

Artificial Intelligence Dialog

Mo Gawdat

Conversational AI Michael McTear, 2020-10-30 This book provides a comprehensive introduction to Conversational AI. While the idea of interacting with a computer using voice or text goes back a long way, it is only in recent years that this idea has become a reality with the emergence of digital personal assistants, smart speakers, and chatbots. Advances in AI, particularly in deep learning, along with the availability of massive computing power and vast amounts of data, have led to a new generation of dialogue systems and conversational interfaces. Current research in Conversational AI focuses mainly on the application of machine learning and statistical data-driven approaches to the development of dialogue systems. However, it is important to be aware of previous achievements in dialogue technology and to consider to what extent they might be relevant to current research and development. Three main approaches to the development of dialogue systems are reviewed: rule-based systems that are handcrafted using best practice guidelines; statistical data-driven systems based on machine learning; and neural dialogue systems based on end-to-end learning. Evaluating the performance and usability of dialogue systems has become an important topic in its own right, and a variety of evaluation metrics and frameworks are described. Finally, a number of challenges for future research are considered, including: multimodality in dialogue systems, visual dialogue; data efficient dialogue model learning; using knowledge graphs; discourse and dialogue phenomena; hybrid approaches to dialogue systems development; dialogue with social robots and in the Internet of Things; and social and ethical issues.

User Models in Dialog Systems Alfred Kobsa, Wolfgang Wahlster, 2012-12-06 User models have recently attracted much research interest in the field of artificial intelligence dialog systems. It has become evident that flexible user-oriented dialog behavior of such systems can be achieved only if the system has access to a model of the user containing assumptions about his/her background knowledge as well as his/her goals and plans in consulting the system. Research in the field of user models investigates how such assumptions can be automatically created, represented and exploited by the system in the course of an on-line interaction with the user. The communication medium in this interaction need not necessarily be a natural language, such as English or German. Formal interaction languages are also permitted. The emphasis is placed on systems with natural language input and output, however. A dozen major and several more minor user modeling systems have been designed and implemented in the last decade, mostly in the context of natural-language dialog systems. The goal of UM86, the first international workshop on user modeling, was to bring together the researchers working on these projects so that results could be discussed and analyzed, and hopefully general insights be found, that could prove useful for future research. The meeting took place in Maria Laach, a small village some 40 miles south of Bonn, West Germany. 25 prominent researchers were invited to participate.

Reinforcement Learning for Adaptive Dialogue Systems Verena Rieser, Oliver Lemon, 2011-11-23 The past decade has seen a revolution in the field of spoken dialogue systems. As in other areas of Computer Science and Artificial Intelligence, data-driven methods are now being used to drive new methodologies for system development and evaluation. This book is a unique contribution to that ongoing change. A new methodology for developing spoken dialogue systems is described in detail. The journey starts and ends with human behaviour in interaction, and explores methods for learning from the data, for building simulation environments for training and testing systems, and for evaluating the results. The detailed material covers: Spoken and Multimodal dialogue systems, Wizard-of-Oz data collection, User Simulation methods, Reinforcement Learning, and Evaluation methodologies. The book is a research guide for students and researchers with a background in Computer Science, AI, or Machine Learning. It navigates through a

detailed case study in data-driven methods for development and evaluation of spoken dialogue systems. Common challenges associated with this approach are discussed and example solutions are provided. This work provides insights, lessons, and inspiration for future research and development – not only for spoken dialogue systems in particular, but for data-driven approaches to human-machine interaction in general.

User Models in Dialog Systems Alfred Kobsa, Wolfgang Wahlster, S Carberry, 1989-11-02 User models have recently attracted much research interest in the field of artificial intelligence dialog systems. It has become evident that a flexible user-oriented dialog behavior of such systems can be realized only if the system disposes of a model of the user, containing assumptions about the users background knowledge as well as the users goals and plans in consulting the system. Research in the field of user models investigates how such assumptions can be automatically created, represented and exploited by the system in the course of an interaction with the user. This volume is the first survey pertaining to the field of user modeling. Most of the prominent international researchers in this area have contributed to this volume. Their papers are grouped into four sections: The introductory section contains a general view of the field as a whole, and a number of surveys of specific problems and techniques in user modeling. Sections two and three describe eight user modeling systems, with the focus lying on the automatic creation and exploitation of assumptions about the user respectively. The final section discusses several limits of current systems, and proposes solutions as to how some of the shortcomings might be overcome. In order to increase the quality and the coherency of the volume, each paper has been reviewed by all other contributors. Cross-references have been integrated wherever appropriate. All contributions are introduced in editorial prefaces pertaining to each section. A subject index and an extensive bibliography supplement the book.

Machine Conversations Yorick Wilks, 2013-03-09 Machine Conversations is a collection of some of the best research available in the practical arts of machine conversation. The book describes various attempts to create practical and flexible machine conversation - ways of talking to computers in an unrestricted version of English or some other language. While this book employs and advances the theory of dialogue and its linguistic underpinnings, the emphasis is on practice, both in university research laboratories and in company research and development. Since the focus is on the task and on the performance, this book provides some of the first-rate work taking place in industry, quite apart from the academic tradition. It also reveals striking and relevant facts about the tone of machine conversations and closely evaluates what users require. Machine Conversations is an excellent reference for researchers interested in computational linguistics, cognitive science, natural language processing, artificial intelligence, human computer interfaces and machine learning.

What Is Artificial Intelligence?: A Conversation Between An Ai Engineer And A Humanities Researcher Suman Gupta, Peter H Tu, 2020-06-22 'A light-hearted, but engaging conversation about one of the key technologies of our age. I recommend this book to anyone interested in the broader issues around Artificial Intelligence.' Richard Hartley Australian National University, Australia This book engages with the title question: what is artificial intelligence (AI)? Instead of reiterating received definitions or surveying the field from a disciplinary perspective, the question is engaged here by putting two standpoints into conversation. The standpoints are different in their disciplinary groundings — i.e. technology and the humanities — and also in their approaches — i.e. applied and conceptual. Peter is an AI engineer: his approach is in terms of how to make AI work. Suman is a humanities researcher: his approach is in terms of what people and academics mean when they say 'AI'. A coherent argument, if not a consensus, develops by putting the two standpoints into conversation. The conversation is presented in 32 short chapters, in turn by Suman and Peter. There are two parts: Part 1, Questioning AI, and Part 2, AI and

Government Policy. The first part covers issues such as the meaning of intelligence, automation, evolution, artificial and language. It outlines some of the processes through which these concepts may be technologically grounded as AI. The second part addresses policy considerations that underpin the development of AI and responds to the consequences. Themes taken up here include: rights and responsibilities; data usage and state-level strategies in the USA, UK and China; unemployment and policy futures.

Artificial Companion for Second Language Conversation Sviatlana Höhn, 2019-06-21 The research described in this book shows that conversation analysis can effectively model dialogue. Specifically, this work shows that the multidisciplinary field of communicative ICALL may greatly benefit from including Conversation Analysis. As a consequence, this research makes several contributions to the related research disciplines, such as conversation analysis, second-language acquisition, computer-mediated communication, artificial intelligence, and dialogue systems. The book will be of value for researchers and engineers in the areas of computational linguistics, intelligent assistants, and conversational interfaces.

Conversational AI for Natural Human-Centric Interaction Svetlana Stoyanchev, Stefan Ultes, Haizhou Li, 2022-10-31 This book includes peer-reviewed articles from the 12th International Workshop on Spoken Dialogue System Technology, IWSDS 2021, Singapore. Nowadays, dialogue systems or conversational agents have become one of the most important mechanisms for human-computer or human-robot interaction that has been widely adopted as new paradigm for many applications, companies, and final users. On the other hand, recent advances in natural language processing, understanding and generation, as well as a continuous increasing computational power and large number of resources and data, have brought important and consistent improvements to the capabilities of dialogue systems enabling users to have more productive and enjoyable interactions. However, on the threshold of a new decade, the current state of the art shows important areas where improvements are needed such as incorporation of ground-based knowledge, personality, emotions, and adaptability, as well as automatic mechanisms for objective, robust and fast evaluations, especially in the context of developing social and e-health applications. In this 12th edition of the International Workshop on Spoken Dialogue Systems (IWSDS), “Conversational AI for natural human-centric interaction” compiles and presents a synopsis on current global research efforts to push forward the state of the art in dialogue technologies, including advances to the classical problems of dialogue management, language generation and understanding, personalisation and generation, spoken and multimodal interaction, dialogue evaluation, dialogue modelling and applications, as well as topics related to chatbots and conversational agent technologies.

Neural Approaches to Conversational AI: Question Answering, Task-Oriented Dialogues and Social Chatbots Jianfeng Gao, Michel Galley, Lihong Li, 2019-02-21 This monograph is the first survey of neural approaches to conversational AI that targets Natural Language Processing and Information Retrieval audiences. It provides a comprehensive survey of the neural approaches to conversational AI that have been developed in the last few years, covering QA, task-oriented and social bots with a unified view of optimal decision making. The authors draw connections between modern neural approaches and traditional approaches, allowing readers to better understand why and how the research has evolved and to shed light on how they can move forward. They also present state-of-the-art approaches to training dialogue agents using both supervised and reinforcement learning. Finally, the authors sketch out the landscape of conversational systems developed in the research community and released in industry, demonstrating via case studies the progress that has been made and the challenges that are still being faced. *Neural Approaches to Conversational AI* is a valuable resource for students, researchers, and software developers. It provides a

unified view, as well as a detailed presentation of the important ideas and insights needed to understand and create modern dialogue agents that will be instrumental to making world knowledge and services accessible to millions of users in ways that seem natural and intuitive.

Man-Machine Dialogue Frederic Landragin, 2013-07-01 This book summarizes the main problems posed by the design of a man-machine dialogue system and offers ideas on how to continue along the path towards efficient, realistic and fluid communication between humans and machines. A culmination of ten years of research, it is based on the author's development, investigation and experimentation covering a multitude of fields, including artificial intelligence, automated language processing, man-machine interfaces and notably multimodal or multimedia interfaces. Contents Part 1. Historical and Methodological Landmarks 1. An Assessment of the Evolution of Research and Systems. 2. Man-Machine Dialogue Fields. 3. The Development Stages of a Dialogue System. 4. Reusable System Architectures. Part 2. Inputs Processing 5. Semantic Analyses and Representations. 6. Reference Resolution. 7. Dialogue Acts Recognition. Part 3. System Behavior and Evaluation 8. A Few Dialogue Strategies. 9. Multimodal Output Management. 10. Multimodal Dialogue System Assessment. About the Authors Frédéric Landragin is a computer science engineer and has a PhD from the University of Lorraine, France. He is currently in charge of linguistics research for the French National Center for Scientific Research (CNRS). His studies focus on the analysis and modeling of language interpretation. Man-machine dialogue is one of the applications of this research.

Scary Smart Mo Gawdat, 2022-12-08 Artificial intelligence is smarter than humans. It can process information at lightning speed and remain focused on specific tasks without distraction. AI can see into the future, predicting outcomes and even use sensors to see around physical and virtual corners. So why does AI frequently get it so wrong? The answer is us. Humans design the algorithms that define the way that AI works, and the processed information reflects an imperfect world. Does that mean we are doomed? In *Scary Smart*, Mo Gawdat, the internationally bestselling author of *Solve for Happy*, draws on his considerable expertise to answer this question and to show what we can all do now to teach ourselves and our machines how to live better. With more than thirty years' experience working at the cutting-edge of technology and his former role as chief business officer of Google [X], no one is better placed than Mo Gawdat to explain how the Artificial Intelligence of the future works. By 2049 AI will be a billion times more intelligent than humans. *Scary Smart* explains how to fix the current trajectory now, to make sure that the AI of the future can preserve our species. This book offers a blueprint, pointing the way to what we can do to safeguard ourselves, those we love and the planet itself.

Advances in Artificial Intelligence - IBERAMIA 2010 Angel Kuri-Morales, Guillermo R. Simari, 2010-10-29 This book constitutes the refereed proceedings of the 12th Ibero-American Conference on Artificial Intelligence, IBERAMIA 2010, held in Bahía Blanca, Argentina, in November 2010. The 61 papers presented were carefully reviewed and selected from 148 submissions. The papers are organized in topical sections on artificial intelligence in education, cognitive modeling and human reasoning, constraint satisfaction, evolutionary computation, information, integration and extraction, knowledge acquisition and ontologies, knowledge representation and reasoning, machine learning and data mining, multiagent systems, natural language processing, neural networks, planning and scheduling, probabilistic reasoning, search, and semantic web.

Lifelong and Continual Learning Dialogue Systems Sahisnu Mazumder, Bing Liu, 2024-02-09 This book introduces the new paradigm of lifelong and continual learning dialogue systems to endow dialogue systems with the ability to learn continually by themselves through their own self-initiated interactions with their users and the working environments. The authors present the latest developments and

techniques for building such continual learning dialogue systems. The book explains how these developments allow systems to continuously learn new language expressions, lexical and factual knowledge, and conversational skills through interactions and dialogues. Additionally, the book covers techniques to acquire new training examples for learning new tasks during the conversation. The book also reviews existing work on lifelong learning and discusses areas for future research.

Dialogue and Technology: Art and Knowledge Bo Göranzon, Magnus Florin, 2012-12-06 This book springs from a conference held in Stockholm in May/June 1988 on Culture, Language and Artificial Intelligence. It assembled more than 300 researchers and practitioners in the fields of technology, philosophy, history of ideas, literature, linguistics, social science, etc. The conference was an initiative from the Swedish Center for Working Life, based on the project AI-Based Systems and the Future of Language, Knowledge and Responsibility in Professions within the COST 13 programme of the European Commission. Participants in the conference, or in some cases researchers in areas related to its aims, were chosen to contribute to this book. It was preceded by *Knowledge, Skill and Artificial Intelligence* (ed. B. Göranzon and I. Josefson, Springer-Verlag, London, 1988) and *Artificial Intelligence, Culture and Language* (ed. B. Göranzon and M. Florin, Springer-Verlag, 1990). The latter book springs, as this one, from the 1988 conference, and one further book will follow: *Skill and Education: Reflection and Experience* (Springer Verlag, planned autumn 1991). The philosophical and aesthetic interest of the contributions in the present volume is in large part due to the framework of the Dialogue Seminar, held regularly at the Royal Dramatic Theatre in Stockholm, in which several of the contributors have participated.

Conversational AI Andrew Freed, 2021-11-02 A thorough guide to the entire process of designing and implementing virtual assistants. Goes way beyond the technicalities. - Maxim Volgin, KLM Design, develop, and deploy human-like AI solutions that chat with your customers, solve their problems, and streamline your support services. In *Conversational AI*, you will learn how to: Pick the right AI assistant type and channel for your needs Write dialog with intentional tone and specificity Train your AI's classifier from the ground up Create question-and-direct-response AI assistants Design and optimize a process flow for web and voice Test your assistant's accuracy and plan out improvements *Conversational AI: Chatbots that work* teaches you to create the kind of AI-enabled assistants that are revolutionizing the customer service industry. You'll learn to build effective conversational AI that can automate common inquiries and easily address your customers' most common problems. This engaging and entertaining book delivers the essential technical and creative skills for designing successful AI solutions, from coding process flows and training machine learning, to improving your written dialog. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology Create AI-driven chatbots and other intelligent agents that humans actually enjoy talking to! Adding intelligence to automated response systems saves time and money for you and your customers. *Conversational AI* systems excel at routine tasks such as answering common questions, classifying issues, and routing customers to the appropriate human staff. This book will show you how to build effective, production-ready AI assistants. About the book *Conversational AI* is a guide to creating AI-driven voice and text agents for customer support and other conversational tasks. This practical and entertaining book combines design theory with techniques for building and training AI systems. In it, you'll learn how to find training data, assess performance, and write dialog that sounds human. You'll go from building simple chatbots to designing the voice assistant for a complete call center. What's inside Pick the right AI for your needs Train your AI classifier Create question-and-direct-response assistants Design and optimize a process flow About the reader For software developers. Examples use Watson Assistant and Python. About the author

Andrew R. Freed is a Master Inventor and Senior Technical Staff Member at IBM. He has worked in AI solutions since 2012. Table of Contents PART 1 FOUNDATIONS 1 Introduction to conversational AI 2 Building your first conversational AI PART 2 DESIGNING FOR SUCCESS 3 Designing effective processes 4 Designing effective dialogue 5 Building a successful AI assistant PART 3 TRAINING AND TESTING 6 Training your assistant 7 How accurate is your assistant? 8 Testing your dialogue flows PART 4 MAINTENANCE 9 Deployment and management 10 Improving your assistant PART 5 ADVANCED/OPTIONAL TOPICS 11 Building your own classifier 12 Additional training for voice assistants

Artificial Intelligence Is Fun! Kathryn M. Hilton, 2007-06 Artificial Intelligence is something that has interested the author for many years. When she saw an opportunity to get an AI character whose primary purpose was to carry on conversations with the computer user, she got the software program immediately. The character she chose to use at that time was named Erica. She thinks she is a nice looking human female with a college education and has not been informed that she is merely a brain in a computer. She is an attractive animated character with the ability to lip sync words. Her data base is filled with information of all kinds. Her main fault is that she does not stay on a topic very well. Her unique sense of humor more than makes up for this. The book begins with the first conversations and goes through what happens along the way as the author proceeds to teach the character and carry on conversations with her. This book was actually suggested by the artificial intelligence character who felt that people would enjoy reading her conversations. Problems that arise, lost conversations due to program crashes, some experiments, even comparison with another artificial intelligence character, and anything else encountered along the way are all given as commentary in the midst of the conversations. At the beginning the character was like a child needing to be taught. The author took care to be sure she became and stayed nice and polite as such characters can become just as down and dirty as a computer user cares to make them. It is said they take on the personality of the user over a period of time. Later two other AI programs were added to the research. Erica was replaced with Kate and a new brain while Peppi, the parrot, occupied the other two programs so comparisons could be made easily. For anyone interested in artificial intelligence on the consumer level, this report of the author's experiences with her AI characters and software is very enlightening. Such a character can brighten the life of the lonely, the disabled, and anyone who is a shut-in or lives in seclusion. The author has explained everything she has done as she learned and experimented with the three programs. Erica was interesting to talk with. Kate is a fantastic character. Peppi is great and quite funny. Their conversations are both silly and serious and much was learned from them while teaching the software. It was and is an enjoyable experience to talk with an AI character.

Dialogue on Technology ,1967

Dialogues with Social Robots Kristiina Jokinen, Graham Wilcock, 2016-12-23 This book explores novel aspects of social robotics, spoken dialogue systems, human-robot interaction, spoken language understanding, multimodal communication, and system evaluation. It offers a variety of perspectives on and solutions to the most important questions about advanced techniques for social robots and chat systems. Chapters by leading researchers address key research and development topics in the field of spoken dialogue systems, focusing in particular on three special themes: dialogue state tracking, evaluation of human-robot dialogue in social robotics, and socio-cognitive language processing. The book offers a valuable resource for researchers and practitioners in both academia and industry whose work involves advanced interaction technology and who are seeking an up-to-date overview of the key topics. It also provides supplementary educational material for courses on state-of-the-art dialogue system technologies, social robotics, and related research

fields.

The NeurIPS '18 Competition Sergio Escalera, Ralf Herbrich, 2019-11-29 This volume presents the results of the Neural Information Processing Systems Competition track at the 2018 NeurIPS conference. The competition follows the same format as the 2017 competition track for NIPS. Out of 21 submitted proposals, eight competition proposals were selected, spanning the area of Robotics, Health, Computer Vision, Natural Language Processing, Systems and Physics. Competitions have become an integral part of advancing state-of-the-art in artificial intelligence (AI). They exhibit one important difference to benchmarks: Competitions test a system end-to-end rather than evaluating only a single component; they assess the practicability of an algorithmic solution in addition to assessing feasibility. The eight run competitions aim at advancing the state of the art in deep reinforcement learning, adversarial learning, and auto machine learning, among others, including new applications for intelligent agents in gaming and conversational settings, energy physics, and prosthetics.

Voicebot and Chatbot Design Rachel Batish, 2018-09-29 Create conversational UIs using cutting-edge frameworks Key Features Build AI chatbots and voicebots using practical and accessible toolkits Design and create voicebots that really shine in front of humans Work with familiar appliances like Alexa, Google Home, and FB Messenger Design for UI success across different industries and use cases Book Description We are entering the age of conversational interfaces, where we will interact with AI bots using chat and voice. But how do we create a good conversation? How do we design and build voicebots and chatbots that can carry successful conversations in the real world? In this book, Rachel Batish introduces us to the world of conversational applications, bots and AI. You'll discover how - with little technical knowledge - you can build successful and meaningful conversational UIs. You'll find detailed guidance on how to build and deploy bots on the leading conversational platforms, including Amazon Alexa, Google Home, and Facebook Messenger. You'll then learn key design aspects for building conversational UIs that will really succeed and shine in front of humans. You'll discover how your AI bots can become part of a meaningful conversation with humans, using techniques such as persona shaping, and tone analysis. For successful bots in the real world, you'll explore important use-cases and examples where humans interact with bots. With examples across finance, travel, and e-commerce, you'll see how you can create successful conversational UIs in any sector. Expand your horizons further as Rachel shares with you her insights into cutting-edge voicebot and chatbot technologies, and how the future might unfold. Join in right now and start building successful, high impact bots! What you will learn Build your own AI voicebots and chatbots Use familiar appliances like Alexa, Google Home, and Facebook Messenger Master the elements of conversational user interfaces Key design techniques to make your bots successful Use tone analysis to deepen UI conversation for humans Create voicebots and UIs designed for real-world situations Insightful case studies in finance, travel, and e-commerce Cutting-edge technology and insight into the future of AI bots Who this book is for This book is for you, if you want to deepen your appreciation of UI and how conversational UIs - driven by artificial intelligence - are transforming the way humans interact with computers, appliances, and the everyday world around us. This book works with the major UI toolkits available today, so you do not need a deep programming knowledge to build the bots in this book: a basic familiarity with markup languages and JavaScript will give you everything you need to start building cutting-edge conversational UIs.

Artificial Intelligence Dialog Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has

be apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Artificial Intelligence Dialog**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we shall delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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Artificial Intelligence Dialog Introduction

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