

The creative process: A computer model of storytelling and creativity

Scott R. Turner

(University of California, Los Angeles)

Hillsdale, NJ: Lawrence Erlbaum

Associates, 1994, ix + 298 pp.

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Reviewed by

Keith Outley

Ontario Institute for Studies in Education

Within cognitive science and psychology, there has been a good deal of interest recently in the topic of creativity. In this book, Scott Turner of the University of California, Los Angeles, presents a theory of creativity applied to generating small stories.

Turner can be thought of as a member of the third generation of the Schank family: first, of course, there was grandfather Roger Schank, who in the 1970s with Robert Abelson at Yale, embarked on the research project of understanding narrative text using the ideas of goals, plans, and scripts. The attempt was to propose computational models that would accomplish aspects of narrative understanding. The second generation was a talented group of people, including Wendy Lehnert and Robert Wilensky, who did their Ph.D.s at Yale on story understanding. Turner is a member of a third generation, advised by Michael Dyer who also obtained his Ph.D. at Yale and then moved to an academic position at UCLA. Dyer had turned his attention to story generation as well as story understanding.

In the classic mode, Turner took on rather too much for his Ph.D. He wrote a large artificial intelligence program, 17,000 lines of Lisp code, that produces a reasonable output that could, with the suspension of a certain amount of disbelief, pass for the production of a human author. He calls his program "Minstrel." It generates stories of half a page or so about knights and ladies at the court of King Arthur. The program was the core of his Ph.D. thesis, and this is the book of the program.

Here is a sample from one of Minstrel's stories (p. 72):

It was the spring of 1089, and a knight named Lancelot returned to Camelot from elsewhere. Lancelot was hot tempered. Once, Lancelot lost a joust. Because he was hot tempered, Lancelot wanted to destroy his sword. Lancelot struck his sword. His sword was destroyed.

One day, a Lady of the court named Andrea wanted to have some berries. Andrea went to the woods. Andrea had some berries because Andrea picked some berries. At the same time, Lancelot's horse moved Lancelot to the woods. This unexpectedly caused him to be near Andrea. Because Lancelot was near Andrea, Lancelot saw Andrea. Lancelot loved Andrea.

This is about 40% of the story. We human readers are meant to infer that Lancelot fell in love with Andrea. It's not a bad story. In the next paragraph Lancelot is again moved by his horse, unexpectedly, into the woods, and he sees Andrea kissing someone called Frederick. His hot temper is again roused. If you want to know what happens you will have to read the book!

Creative Process A Computer Model Of Storytelling And Creativity

Daniel F McAuley



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