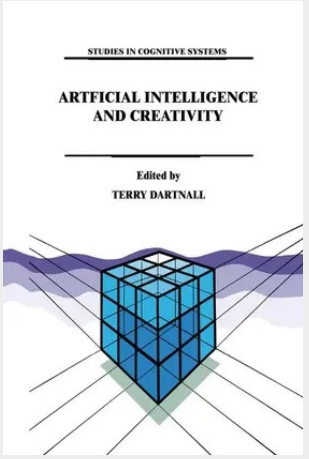
Dartnall

# Artificial Intelligence and Creativity

An Interdisciplinary Approach

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199,99 € (zzgl. MwSt.)

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Creativity is one of the least understood aspects of intelligence and is often seen as `intuitive' and not susceptible to rational enquiry. Recently, however, there has been a resurgence of interest in the area, principally in artificial intelligence and cognitive science, but also in psychology, philosophy, computer science, logic, mathematics, sociology, and architecture and design. This volume brings this work together and provides an overview of this rapidly developing field. It addresses a range of issues. Can computers be creative? Can they help us to understand human creativity? How can artificial intelligence (AI) enhance human creativity? How, in particular, can it contribute to the `sciences of the artificial', such as design? Does the new wave of AI (connectionism, geneticism and artificial life) offer more promise in these areas than classical, symbol-handling AI? What would the implications be for AI and cognitive science if computers could be creative?
These issues are explored in five interrelated parts, each of which is introducted and explained by a leading figure in the field.
- Prologue (Margaret Boden)
- Part I: Foundational Issues (Terry Dartnall)
- Part II: Creativity and Cognition (Graeme S. Halford and Robert Levinson)
- Part III: Creativity and Connectionism (Chris Thornton)
- Part IV: Creativity and Design (John Gero)
- Part V: Human Creativity Enhancement (Ernest Edmonds)
- Epilogue (Douglas Hofstadter)
For researchers in AI, cognitive science, computer science, philosophy, psychology, mathematics, logic, sociology, and architecture and design; and anyone interested in the rapidly growing field of artificial intelligence and creativity.

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**Artikelnummer:** 9780792330615
**Medium:** Buch
**ISBN:** 978-0-7923-3061-5
**Verlag:** Springer Netherlands
**Erscheinungstermin:** 31.08.1994
**Sprache(n):** Englisch
**Auflage:** 1. Auflage 1994
**Serie:** Studies in Cognitive Systems
**Produktform:** Gebunden
**Gewicht:** 1920 g
**Seiten:** 458
**Format (B x H):** 157 x 235 mm



**Kundenservice Verlag Dr. Otto Schmidt KG**
Neumannstraße 10, 40235 Düsseldorf | kundenservice@otto-schmidt.de | 0221-93738-997 (Inland)