

Atlantis Thinking Machines
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Computational Creativity Research: Towards Creative Machines

Computational Creativity Research Towards Creative Machines Atlantis Thinking Machines

**Gonzalo A. Aranda-Corral, Jacques
Calmet, Francisco J. Martín-Mateos**



Computational Creativity Research Towards Creative Machines Atlantis Thinking Machines:

Computational Creativity Research: Towards Creative Machines Tarek R. Besold, Marco Schorlemmer, Alan Smaill, 2014-12-04 Computational Creativity Concept Invention and General Intelligence in their own right all are flourishing research disciplines producing surprising and captivating results that continuously influence and change our view on where the limits of intelligent machines lie each day pushing the boundaries a bit further By 2014 all three fields also have left their marks on everyday life machine composed music has been performed in concert halls automated theorem provers are accepted tools in enterprises R D departments and cognitive architectures are being integrated in pilot assistance systems for next generation airplanes Still although the corresponding aims and goals are clearly similar as are the common methods and approaches the developments in each of these areas have happened mostly individually within the respective community and without closer relationships to the goings on in the other two disciplines In order to overcome this gap and to provide a common platform for interaction and exchange between the different directions the International Workshops on Computational Creativity Concept Invention and General Intelligence C3GI have been started At ECAI 2012 and IJCAI 2013 the first and second edition of C3GI each gathered researchers from all three fields presenting recent developments and results from their research and in dialogue and joint debates bridging the disciplinary boundaries The chapters contained in this book are based on expanded versions of accepted contributions to the workshops and additional selected contributions by renowned researchers in the relevant fields Individually they give an account of the state of the art in their respective area discussing both theoretical approaches as well as implemented systems When taken together and looked at from an integrative perspective the book in its totality offers a starting point for a re integration of Computational Creativity Concept Invention and General Intelligence making visible common lines of work and theoretical underpinnings and pointing at chances and opportunities arising from the interplay of the three fields **Digitized** Gali Einav, 2019-02-08 Gali Einav and a strong group of international contributors offer a timely collection that combines academic insights and entrepreneurial case studies focused on digital innovation By exploring the effect of disruptive technologies within media health music and employment they help readers to take their next steps into the digital future *Film Text Analysis* Janina Wildfeuer, John A. Bateman, 2016-10-04 This book examines film as a multimodal text and an audiovisual synthesis bringing together current work within the fields of narratology philosophy multimodal analysis sound as well as cultural studies in order to cover a wide range of international academic interest The book provides new insights into current work and turns the discussion towards recent research questions and analyses representing and constituting in each contribution new work in the discipline of film text analysis With the help of various example analyses all showing the methodological applicability of the discussed issues the collection provides novel ways of considering film as one of the most complex and at the same time broadly comprehensible texts *Concept Invention* Roberto Confalonieri, Alison Pease, Marco Schorlemmer, Tarek R.

Besold, Oliver Kutz, Ewen Maclean, Maximos Kaliakatsos-Papakostas, 2018-10-05 This book introduces a computationally feasible cognitively inspired formal model of concept invention drawing on Fauconnier and Turner's theory of conceptual blending a fundamental cognitive operation The chapters present the mathematical and computational foundations of concept invention discuss cognitive and social aspects and further describe concrete implementations and applications in the fields of musical and mathematical creativity Featuring contributions from leading researchers in formal systems cognitive science artificial intelligence computational creativity mathematical reasoning and cognitive musicology the book will appeal to readers interested in how conceptual blending can be precisely characterized and implemented for the development of creative computational systems

Figurative Meaning Construction in Thought and Language Annalisa

Baicchi, 2020-08-12 This volume brings together twelve usage based studies conducted by leading researchers in language and cognition that explore core issues of figurativeness from the Cognitive Linguistics perspective The individual chapters reveal the central function of figurativeness in thought and its impact on language Cognition relies on knowledge structuring tools in the construction of meaning both mentally and linguistically Collectively the chapters delve into an array of topics that are crucial to future research in figurative meaning construction especially on questions of identification and structure of figures the figurative motivation of constructions the impact of figurativeness on pragmatic and multimodal communication and the correlation between figures and cognitive models

The Evolution of Rhythm Cognition:

Timing in Music and Speech Andrea Ravignani, Henkjan Honing, Sonja A. Kotz, 2018-07-24 Human speech and music share a number of similarities and differences One of the closest similarities is their temporal nature as both i develop over time ii form sequences of temporal intervals possibly differing in duration and acoustical marking by different spectral properties which are perceived as a rhythm and iii generate metrical expectations Human brains are particularly efficient in perceiving producing and processing fine rhythmic information in music and speech However a number of critical questions remain to be answered Where does this human sensitivity for rhythm arise How did rhythm cognition develop in human evolution How did environmental rhythms affect the evolution of brain rhythms Which rhythm specific neural circuits are shared between speech and music or even with other domains Evolutionary processes long time scales often prevent direct observation understanding the psychology of rhythm and its evolution requires a close fitting integration of different perspectives First empirical observations of music and speech in the field are contrasted and generate testable hypotheses Experiments exploring linguistic and musical rhythm are performed across sensory modalities ages and animal species to address questions about domain specificity development and an evolutionary path of rhythm Finally experimental insights are integrated via synthetic modeling generating testable predictions about brain oscillations underlying rhythm cognition and its evolution Our understanding of the cognitive neurobiological and evolutionary bases of rhythm is rapidly increasing However researchers in different fields often work on parallel potentially converging strands with little mutual awareness

This research topic builds a bridge across several disciplines focusing on the cognitive neuroscience of rhythm as an evolutionary process. It includes contributions encompassing although not limited to 1 developmental and comparative studies of rhythm e.g. critical acquisition periods, innateness; 2 evidence of rhythmic behavior in other species both spontaneous and in controlled experiments; 3 comparisons of rhythm processing in music and speech e.g. behavioral experiments, systems neuroscience perspectives on music speech networks; 4 evidence on rhythm processing across modalities and domains; 5 studies on rhythm in interaction and context, social affective etc; 6 mathematical and computational e.g. connectionist symbolic models of rhythmicity as an evolved behavior.

Image Schemas and Concept Invention Maria M. Hedblom, 2020-06-13 In this book the author's theoretical framework builds on linguistic and psychological research arguing that similar image schematic notions should be grouped together into interconnected family hierarchies with complexity increasing with regard to the addition of spatial and conceptual primitives. She introduces an image schema logic as a language to model image schemas and she shows how the semantic content of image schemas can be used to improve computational concept invention. The book will be of value to researchers in artificial intelligence, cognitive science, psychology and creativity.

The Road to Universal Logic Arnold Koslow, Arthur Buchsbaum, 2015-06-10 This second volume of a collection of papers offers new perspectives and challenges in the study of logic. It is presented in honor of the fiftieth birthday of Jean Yves B ziau. The papers touch upon a wide range of topics including paraconsistent logic, quantum logic, geometry of oppositions, categorical logic, computational logic, fundamental logic, notions, identity, rule, quantification and history of logic, Leibniz, Peirce, Hilbert. The volume gathers personal recollections about Jean Yves B ziau and an autobiography followed by 25 papers written by internationally distinguished logicians, mathematicians, computer scientists, linguists and philosophers including Irving Anellis, Dov Gabbay, Ivor Grattan Guinness, Istvan Nemeti, Henri Prade. These essays will be of interest to all students and researchers interested in the nature and future of logic.

Foundations of Trusted Autonomy Hussein A. Abbass, Jason Scholz, Darryn J. Reid, 2018-01-15 This book establishes the foundations needed to realize the ultimate goals for artificial intelligence such as autonomy and trustworthiness. Aimed at scientists, researchers, technologists, practitioners and students, it brings together contributions offering the basics, the challenges and the state of the art on trusted autonomous systems in a single volume. The book is structured in three parts with chapters written by eminent researchers and outstanding practitioners and users in the field. The first part covers foundational artificial intelligence technologies while the second part covers philosophical, practical and technological perspectives on trust. Lastly, the third part presents advanced topics necessary to create future trusted autonomous systems. The book augments theory with real world applications including cyber security, defence and space.

Swarm Intelligence Algorithms Adam Slowik, 2020-08-25 Nature based algorithms play an important role among artificial intelligence algorithms. Among them are global optimization algorithms called swarm intelligence algorithms. These algorithms that use the behavior of simple agents

and various ways of cooperation between them are used to solve specific problems that are defined by the so called objective function. Swarm intelligence algorithms are inspired by the social behavior of various animal species e.g. ant colonies, bird flocks, bee swarms, schools of fish, etc. The family of these algorithms is very large and additionally includes various types of modifications to enable swarm intelligence algorithms to solve problems dealing with areas other than those for which they were originally developed. This book presents 24 swarm algorithms together with their modifications and practical applications. Each chapter is devoted to one algorithm. It contains a short description along with a pseudo code showing the various stages of its operation. In addition, each chapter contains a description of selected modifications of the algorithm and shows how it can be used to solve a selected practical problem. This book should also be useful for undergraduate and postgraduate students studying nature based optimization algorithms and can be a helpful tool for learning these algorithms along with their modifications and practical applications. In addition, it can be a useful source of knowledge for scientists working in the field of artificial intelligence as well as for engineers interested in using this type of algorithms in their work. If the reader wishes to expand his knowledge beyond the basics of swarm intelligence algorithms presented in this book and is interested in more detailed information, we recommend the book *Swarm Intelligence Algorithms: A Tutorial* Edited by A. Slowik, CRC Press, 2020. It contains a detailed explanation of how each algorithm works along with relevant program codes in Matlab and the C programming language as well as numerical examples illustrating step by step how individual algorithms work.

Representation in the Brain Asim Roy, Leonid Perlovsky, Tarek Besold, Juyang Weng, Jonathan Edwards, 2018-09-28. This eBook contains ten articles on the topic of representation of abstract concepts both simple and complex at the neural level in the brain. Seven of the articles directly address the main competing theories of mental representation: localist and distributed. Four of these articles argue either on a theoretical basis or with neurophysiological evidence that abstract concepts simple or complex exist have to exist at either the single cell level or in an exclusive neural cell assembly. There are three other papers that argue for sparse distributed representation: population coding of abstract concepts. There are two other papers that discuss neural implementation of symbolic models. The remaining paper deals with learning of motor skills from imagery versus actual execution. A summary of these papers is provided in the Editorial.

Humanidades Digitales: lengua, texto, patrimonio y datos Isabel Galina Russell, Miriam Peña Pimentel, Ernesto Priani Saisó, José Francisco Barrón Tovar, David Domínguez Herbón, Adriana Álvarez Sánchez, 2019-01-09. Como se han ido conformando las prácticas de las Humanidades Digitales en América Latina. Nos encontramos colocados al inicio de una posible revisión es pronto para un análisis consistente de la conformación de las Humanidades Digitales en América Latina. Documentar un acontecimiento en el proceso mismo de su conformación es tarea ardua. Se trata plenamente de una cuestión de política de la producción de saber. Lo que se presenta en este segundo volumen llamado Humanidades Digitales: Lengua, texto, patrimonio y datos es otro documento para registrar la conformación del campo de las Humanidades Digitales en Am

rica Latina Este libro impulsado por la RedHD trata de meter al campo de lo visible los múltiples trabajos que gustan de usar múltiples prácticas tecnológicas y que sus operarios gustan de tratar como Humanidades Digitales Sus prácticas aún no se han instituido no cuentan con un campus central en América Latina Así se dispersan sus prácticas y difuminan sus contornos disciplinarios Las Humanidades Digitales en América Latina son quizás antes que un campo un archipiélago arena Los proyectos y trabajos las prácticas y aplicaciones de metodologías de las Humanidades Digitales se llevan a cabo como casos aislados si no contamos la designación Este libro intenta conjuntar en un término esos casos mostrando sus rasgos y gestos particulares Libro introductorio a la forma en que se hacen las Humanidades Digitales en esta región *Encyclopedia of Artificial Intelligence* Philip L. Frana, Michael J. Klein, 2021-04-07 This authoritative reference work will provide readers with a complete overview of artificial intelligence AI including its historic development and current status existing and projected AI applications and present and potential future impact on the United States and the world Some people believe that artificial intelligence AI will revolutionize modern life in ways that improve human existence Others say that the promise of AI is overblown Still others contend that AI applications could pose a grave threat to the economic security of millions of people by taking their jobs and otherwise rendering them obsolete or even worse that AI could actually spell the end of the human race This volume will help users understand the reasons AI development has both spirited defenders and alarmed critics explain theories and innovations like Moore's Law mindcloning and Technological Singularity that drive AI research and debate and give readers the information they need to make their own informed judgment about the promise and peril of this technology All of this coverage is presented using language and terminology accessible to a lay audience **Metaphor** Tony Veale, Ekaterina Shutova, Beata Beigman Klebanov, 2022-06-01 The literary imagination may take flight on the wings of metaphor but hard-headed scientists are just as likely as doe-eyed poets to reach for a metaphor when the descriptive need arises Metaphor is a pervasive aspect of every genre of text and every register of speech and is as useful for describing the inner workings of a black hole itself a metaphor as it is the affairs of the human heart The ubiquity of metaphor in natural language thus poses a significant challenge for Natural Language Processing NLP systems and their builders who cannot afford to wait until the problems of literal language have been solved before turning their attention to figurative phenomena This book offers a comprehensive approach to the computational treatment of metaphor and its figurative brethren including simile analogy and conceptual blending that does not shy away from their important cognitive and philosophical dimensions Veale Shutova and Beigman Klebanov approach metaphor from multiple computational perspectives providing coverage of both symbolic and statistical approaches to interpretation and paraphrase generation while also considering key contributions from philosophy on what constitutes the meaning of a metaphor This book also surveys available metaphor corpora and discusses protocols for metaphor annotation Any reader with an interest in metaphor from beginning researchers to seasoned scholars will find this book to be an invaluable guide to what is a fascinating linguistic phenomenon

The Cambridge Handbook of Intelligence Robert J. Sternberg, 2020-01-16 Written by the foremost experts in human intelligence It not only includes traditional topics such as the nature measurement and development of intelligence but also contemporary research into intelligence and video games collective intelligence emotional intelligence and leadership intelligence In an area of study that has been fraught with ideological differences this Handbook provides scientifically balanced and objective chapters covering a wide range of topics It does not shy away from material that historically has been emotionally charged and sometimes covered in biased ways such as intellectual disability race and intelligence culture and intelligence and intelligence testing The overview provided by this two volume set leaves virtually no area of intelligence research uncovered making it an ideal resource for undergraduates graduate students and professionals looking for a refresher or a summary of the new developments

Music and AI Alexandra Bonnici, Roger B. Dannenberg, Steven Kemper, Kenneth P. Camilleri, 2021-03-16

Mathematical Reasoning: The History and Impact of the DReaM Group Gregory Michaelson, 2021-11-20 This collection of essays examines the key achievements and likely developments in the area of automated reasoning In keeping with the group ethos Automated Reasoning is interpreted liberally spanning underpinning theory tools for reasoning argumentation explanation computational creativity and pedagogy Wider applications including secure and trustworthy software and health care and emergency management The book starts with a technically oriented history of the Edinburgh Automated Reasoning Group written by Alan Bundy which is followed by chapters from leading researchers associated with the group Mathematical Reasoning The History and Impact of the DReaM Group will attract considerable interest from researchers and practitioners of Automated Reasoning including postgraduates It should also be of interest to those researching the history of AI

Producing Figurative Expression John Barnden, Andrew Gargett, 2020-12-15 This collection contains a selection of recent work on people s production of figurative language metaphoric ironic metonymic hyperbolic and similarly of figurative expression in visual media and artefact design The articles illuminate issues such as why and under what circumstances people produce figurative expression and how it is moulded by their aims By focusing on production the intention is to help stimulate more academic research on it and redress historically lower levels of published work on generation than on understanding of figurative expression The contributions stretch across various academic disciplines mainly psychology cognitive linguistics and applied linguistics but with a representation also of philosophy and artificial intelligence and across different types of endeavour theoretical investigation and model building experimental studies and applications focussed work for instance figurative expression in product design and online support groups There is also a wide ranging introductory chapter that touches on areas outside the scope of the contributed articles and discusses difficult issues such as a complex interplay of production and understanding

Knowledge Discovery, Knowledge Engineering and Knowledge Management Ana Fred, Jan L.G. Dietz, David Aveiro, Kecheng Liu, Joaquim Filipe, 2017-01-21 This book constitutes the thoroughly refereed proceedings of the 7th

International Joint Conference on Knowledge Discovery Knowledge Engineering and Knowledge Management IC3K 2015 held in Lisbon Portugal in November 2015 The 25 full papers presented together with 2 invited papers were carefully reviewed and selected from 280 submissions The papers are organized in topical sections on knowledge discovery and information retrieval knowledge engineering and ontology development and knowledge management and information sharing

Artificial Intelligence and Symbolic Computation Gonzalo A. Aranda-Corral, Jacques Calmet, Francisco J.

Martín-Mateos, 2014-12-08 This book constitutes the refereed proceedings of the 12th International Conference on Artificial Intelligence and Symbolic Computation AISC 2014 held in Seville Spain in December 2014 The 15 full papers presented together with 2 invited papers were carefully reviewed and selected from 22 submissions The goals were on one side to bind mathematical domains such as algebraic topology or algebraic geometry to AI but also to link AI to domains outside pure algorithmic computing The papers address all current aspects in the area of symbolic computing and AI basic concepts of computability and new Turing machines logics including non classical ones reasoning learning decision support systems and machine intelligence and epistemology and philosophy of symbolic mathematical computing

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Table of Contents Computational Creativity Research Towards Creative Machines Atlantis Thinking Machines

1. Understanding the eBook Computational Creativity Research Towards Creative Machines Atlantis Thinking Machines
 - The Rise of Digital Reading Computational Creativity Research Towards Creative Machines Atlantis Thinking Machines
 - Advantages of eBooks Over Traditional Books
2. Identifying Computational Creativity Research Towards Creative Machines Atlantis Thinking Machines
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Computational Creativity Research Towards Creative Machines Atlantis Thinking

Machines

- User-Friendly Interface

4. Exploring eBook Recommendations from Computational Creativity Research Towards Creative Machines Atlantis Thinking Machines

- Personalized Recommendations
- Computational Creativity Research Towards Creative Machines Atlantis Thinking Machines User Reviews and Ratings
- Computational Creativity Research Towards Creative Machines Atlantis Thinking Machines and Bestseller Lists

5. Accessing Computational Creativity Research Towards Creative Machines Atlantis Thinking Machines Free and Paid eBooks

- Computational Creativity Research Towards Creative Machines Atlantis Thinking Machines Public Domain eBooks
- Computational Creativity Research Towards Creative Machines Atlantis Thinking Machines eBook Subscription Services
- Computational Creativity Research Towards Creative Machines Atlantis Thinking Machines Budget-Friendly Options

6. Navigating Computational Creativity Research Towards Creative Machines Atlantis Thinking Machines eBook Formats

- ePub, PDF, MOBI, and More
- Computational Creativity Research Towards Creative Machines Atlantis Thinking Machines Compatibility with Devices
- Computational Creativity Research Towards Creative Machines Atlantis Thinking Machines Enhanced eBook Features

7. Enhancing Your Reading Experience

- Adjustable Fonts and Text Sizes of Computational Creativity Research Towards Creative Machines Atlantis Thinking Machines
- Highlighting and Note-Taking Computational Creativity Research Towards Creative Machines Atlantis Thinking Machines
- Interactive Elements Computational Creativity Research Towards Creative Machines Atlantis Thinking Machines

8. Staying Engaged with Computational Creativity Research Towards Creative Machines Atlantis Thinking Machines

- Joining Online Reading Communities

- Participating in Virtual Book Clubs
- Following Authors and Publishers Computational Creativity Research Towards Creative Machines Atlantis Thinking Machines
- 9. Balancing eBooks and Physical Books Computational Creativity Research Towards Creative Machines Atlantis Thinking Machines
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Computational Creativity Research Towards Creative Machines Atlantis Thinking Machines
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Computational Creativity Research Towards Creative Machines Atlantis Thinking Machines
 - Setting Reading Goals Computational Creativity Research Towards Creative Machines Atlantis Thinking Machines
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Computational Creativity Research Towards Creative Machines Atlantis Thinking Machines
 - Fact-Checking eBook Content of Computational Creativity Research Towards Creative Machines Atlantis Thinking Machines
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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