

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

Jin-Ying Zhang



Creative Process A Computer Model Of Storytelling And Creativity:

The Creative Process Scott R. Turner, 1994 First Published in 1994 Routledge is an imprint of Taylor Francis an informa company *Story Machines: How Computers Have Become Creative Writers* Mike Sharples, Rafael Pérez y Pérez, 2022-07-05 This fascinating book explores machines as authors of fiction past present and future For centuries writers have dreamed of mechanical storytellers We can now build these devices What will be the impact on society of AI programs that generate original stories to entertain and persuade What can we learn about human creativity from probing how they work In *Story Machines* two pioneers of creative artificial intelligence explore the design and impact of AI story generators The book covers three themes language generators that compose coherent text storyworlds with believable characters and AI models of human storytellers Providing examples of story machines through the ages it covers the history recent developments and future implications of automated story generation Anyone with an interest in story writing will gain a new perspective on what it means to be a creative writer what parts of creativity can be mechanized and what is essentially human *Story Machines* is for those who have ever wondered what makes a good story why stories are important to us and what the future holds for storytelling [Handbook of Narratology](#) Peter Hühn, Jan Christoph Meister, John Pier, Wolf Schmid, 2014-10-10 This handbook provides a systematic overview of the present state of international research in narratology and is now available in a second completely revised and expanded edition Detailed individual studies by internationally renowned narratologists elucidate central terms of narratology present a critical account of the major research positions and their historical development and indicate directions for future research **The Creative Mind** Margaret A. Boden, 2004 This second edition of *The Creative Mind* has been updated to include recent developments in artificial intelligence with a new preface introduction and conclusion by the author [An Introduction to Narrative Generators](#) Rafael Pérez y Pérez, Mike Sharples, 2023-06-30 This book describes how computer programs can generate narratives and how studies of computational narrative can illuminate how humans tell stories Combining an introduction to relevant concepts related to automatic storytelling with accessible descriptions of well known computer programs that illustrate how such concepts are employed the book is aimed at an interdisciplinary audience and assumes little or no background in computer science The book introduces the most relevant techniques employed over the last 60 years for the development of computer models for narrative generation including narrative templates problem solving planning author engagement and reflection and statistical methods such as deep neural networks ending with an examination of the societal implications of the development of automatic narrative generator systems *Encyclopedia of Library and Information Science* Allen Kent, Harold Lancour, William Z. Nasri, Jay Elwood Daily, 1968 Vol 73 index to v 48 72 **Library & Information Science Abstracts** , 2004 **Interactive Drama, Art and Artificial Intelligence** Michael Mateas, 2002 **Books in Print Supplement** , 1994 [Semiotica](#) , 1998 **Generating Narrative Variation in Interactive Fiction**

Nick Montfort, 2007 **Computational Linguistics**, 1995 **Journal of the American Society for Information Science** American Society for Information Science, 1996 *Artificial Intelligence & Creativity* American Association for Artificial Intelligence. Spring Symposium, 1993 Narratologies David Herman, 1999 **Mind as Machine** Margaret A. Boden, 2006 **Annual Report of the Dean** University of North Carolina at Chapel Hill. School of Information and Library Science, 1995 **Cognition** Margaret W. Matlin, 1998 This text's success has come in large part from its up to date coverage of important research and theories and offers the latest and most comprehensive overview of cognition on the market today Recent developments in perception imagery problem solving and creativity are highlighted along with advances in such areas as memory and language and expanded theoretical approaches Up to date carefully revised coverage of topics Clear engaging writing with numerous examples Students do not need to struggle to understand overly complex descriptions Extensive useful pedagogical devices Application of cognitive psychology to other disciplines Many applications relate to careers that students may intend to pursue such as education communication business consumer psychology clinical psychology social psychology medicine and law Margaret Matlin has a strong reputation for her research in cognitive psychology Encyclopedia of Primary Prevention and Health Promotion Thomas P. Gullotta, Martin Bloom, 2003-01-31 Foundational topics such as history ethics and principles of primary prevention as well as specific issues such as consultation political issues and financing The second section addresses such topics as abuse depression eating disorders HIV AIDS injuries and religion and spirituality often dividing such topics into separate entries addressing childhood adolescence and adulthood *Avatars of Story* Marie-Laure Ryan, 2006 Since its inception narratology has developed primarily as an investigation of literary narrative fiction By grappling with semiotic media other than language and technology other than print the text reveals how digital media convey meaning and create stories

Unveiling the Magic of Words: A Overview of "**Creative Process A Computer Model Of Storytelling And Creativity**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Creative Process A Computer Model Of Storytelling And Creativity**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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