Voordeckers K., Verstrepen K.J. (2015), "Experimental evolution of the model euka-
    ryote *Saccharomyces cerevisiae* yields insight into the molecular mechanisms un-
    derlying adaptation", *Current Opinion in Microbiology*; 28, s. 1–9.

Transfer of ideas from biology to computer science based on the example of genetic algorithms

ABSTRACT. Those who have developed genetic algorithms assert that they were inspired
by ideas in evolutionary biology. The author of this article investigates whether pro-
grammers who deal with genetic algorithms really did borrow ideas from biology and
bring them to computer science. In order to facilitate the understanding of these issues,
the author also outlines the major ideas in evolutionary biology and the way in which
classical genetic algorithms work

KEY WORDS: philosophy of computer science, evolutionary science, algorithms, artifi-
cial intelligence

Joanna Holdys, Akademia Wychowania Fizycznego im. Eugeniusza Piaseckiego
w Poznaniu, ul. Królowej Jadwigi 27/39, 61-871 Poznań

Sławomir Leciejewski, Instytut Filozofii, Uniwersytet im. Adama Mickiewicza,
ul. Szamarzewskiego 89C, 60-568 Poznań, slaaw@amu.edu.pl