

1. Record Nr.	UNINA9910484656703321
Titolo	Advances in Artificial Life : 8th European Conference, ECAL 2005, Canterbury, UK, September 5-9, 2005, Proceedings // edited by Mathieu Capcarrere, Alex A. Freitas, Peter J. Bentley, Colin G. Johnson, Jon Timmis
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2005
ISBN	3-540-31816-X
Edizione	[1st ed. 2005.]
Descrizione fisica	1 online resource (XIX, 949 p.)
Collana	Lecture Notes in Artificial Intelligence, , 2945-9141 ; ; 3630
Altri autori (Persone)	CapcarrereMathieu S
Disciplina	570.1/13
Soggetti	Artificial intelligence Computer science User interfaces (Computer systems) Human-computer interaction Computer science - Mathematics Discrete mathematics Pattern recognition systems Bioinformatics Artificial Intelligence Theory of Computation User Interfaces and Human Computer Interaction Discrete Mathematics in Computer Science Automated Pattern Recognition
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Conceptual Track -- Morphogenesis and Development -- Robotics and Autonomous Agents -- Evolutionary Computation and Theory -- Cellular Automata -- Models of Biological Systems and Their Applications -- Ant Colony and Swarm Systems -- Evolution of Communication -- Simulation of Social Interactions -- Self-replication -- Artificial Chemistry -- Posters.
Sommario/riassunto	TheArtificialLifetermappearedmorethan20yearsagoinasmallcornerofNew

Mexico, USA. Since then the area has developed dramatically, many researchers joining enthusiastically and research groups sprouting everywhere. This frenetic activity led to the emergence of several strands that are now established fields in themselves. We are now reaching a stage that one may describe as maturer: with more rigour, more benchmarks, more results, more stringent acceptance criteria, more applications, in brief, more sound science. This, which is the natural path of all new areas, comes at a price, however. A certain enthusiasm, a certain adventurousness from the early years is fading and may have been lost on the way. The field has become more reasonable. To counterbalance this and to encourage lively discussions, a conceptual track, where papers were judged on criteria like importance and/or novelty of the concepts proposed rather than the experimental/theoretical results, has been introduced this year. A conference on a theme as broad as Artificial Life is bound to be very -

verse, but a few tendencies emerged. First, fields like 'Robotics and Autonomous Agents' or 'Evolutionary Computation' are still extremely active and keep on bringing a wealth of results to the A-Life community. Even there, however, new tendencies appear, like collective robotics, and more specifically self-assembling robotics, which represent now a large subsection. Second, new areas appear.
