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Securing our identity has become mission critical in the world we live in today. By standing for Augmented Identity, an identity that ensures privacy and trust and

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Our sewing machine buying guide explains the different types of sewing machine available. It will also help you find the best machine

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for your needs and projects. Once you've picked a reliable sewing machine that's built to last, you'll want to make sure you get the most out of it. Have a look at our guide to the sewing machine essential kit.

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This is a functional maths skills revision quiz. Functional maths is an essential part of our daily life, from shopping to getting to a place at the right time, paying bills to ordering something online, almost

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everything is done on basic maths.
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everyone. This quiz tests those
skills you possess. Give it a try.

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Objectives: To evaluate the impact
of a new assessment system, the

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Minimum Data Set for Home Care
(MDS-HC), on the functional
status and hospitalization rates of
frail, community-dwelling older
people. Design: Single-blind
randomized trial with 1-year follow-
up. Setting: Bergamo, Italy.
Participants: All 187 subjects who

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were eligible for home care
services delivered by two Health
Districts ...

~~Impact of a new assessment
system, the MDS-HC, on function
...~~

After you set the domain

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functional level to a certain value, you cannot roll back or lower the domain functional level, with the following exceptions: When you raise the domain functional level to Windows Server 2016 and if the forest functional level is Windows Server 2012 or lower, you have

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the option of rolling the domain functional level back to Windows Server 2012 or Windows Server 2012 R2.

Morpho-functional Machines are a

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set of tools for investigating the design of embodied intelligence in autonomous bio-artifact systems.

The focus in Morpho-functional Machines is on the balance of morphology, materials, and control; intelligent behavior emerges from the interaction of an

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autonomous system with a real-world environment. How, then, should body morphology, body materials, and sensory systems be designed to achieve a certain set of tasks or desired behaviors in a particular environment? This and other questions were addressed at

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Morpho-functional Machines held
in Tokyo in 2001. Collected here
are the revised papers from the
workshop, providing a new
perspective for understanding
embodied intelligence. Presenting
the innovative concept of Morpho-

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functional Machines, this book is a
valuable source for scientists and
engineers working in ethnology,
cognitive sciences, robotic
engineering, and artificial
intelligence.

This book contains scientific and

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engineering activities of the fifth international conference of Intelligent Autonomous Systems (IAS-5). The exploration for automatic systems has much attention over the centuries and created attractive research activities. The Intelligent and

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Autonomous systems are the
current trend toward fully
automatic systems that can adapt
to changes in their environment.
The purpose of the fifth IAS
conference is to provide an
opportunity for the international
community of researchers in the

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field of autonomous systems as
well as architectures, tools,
components, techniques, and new
IAS design methodologies. The
emphasis will be on science and
technology for autonomous
systems working in a complex
environment.

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The Animals to Animats
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Conference brings together
researchers from ethology,
psychology, ecology, artificial
intelligence, artificial life, robotics,
engineering, and related fields to
further understanding of the

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behaviors and underlying
mechanisms that allow natural and
synthetic agents (animats) to
adapt and survive in uncertain
environments The Animals to
Animats Conference brings
together researchers from
ethology, psychology, ecology,

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Artificial intelligence, artificial life, robotics, engineering, and related fields to further understanding of the behaviors and underlying mechanisms that allow natural and synthetic agents (animats) to adapt and survive in uncertain environments. The work presented

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focuses on well-defined models--robotic, computer-simulation, and mathematical--that help to characterize and compare various organizational principles or architectures underlying adaptive behavior in both natural animals and animats.

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- Motivation It is our dream to understand the principles of animals ' remarkable ability for adaptive motion and to transfer such abilities to a robot. Up to now, mechanisms for generation and control of stereotyped motions

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and adaptive motions in well-known simple environments have been formulated to some extent and successfully applied to robots. However, principles of adaptation to various environments have not yet been clarified, and autonomous adaptation remains unsolved as a seriously

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di?cult problem in robotics.

Apparently, the ability of animals and robots to adapt in a real world cannot be explained or realized by one single function in a control system and mechanism. That is, adaptation in motion is induced at every level from the central nervous

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system to the musculoskeletal system. Thus, we organized the International Symposium on Adaptive Motion in Animals and Machines (AMAM) for scientists and engineers concerned with adaptation on various levels to be brought together to discuss principles at each level and

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to investigate principles governing total systems. • History AMAM started in Montreal (Canada) in August 2000. It was organized by H. Kimura (Japan), H. Witte (Germany), G. Taga (Japan), and K. Osuka (Japan), who had agreed that having a small symposium on

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motion control, with people from several fields coming together to discuss specific issues, was worthwhile. Those four organizing committee members determined the scope of AMAM as follows.

An exploration of embodied

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points toward a theory of
intelligence in general; with case
studies of intelligent systems in
ubiquitous computing, business and
management, human memory, and
robotics. How could the body
influence our thinking when it

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seems obvious that the brain
controls the body? In How the
Body Shapes the Way We Think,
Rolf Pfeifer and Josh Bongard
demonstrate that thought is not
independent of the body but is
tightly constrained, and at the
same time enabled, by it. They

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argue that the kinds of thoughts we are capable of have their foundation in our embodiment—in our morphology and the material properties of our bodies. This crucial notion of embodiment underlies fundamental changes in the field of artificial intelligence

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over the past two decades, and
Pfeifer and Bongard use the basic
methodology of artificial
intelligence—"understanding by
building"—to describe their insights.
If we understand how to design
and build intelligent systems, they
reason, we will better understand

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Intelligence in general. In
accessible, nontechnical language,
and using many examples, they
introduce the basic concepts by
building on recent developments in
robotics, biology, neuroscience,
and psychology to outline a
possible theory of intelligence.

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They illustrate applications of such a theory in ubiquitous computing, business and management, and the psychology of human memory.

Embodied intelligence, as described by Pfeifer and Bongard, has important implications for our understanding of both natural and

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artificial intelligence.
Embodied Intelligence

Originating from a Dagstuhl seminar, the collection of papers presented in this book constitutes on the one hand a representative state-of-the-art survey of embodied artificial intelligence, and

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on the other hand the papers identify the important research trends and directions in the field. Following an introductory overview, the 23 papers are organized into topical sections on - philosophical and conceptual issues - information, dynamics,

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New Morphology - principles of
embodiment for real-world
applications - developmental
approaches - artificial evolution
and self-reconfiguration

The Arti?cial Lifetermappeared more
than 20 years ago in a small corner of N

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New 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

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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

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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

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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,

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new tendencies appear, like collective robotics, and more specifically self-assembling robotics, which represent now a large subsection. Second, new areas appear.

This book presents several recent

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Advances on Evolutionary
Computation, specially evolution-
based optimization methods and
hybrid algorithms for several
applications, from optimization and
learning to pattern recognition and
bioinformatics. This book also
presents new algorithms based on

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several analogies and metafores,
where one of them is based on
philosophy, specifically on the
philosophy of praxis and dialectics.
In this book it is also presented
interesting applications on
bioinformatics, specially the use of
particle swarms to discover gene

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expression patterns in DNA
microarrays. Therefore, this book
features representative work on
the field of evolutionary
computation and applied sciences.
The intended audience is graduate,
undergraduate, researchers, and
anyone who wishes to become

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The International Symposium Creating Brain-Like Intelligence was held in February 2007 in Germany. The symposium brought together notable scientists

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How di?erent backgrounds and
with di?erent expertise related to
the emerging ?eld of brain-like
intelligence. Our understanding of
the principles behind brain-like
intelligence is still limited. After
all, we have had to acknowledge
that after tremendous advances in

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New Areas like neural networks,
computational and artificial
intelligence (a field that had just
celebrated its 50 year
anniversary) and fuzzy systems,
we are still not able to mimic even
the lower-level sensory
capabilities of humans or animals.

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We asked what the biggest obstacles are and how we could gain ground toward a scientific understanding of the autonomy, flexibility, and robustness of intelligent biological systems as they strive to survive. New principles are usually found at the

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Interfaces between existing
disciplines, and traditional
boundaries between disciplines
have to be broken down to see
how complex systems become
simple and how the puzzle can be
assembled. During the symposium
we could identify some recurring

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themes that pervaded many of the talks and discussions. The triad of structure, dynamics and environment, the role of the environment as an active partner in shaping systems, adaptivity on all scales (learning, development, evolution) and the amalgamation of an internal and

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external world in brain-like intelligence rate high among them. Each of us is rooted in a certain community which we have to serve with the results of our research. Looking beyond our fields and working at the interfaces between established areas of research

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This book discusses the core principles and practical applications of a brand new machine category: liquid-metal soft machines and motors. After a brief

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Introduction on the conventional
soft robot and its allied materials,
it presents the new conceptual
liquid-metal machine, which
revolutionizes existing rigid
robots, both large and small. It
outlines the typical features of the
soft liquid-metal materials and

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describes the various
transformation capabilities,
mergence of separate metal
droplets, self-rotation and planar
locomotion of liquid-metal objects
under external or internal
mechanism. Further, it introduces
a series of unusual phenomena

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discovered while designing the
shape changeable smart soft
machine and interprets the related
mechanisms regarding the effects
of the shape, size, voltage,
orientation and geometries of the
external fields to control the liquid-
metal transformers. Moreover, the

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book illustrates typical strategies
to construct a group of different
advanced functional liquid-metal
soft machines, since such
machines or robots are hard to
fabricate using rigid-metal or
conventional materials. With highly
significant fundamental and

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practical findings, this book is
intended for researchers
interested in establishing a general
method for making future smart
soft machine and accompanying
robots.

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