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QuTeChess,

an experimental free [open source chess program](#) under the [GNU General Public License](#) written by [Aleš Zamuda](#), available from a [SourceForge SVN repository](#) ^[1]. As its name suggests, QuTeChess is written in [C++](#) using the [Qt4.7](#) cross-platform application and UI framework ^[2] (using QTime, QThread). QuTeChess supports the [UCI](#) protocol, and uses [bitboards](#) as internal [board representation](#) and a plain [alpha-beta](#) search. It contains a MakeMove class, which implements an idiosyncratic [Parallel Search](#), instantiating a new [thread](#) in its makeMove function ^[3]. The availability of *changegenes.cpp* ^[4] suggests QuTeChess' [piece values](#) were [tuned](#) by the [genetic programming](#) approach of [differential evolution](#) ^[5].

Publications

- [Borko Bošković](#), [Sašo Greiner](#), [Janez Brest](#), [Aleš Zamuda](#), [Viljem Žumer](#) (2008). *An Adaptive Differential Evolution Algorithm with Opposition-Based Mechanisms, Applied to the Tuning of a Chess Program*. [Advances in Differential Evolution](#), Studies in Computational Intelligence, ISBN: 978-3-540-68827-3
- [Borko Bošković](#), [Janez Brest](#), [Aleš Zamuda](#), [Sašo Greiner](#), [Viljem Žumer](#) (2011). [History mechanism supported differential evolution for chess evaluation function tuning](#). [Soft Computing](#), Vol. 15, No. 4

Forum Posts

- [A new UCI engine called QuTeChess](#) by [Christopher Conkie](#), [CCC](#), September 09, 2007

External Links

- [QuTeChess | Free Science & Engineering software downloads at SourceForge.net](#)

- [SourceForge.net: QuTeChess](#)

References

1. [^ QuTeChess | Free Science & Engineering software downloads at SourceForge.net](#)
2. [^ Qt - Cross-platform application and UI framework](#)
3. [^ SourceForge.net Repository - \[qutechess\] Contents of /trunk/src/makemove.cpp](#)
4. [^ SourceForge.net Repository - \[qutechess\] Index of /trunk/src](#)
5. [^ Borko Bošković, Sašo Greiner, Janez Brest, Aleš Zamuda, Viljem Žumer \(2008\). *An Adaptive Differential Evolution Algorithm with Opposition-Based Mechanisms, Applied to the Tuning of a Chess Program*. \[Advances in Differential Evolution\]\(#\), Studies in Computational Intelligence, ISBN: 978-3-540-68827-3](#)

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