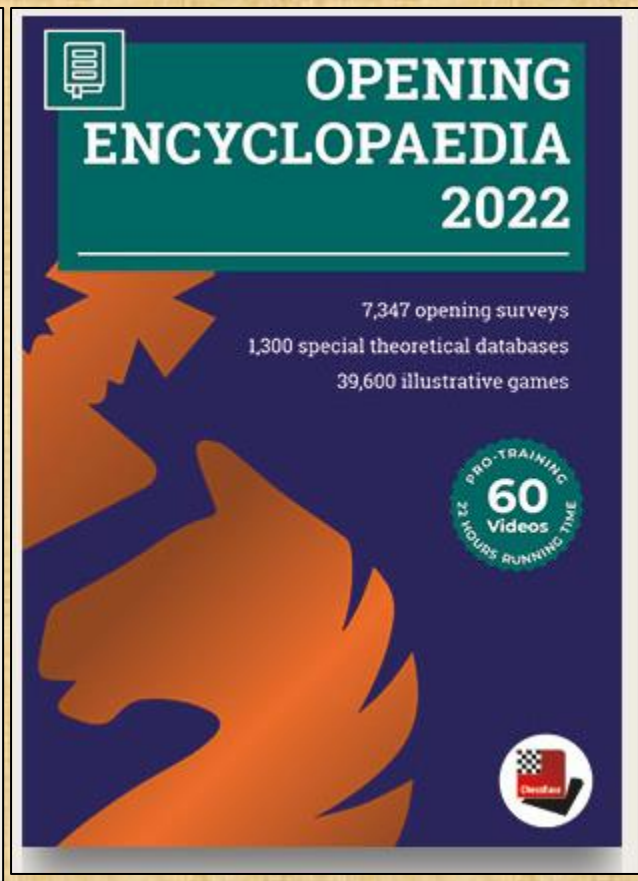
I initially thought you were very lucky, but you did everything right, and luck is always important in life, so great result!

I am frustrated with the draws. this will be my 3rd attempt for WCFinal.

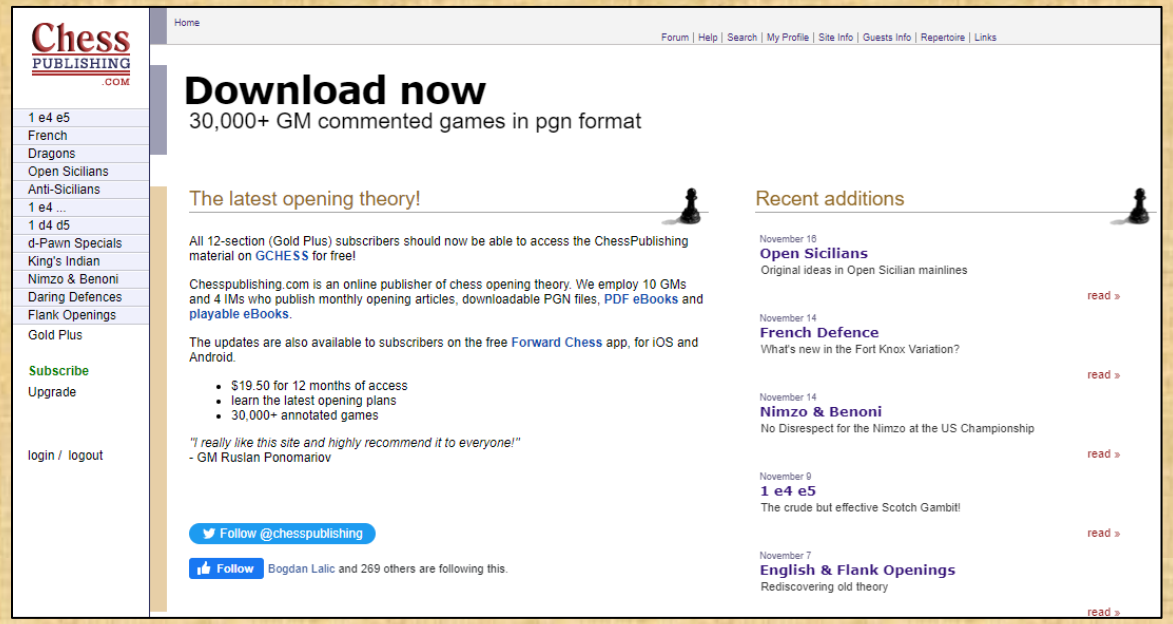

GARRY KASPAROV
ON
MY GREAT
PREDECESSORS
PART I
EVERYMAN CHESS

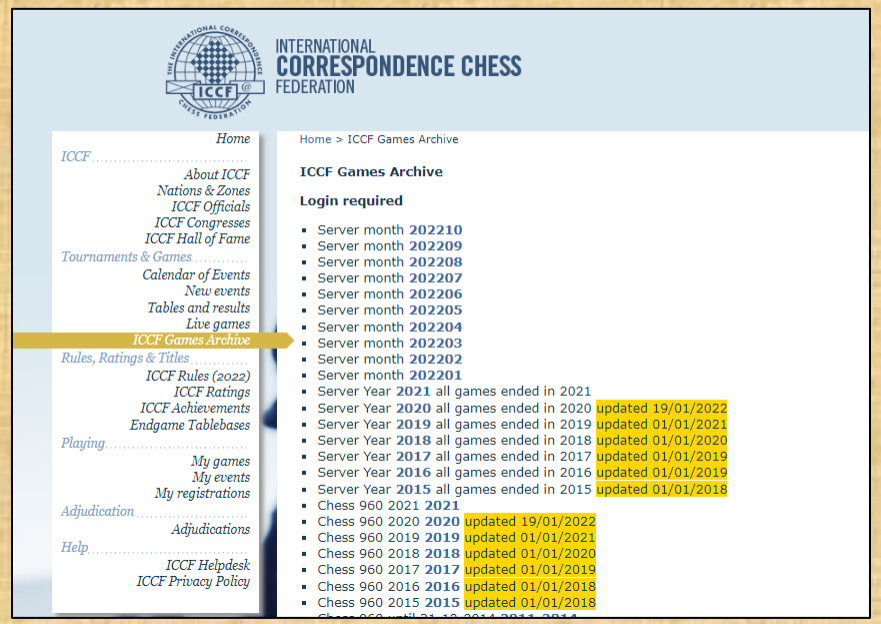
Databases and Data





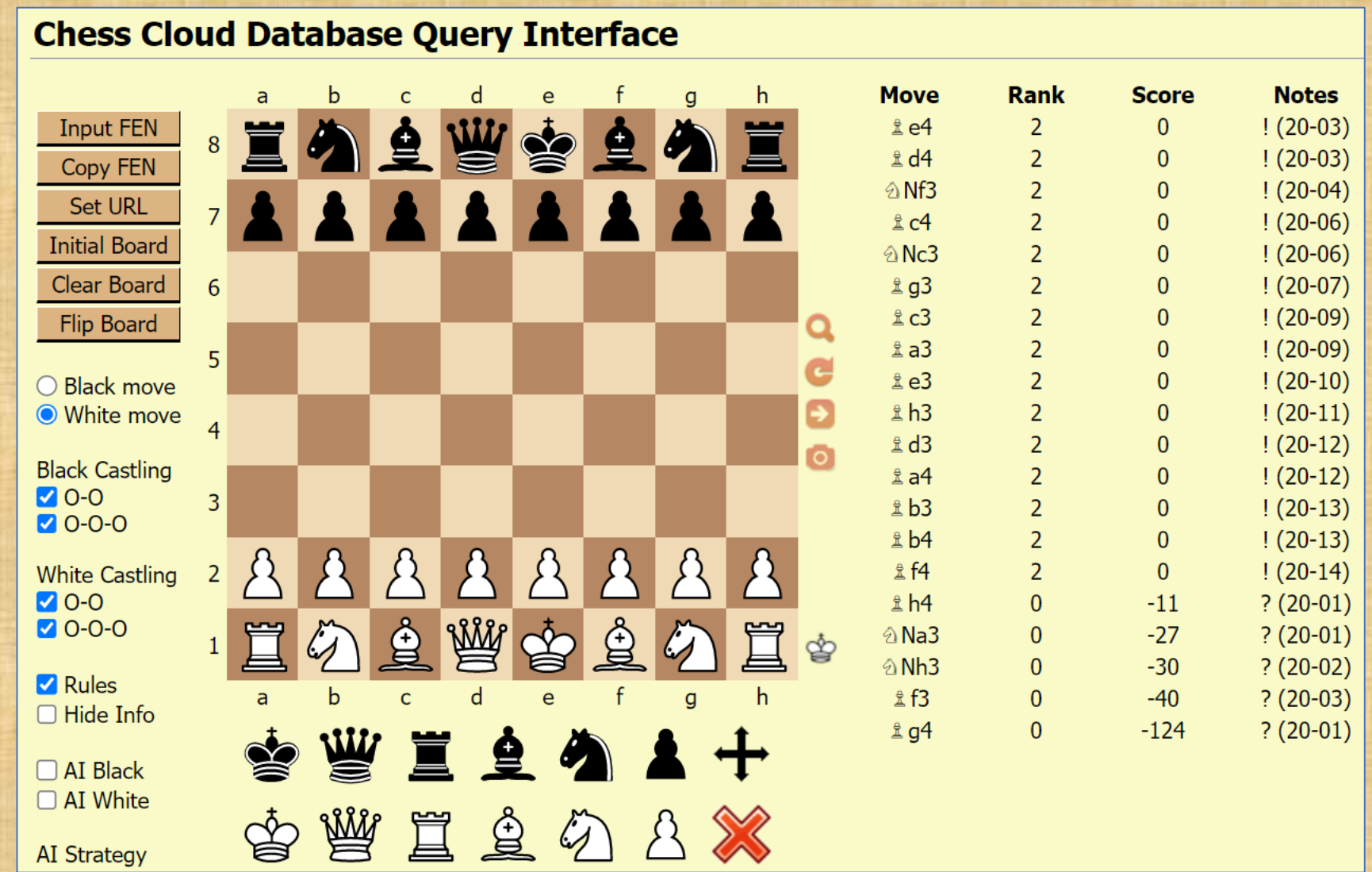
Other Large Databases





The largest database

Chess Cloud Database Query Interface



Move	Rank	Score	Notes
e4	2	0	! (20-03)
d4	2	0	! (20-03)
Nf3	2	0	! (20-04)
c4	2	0	! (20-06)
Nc3	2	0	! (20-06)
g3	2	0	! (20-07)
c3	2	0	! (20-09)
a3	2	0	! (20-09)
e3	2	0	! (20-10)
h3	2	0	! (20-11)
d3	2	0	! (20-12)
a4	2	0	! (20-12)
b3	2	0	! (20-13)
b4	2	0	! (20-13)
f4	2	0	! (20-14)
h4	0	-11	? (20-01)
Na3	0	-27	? (20-01)
Nh3	0	-30	? (20-02)
f3	0	-40	? (20-03)
g4	0	-124	? (20-01)

Chinese Neural Net Database: https://www.chessdb.cn/queryc_en/

Tools for the Opening

Let's Check

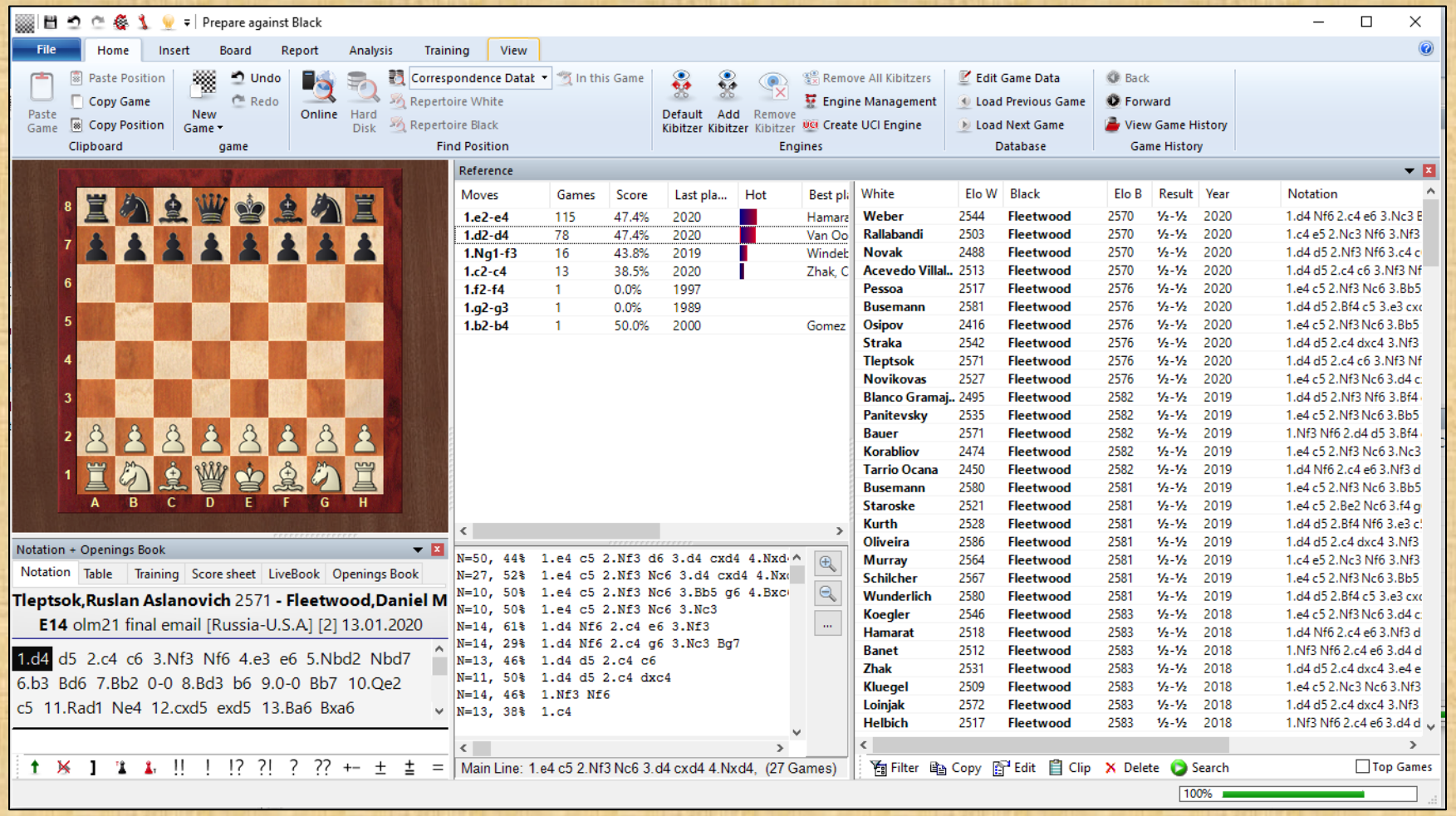
LiveBook

Tools for the Opening

Let's Check

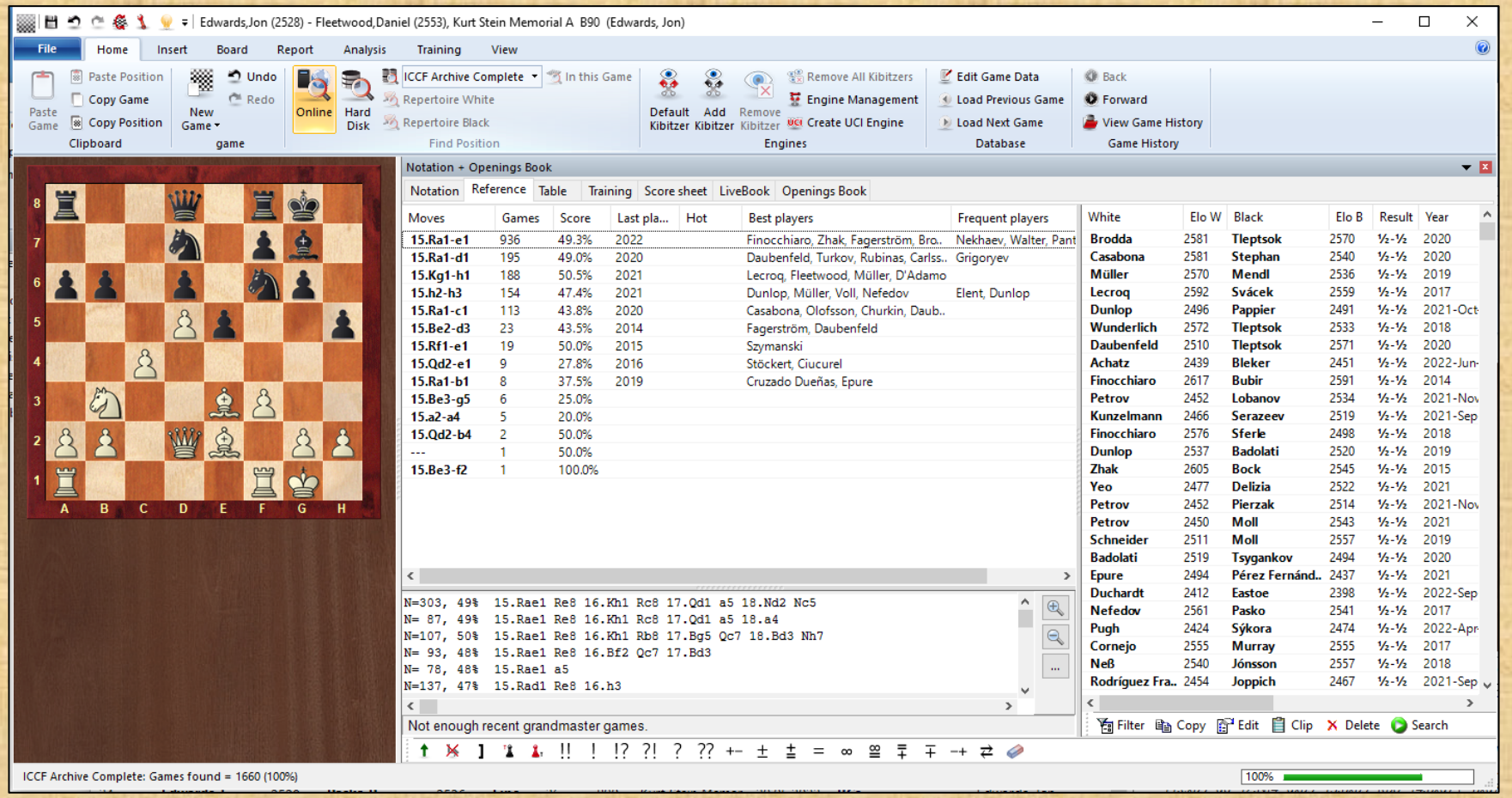
LiveBook

Preparation



Preparing for an Opponent

Preparation



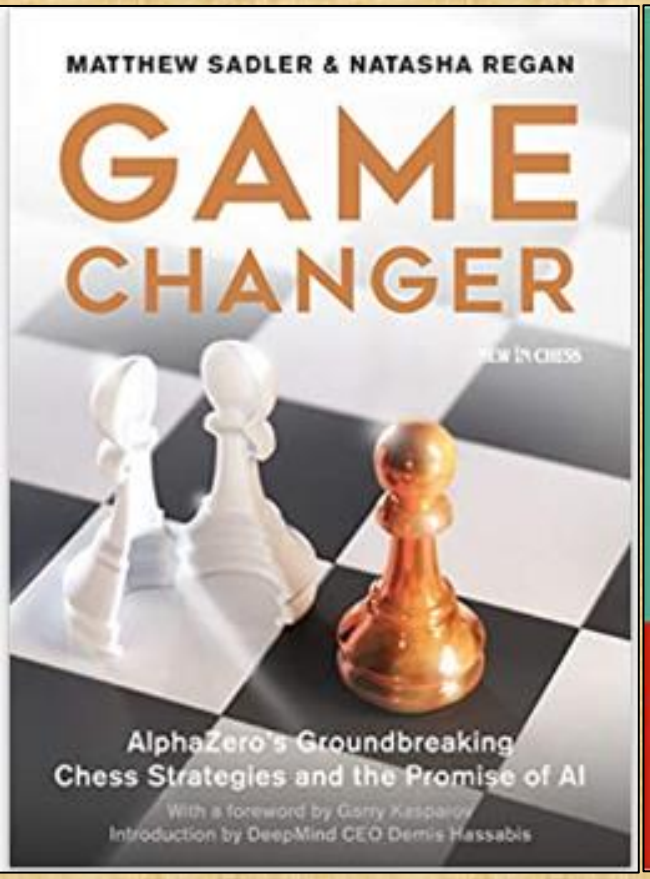
Opening Reference

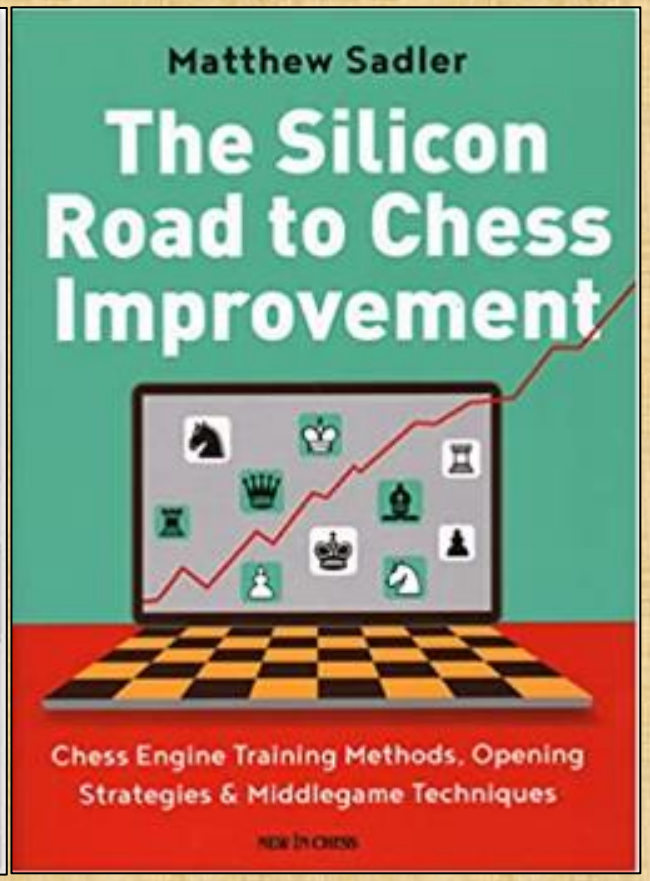
Tools for Middlegames and Endgames

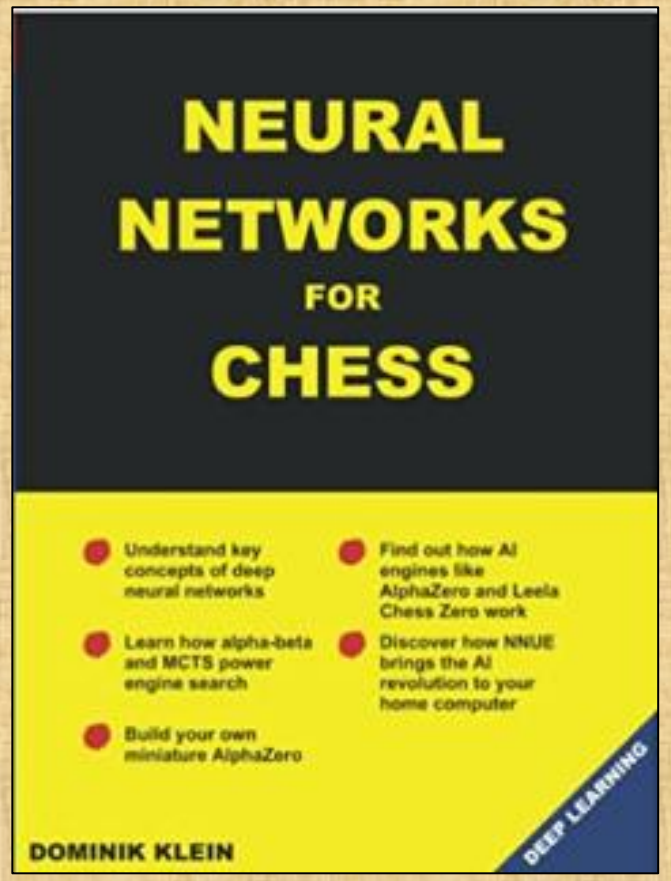
Search for Structures

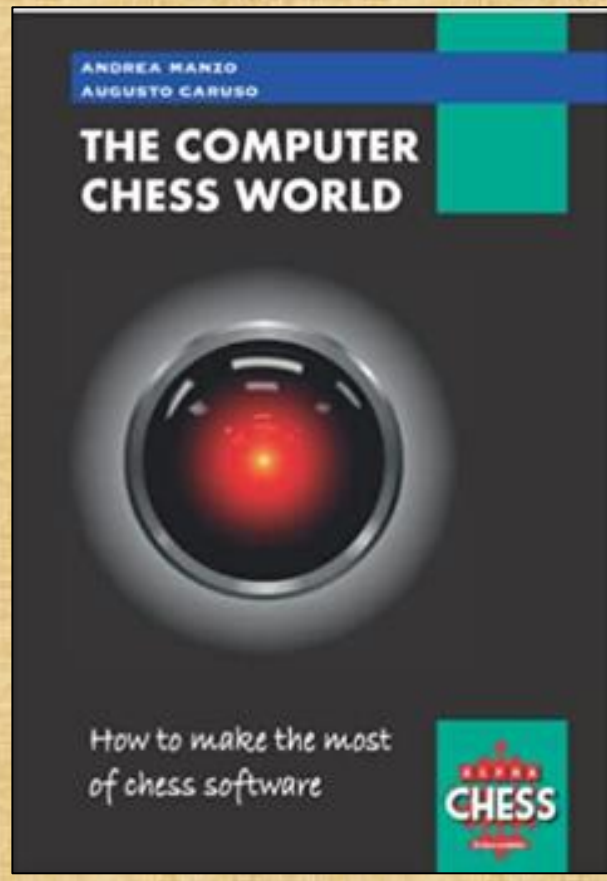
TableBase

Required Reading for Correspondence Masters
No more opening books!

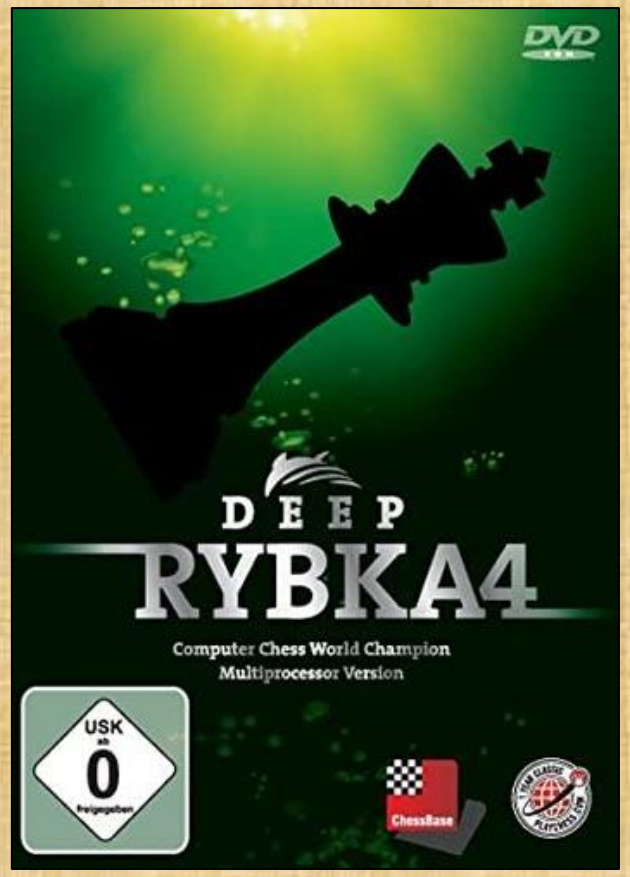


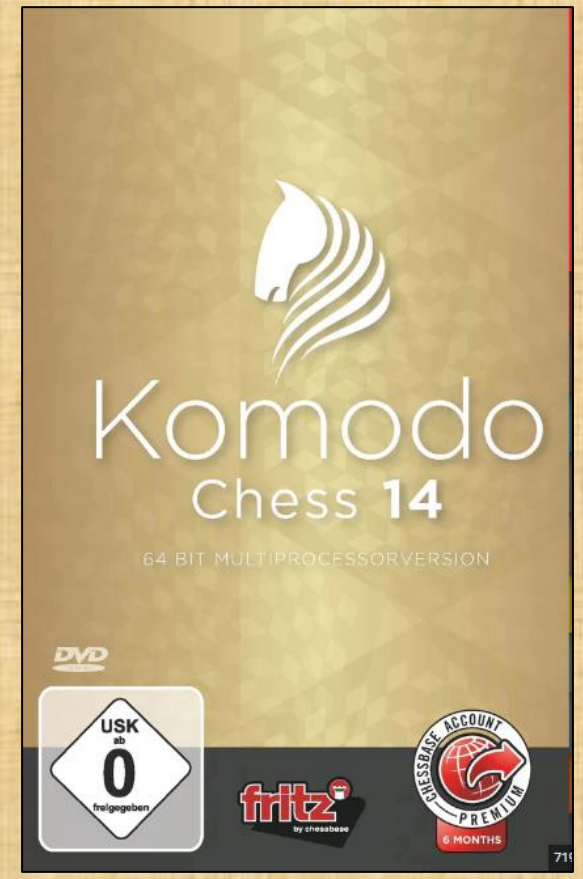


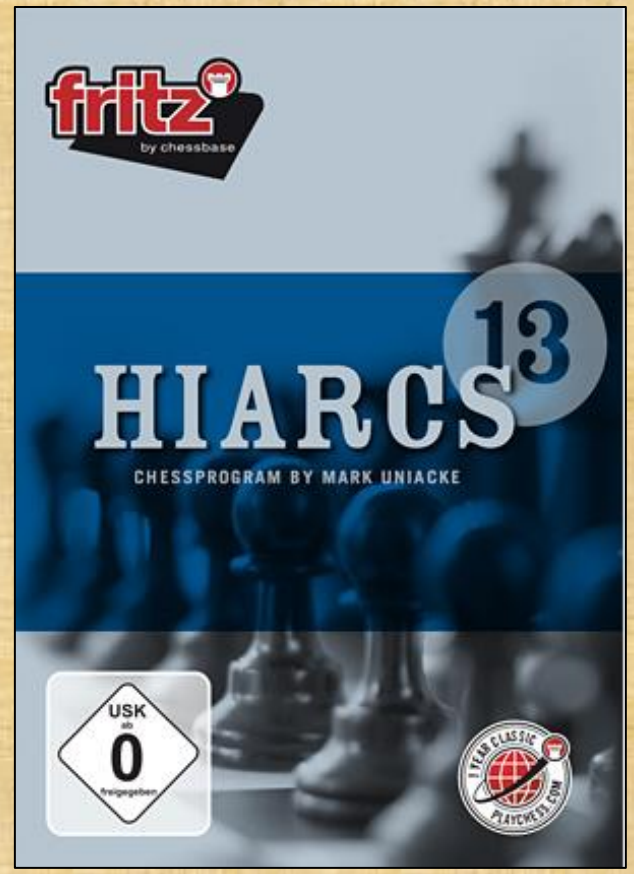




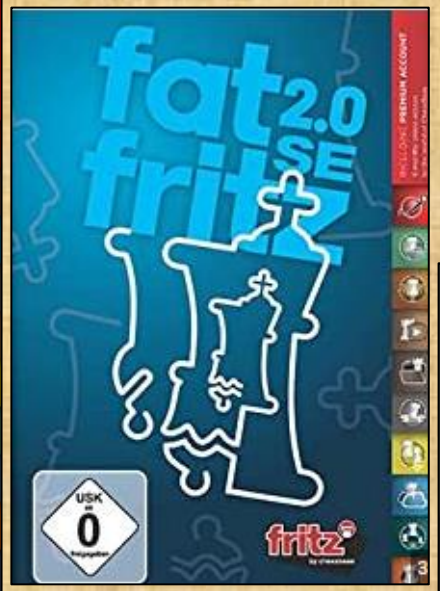
Conventional Engines







The Emergence of Neural Net Engines

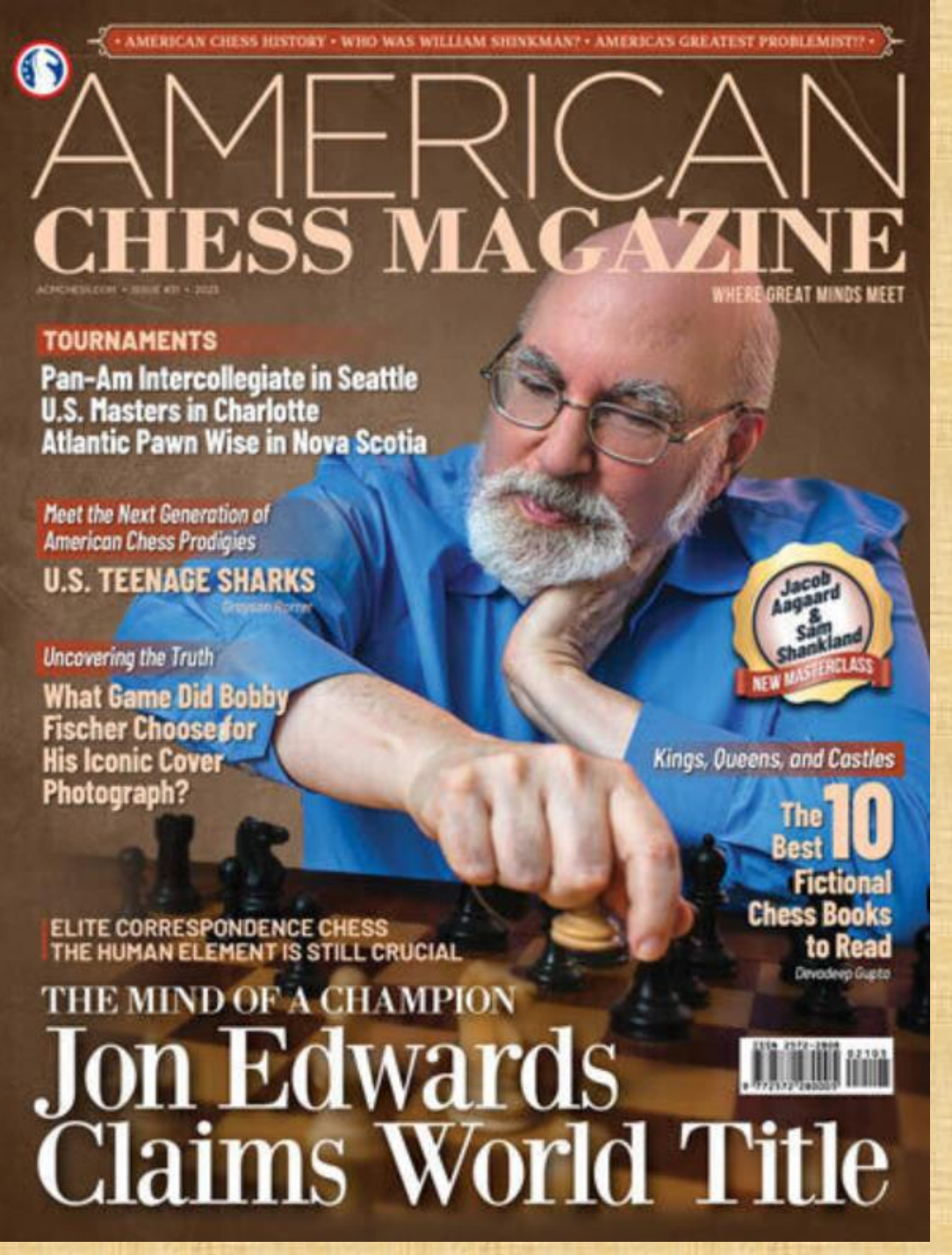


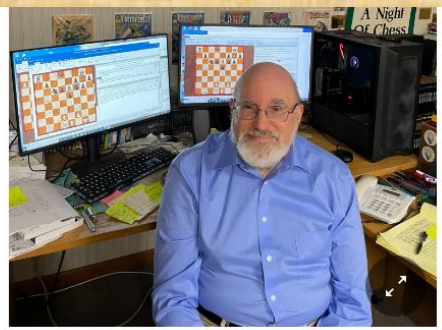
These are the questions I am often asked

- Isn’t correspondence chess dead?
- How do we know you didn’t cheat?
- Why not just let a computer make every move?
- Didn’t you just get lucky?
- Won’t the player with the most powerful machine win?
- By the way, what’s the best engine?

Some questions of my own:

- Why isn’t every correspondence player rated 2580?
- Why do neural net engines still beat other neural net engines?
- Why are some correspondence players still winning?
- Is Correspondence Chess the canary in the coal mine?
- You got lucky, right?
- By the way, what engine(s) do you use?





Jon Edwards at home. He is the first American in almost 40 years to win the World Correspondence Chess Championship. Courtesy of Jon Edwards

Even with such a plan, a majority of correspondence games end in a draw because it is nearly impossible to beat an opponent who has access to the defensive resources of a chess engine. Out of the 136 games played in the 32nd World Correspondence Chess Championship, 119 were draws. What's more, when games are decisive, this is sometimes because of human error

IN THE NEWS

BY JOHN HARTMANN

STOP THE PRESSES 11.01.2022 US CHESS

An Interview with ICCF World Champion CC-GM Jon Edwards

Chess Life: What does it mean to be the new ICCF World Champion?

Jon Edwards: It's extremely satisfying. I retired from Princeton University 12 years ago in order to write some chess books, to focus on my chess teaching, and to compete in the World Championship cycle. It took a long effort, a very narrow win, and some amazing experiences and interactions. The result is that I now get to join rather elite company.

I have idolized many of the former correspondence World Champions, notably Cecil Purdy and GM Grigory Sanakoev, whose writings I have gleefully devoured. I have tremendous respect for the chess of GM Hans Berliner and GM Victor Palciauskas, the two Americans who won the title before me. I have reviewed the chess of all recent ICCF champions, notably GM Alexandr Dronov, SIM Andrey Kochemasov, GMs Ron Langeveld, Christian Muck, and SIM Fabian Stanach. And the reality is that it brings a flood of congratulatory mail and new opportunities, potentially transforming my non-social, solitary existence into something different and perhaps more exciting.

How did you get to compete in the Championship? What is the qualification process like?

I started in Helen Warren's American Postal Chess Tournaments and won their championship four times. I made the leap to the

How long does it take you to decide on a move?

Much of the most intense work occurs before games start. I play through every game each opponent has ever played and forecast where the game will go. Before a move is played, I always have new ideas in mind.

Much of the routine during play is quite tedious. I maintain both manual and electronic records. When the move is received, I note the exact time, my candidate moves, records of all actions taken, and their results. I begin by comparing the official position with my game notes. I then review my notes in some detail. In the opening, I use all of the relevant ChessBase tools, notably LiveBook and Let's Check. I maintain a database of GM and high-level correspondence games. And even though I usually know exactly what move I am going to play, I run the position to high depth with two engines.

In the middlegame, I use ChessBase to find similar positions so that I know what plans are relevant. For me, the key is planning, which computers do not do well – Petrosian-like evaluations of where pieces belong, what exchanges are needed, and what move orders are most precise within the long-term plan.

In the final, my key game was against the Russian Osipov. [See the online version for this full game with the blow-by-blow annotations. –ed.] The game went 119 moves. The middlegame was especially challenging because the computer engines did not understand the main ideas and suggested in most middlegame positions that all candidate moves were equivalent.

IN OUR FINAL DAYS BEFORE GOING TO press with this issue, news broke that ICCF

Jon Edwards
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ChessBase

Chess News

SEARCH: LANGUAGE: DE EN ES FR

Jon Edwards wins the 32nd World Correspondence Championship

by Albert Silver

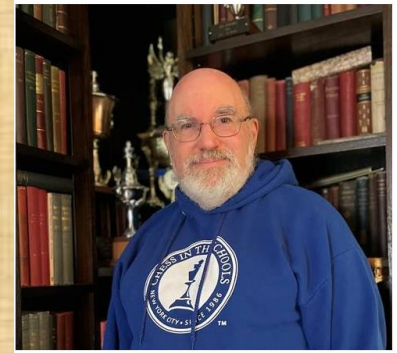
I like it! | 5 Comments

11/20/2022 – It has been nearly 40 years since an American last emerged victorious in the World Correspondence Chess Championship, but GM Jon Edwards has succeeded by winning the 32nd edition. While not a little remarkable, Jon Edwards holds another lesser known title: owner of the largest chess stamp collection in the world.

Oct 11, 2022

JON EDWARDS NEW ICCF WORLD CHAMPION!!

We welcome **Jon Edwards** to the two smallest fraternities in US chess. Jon has become only the third US player to achieve the title of World Correspondence Chess Champion, achieved in the World Correspondence Championship 32 Final. Concomitant to the victory is the title of ICCF Grandmaster where Jon becomes only the 14th US titleholder.



Please join me and the whole Correspondence Chess community (as evidenced in Dr. Staroske's letter included below) in congratulating Jon on this signal achievement.