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## OVERCHAMPION

The title World Champion has a magic sound. It expresses the idea that a player is stronger than all other players in the world. It is the superlative among players. There is nothing above, ... or is there? In the 1970s the Dutch Grandmaster Hein Donner introduced the title Overchampion for Grandmaster Victor Korchnoi, since his performances in tournaments, in matches, and in single games were extraordinary, as was his play. Although he did not live up to these expectations in his 1974 and 1978 matches against Karpov, it was generally accepted that Korchnoi was the Overchampion and Karpov the World Champion, whatever that meant.

Since December 2006, the (computer-)chess world has a new Overchampion, in the entity DEEP FRITZ 10. The way the program won its match against World Champion Vladimir Kramnik was superb. If we disregard the win in the second game and only look at the final game, we must admit that DEEP FRITZ 10 is the better player, the Overchampion. The Overchampion most clearly showed its strength in game six by introducing a novelty followed by a couple of brilliant ideas. Our congratulations go to Frans Morsch, Mathias Feist, and the ChessBase team for their continuous improvements of the program, their perseverance to reach this goal, and their outstanding achievement (see pages 208-213 of this issue).

Meanwhile we observe that there are many runners-up. They believe that they are equally strong or even stronger than the Overchampion. In this issue Jeroen Noomen provides an overview of the 2005 revolution and the ratings of the runners-up (see pages 227-229). He discusses RYBKA, ZAPPA, FRUIT, mentions HYDRA, as well as JUNIOR, SHREDDER, and FRITZ. Whatever the case, the current situation is as follows: JUNIOR is the 2006 World Champion and DEEP FRITZ 10 is the 2006 Overchampion.

With the seven contenders mentioned, the fight is severe and intense. Paraphrasing Sir Walter Scott (1771-1832), we are tempted to state: “What shall be the chess game’s fate? Who shall be the fatal research mate?” By this semi-quotation we also imply to formulate the following question as a next research question: Can we *solve* the game of chess? If the answer is affirmative, then other questions emerge, such as when, by whom, and by what means? At this victorious moment of the birth of an Overchampion, your Editor will not speculate on the “when” question, since that is in fact of subordinate nature. It is clear that solving the game is the next step.

In 1958, Herbert Simon stated: “Within ten years, a computer will be the World Champion unless the rules bar it from competition.” He had to wait until 1997 (when DEEP BLUE defeated Kasparov), before it actually happened. Simon’s statement has been taken by many as an example of an overclaim by AI researchers. The opponents of strong AI call it a bold prediction. In my opinion, the opponents are wrong since the 1958 prediction was only an optimistic estimation of the length of the time needed. The idea of underestimating the cost in an algorithm that is searching for the optimal path as happens in the A\* algorithm is essential for achieving the goal. So did Simon. It is good that he made such a prediction.

In retrospect, we should have asked for two more predictions: (1) when will a computer be an Overchampion? and (2) when will the game be solved? How difficult such predictions are can be seen in the two obituaries of Adriaan de Groot. The eminent Dutch scientist, who passed away in August 2006, was a close friend of Herb Simon, but scientifically they were opponents. De Groot’s work, which includes the well-known book *Thought and Choice in Chess*, contains many contributions to the AI domain and in particular to chess and cognition. The latter topic is elaborated upon by Fernand Gobet (see pages 236-243).

Next to Chess, this issue contains new ideas on capturing problems in Go, on Sum Games, on Risk, and on Complexity. Moreover, we have the tournament reports and the conference reports all producing the same rhythm: “progress in science is going very fast: within the next three years many breakthroughs are to be expected.” Our readers may be assured, this Journal will report on them.

Jaap van den Herik

#### WELCOME AND FAREWELL

The composition and production of the *ICGA Journal* is an interesting but laborious task, as is the editing of all contributions, being articles, notes, and reports. Up to January 2007, the Editor-in-Chief was pleased with the support by Dr. Jeroen Donkers as Deputy Editor. Jeroen did his Ph.D. research in Opponent Modelling some years ago and thereafter he served our community. A year ago he has decided to take up his original computer-science research in the area of biology-inspired informatics. Since January 1, 2006 he is the coordinator of the BIOMICC group within our institute MICC-IKAT. The new task takes a great deal of his time and therefore he believed it was wise to step down as Deputy Editor. The Editorial Board and all other ICGA officers would like to thank Jeroen for the smooth cooperation over the years and wish him much success in his next job.

The same Board and officers are grateful to Dr. Mark Winands for his willingness to succeed Dr. Donkers in the function of Deputy Editor. We expect to cooperate equally well with Mark, who is known to our readers by his Ph.D. research of the game Lines of Action, performed within our institute. – Ed.

*ICGA Journal* readers who are interested in information on our publications are referred to our website. A complete list of all articles, notes, and literature reviews published in the *ICGA Journal* and the *ICGA Journal* is accessible on the Internet at <http://www.icga.org>

The credits of the photographs in this issue are to: ChessBase, Ingo Althöfer, Maciej Szmit, Eric van Reem, family De Groot.