

Atlantis Thinking Machines
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Tarek R. Besold
Marco Schorlemmer
Alan Smaill
Editors

Computational Creativity Research: Towards Creative Machines

Computational Creativity Research Towards Creative Machines Atlantis Thinking Machines

Gali Einav



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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 [Swarm Intelligence Algorithms \(Two Volume Set\)](#)

Adam Slowik, 2021-01-26 Swarm intelligence algorithms are a form of nature based optimization algorithms Their main inspiration is the cooperative behavior of animals within specific communities This can be described as simple behaviors of individuals along with the mechanisms for sharing knowledge between them resulting in the complex behavior of the entire community Examples of such behavior can be found in ant colonies bee swarms schools of fish or bird flocks Swarm intelligence algorithms are used to solve difficult optimization problems for which there are no exact solving methods or the use of such methods is impossible e g due to unacceptable computational time This set comprises two volumes Swarm Intelligence Algorithms A Tutorial and Swarm Intelligence Algorithms Modifications and Applications The first volume thoroughly presents the basics of 24 algorithms selected from the entire family of swarm intelligence algorithms 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 The second volume

describes selected modifications of these algorithms and presents their practical applications 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

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

Generative Knowledge Paolo Granata, 2025-11-04 Provides a bold conceptual framework for reimagining knowledge creation in the age of artificial intelligence What does it mean to know in a knowledge economy shaped by artificial intelligence Generative Knowledge Think Learn Create with AI explores how AI is redefining how we know and especially how knowledge itself is created shared and applied Paolo Granata presents a compelling conceptual framework of Generative Knowledge a dynamic and socially

embedded form of knowing that expands through iterative collaborative and tool mediated processes showing how human AI collaboration unlocks creative potential previously unimaginable Drawing from a rich intellectual tradition that spans media theory epistemology and cognitive science Generative Knowledge invites readers to rethink what it means to know not in spite of AI but in partnership with it The book is structured around six foundational principles iteration instrumentality sociality inquiry learnability and creativity developing new forms of critical thinking for the AI age These principles and the closing portrait of today s generative thinkers mirror Granata s conceptual argument and serve as a model for epistemic engagement with AI as a cognitive partner to generate new knowledge Repositioning AI from a mere tool of automation or productivity enhancer to a co creative partner in intellectual inquiry Generative Knowledge Emphasizes the generative mindset flexible collaborative and forward thinking for thriving in an AI enhanced knowledge economy Reframes AI as an epistemic technology that mediates and reshapes the human pursuit of understanding Provides a transdisciplinary synthesis of media ecology pragmatist philosophy cognitive science and constructionist epistemology for cultivating AI Literacy Introduces a new lexicon and a conceptual framework to help readers navigate emerging epistemic and technological paradigms Generative Knowledge Think Learn Create with AI is ideal for upper level undergraduate and graduate students in courses such as AI Literacy Media Theory Epistemology Philosophy of Technology Educational Technology and Knowledge Management It is also a valuable resource for educators researchers and professionals working in the knowledge economy and knowledge driven fields within arts humanities and interdisciplinary programs

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

Swarm Intelligence Algorithms Adam Slowik, 2020-08-25 Swarm intelligence algorithms are a form of nature based optimization algorithms Their main inspiration is the cooperative behavior of animals within specific communities This can be described as simple behaviors of individuals along with the mechanisms for sharing knowledge between them resulting in the complex behavior of the entire community Examples of such behavior can be found in ant colonies bee swarms schools of fish or bird flocks Swarm intelligence algorithms are used to solve difficult optimization problems for which there are no exact solving methods or the use of such methods is impossible e g due to unacceptable computational time This book thoroughly presents the basics of 24 algorithms selected from the entire family of swarm intelligence algorithms Each chapter deals with a different algorithm describing it in detail and showing how it works in the form of a pseudo code In addition the source code is provided for each algorithm in Matlab and in the C programming language In order to better understand how each swarm intelligence algorithm works a simple numerical example is included in each chapter which guides the reader step by step through the individual stages of the algorithm showing all necessary calculations This book can provide the basics for understanding how swarm intelligence algorithms work and aid readers in programming these algorithms on their own to solve various computational problems This book should also be useful for undergraduate and postgraduate students studying nature based optimization algorithms and can be a helpful tool for learning the basics of these algorithms efficiently and quickly 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 already has basic knowledge of swarm intelligence algorithms we recommend the book *Swarm Intelligence*

Algorithms Modifications and Applications Edited by A Slowik CRC Press 2020 which describes selected modifications of these algorithms and presents their practical applications **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

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