

Oliver Lemon · Olivier Pietquin *Editors*

# Data-Driven Methods for Adaptive Spoken Dialogue Systems

Computational Learning for  
Conversational Interfaces

 Springer

# Data Driven Methods For Adaptive Spoken Dialogue Systems Computational Learning For Conversational Interfaces

**Jicheng Xie**

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## **Data Driven Methods For Adaptive Spoken Dialogue Systems Computational Learning For Conversational Interfaces:**

*Data-Driven Methods for Adaptive Spoken Dialogue Systems* Oliver Lemon, Olivier Pietquin, 2012-10-20 Data driven methods have long been used in Automatic Speech Recognition ASR and Text To Speech TTS synthesis and have more recently been introduced for dialogue management spoken language understanding and Natural Language Generation Machine learning is now present end to end in Spoken Dialogue Systems SDS However these techniques require data collection and annotation campaigns which can be time consuming and expensive as well as dataset expansion by simulation In this book we provide an overview of the current state of the field and of recent advances with a specific focus on adaptivity

**Data-Driven Methods for Adaptive Spoken Dialogue Systems** Oliver Lemon, Olivier Pietquin, 2012-10-21 Data driven methods have long been used in Automatic Speech Recognition ASR and Text To Speech TTS synthesis and have more recently been introduced for dialogue management spoken language understanding and Natural Language Generation Machine learning is now present end to end in Spoken Dialogue Systems SDS However these techniques require data collection and annotation campaigns which can be time consuming and expensive as well as dataset expansion by simulation In this book we provide an overview of the current state of the field and of recent advances with a specific focus on adaptivity

**The Conversational Interface** Michael McTear, Zoraida Callejas, David Griol, 2016-05-19 This book provides a comprehensive introduction to the conversational interface which is becoming the main mode of interaction with virtual personal assistants smart devices various types of wearable and social robots The book consists of four parts Part I presents the background to conversational interfaces examining past and present work on spoken language interaction with computers Part II covers the various technologies that are required to build a conversational interface along with practical chapters and exercises using open source tools Part III looks at interactions with smart devices wearables and robots and discusses the role of emotion and personality in the conversational interface Part IV examines methods for evaluating conversational interfaces and discusses future directions

Conversational AI Michael McTear, 2022-05-31 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      **Dynamic Neural Networks for Robot**

**Systems: Data-Driven and Model-Based Applications** Long Jin, Predrag S. Stanimirovic, Sendren Sheng-Dong Xu, 2024-07-24 Neural network control has been a research hotspot in academic fields due to the strong ability of computation One of its widely applied fields is robotics In recent years plenty of researchers have devised different types of dynamic neural network DNN to address complex control issues in robotics fields in reality Redundant manipulators are no doubt indispensable devices in industrial production There are various works on the redundancy resolution of redundant manipulators in performing a given task with the manipulator model information known However it becomes knotty for researchers to precisely control redundant manipulators with unknown model to complete a cyclic motion generation CMG task to some extent It is worthwhile to investigate the data driven scheme and the corresponding novel dynamic neural network DNN which exploits learning and control simultaneously Therefore it is of great significance to further research the special control features and solve challenging issues to improve control performance from several perspectives such as accuracy robustness and solving speed      *Big Data Management* Fausto Pedro García Márquez, Benjamin Lev, 2016-11-15 This book focuses on the analytic principles of business practice and big data Specifically it provides an interface between the main disciplines of engineering technology and the organizational and administrative aspects of management serving as a complement to books in other disciplines such as economics finance marketing and risk analysis The contributors present their areas of expertise together with essential case studies that illustrate the successful application of engineering management theories in real life examples      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

**Dialogue across Media** Jarmila Mildorf, Bronwen Thomas, 2017-01-19 With chapters on social media videogames and human machine communication Dialogue across Media provides a comprehensive overview of the role of dialogue in contemporary media Drawing on the expertise of scholars and practitioners from multiple fields and disciplines including screenwriters literary critics linguists and new media theorists each chapter provides an in depth analysis of dialogue in action Together these chapters demonstrate the unique energy and versatility that dialogic forms can offer artists and readers alike and the special role that dialogue plays in helping us to understand the complexities and contradictions of human interaction Dialogue across Media provides an essential resource for students and specialists in many fields concerned with dialogue including language and literature media and cultural studies narratology and rhetoric *PRIMA 2017: Principles and Practice of Multi-Agent Systems* Bo An, Ana Bazzan, João Leite, Serena Villata, Leendert van der Torre, 2017-10-23 This book constitutes the refereed proceedings of the 20th International Conference on Principles and Practice of Multi Agent Systems PRIMA 2017 held in Nice France in October November 2017 The 24 revised full papers presented together with one abstract of a keynote talk and 11 short papers were carefully reviewed and selected from 88 submissions The intention of the papers is to showcase research in several domains ranging from foundations of agent theory and engineering aspects of agent systems to emerging interdisciplinary areas of agent based research *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 *Future and Emerging Trends in Language Technology. Machine Learning and Big Data* José F Quesada, Francisco-Jesús Martín Mateos, Teresa López Soto, 2017-10-28 This book constitutes revised selected papers from the Second International Workshop on Future and Emerging Trends in Language Technology FETLT 2016 which took place in Seville Spain in November 2016 The 10 full papers and 5 position papers presented in this volume were carefully reviewed and selected from 18 submissions

In 2016 the conference focused on Machine Learning and Big Data      **Interaction Design for 3D User Interfaces** Francisco R. Ortega, Fatemeh Abyarjoo, Armando Barreto, Naphtali Rishe, Malek Adjouadi, 2016-01-06 This book addresses the new interaction modalities that are becoming possible with new devices by looking at user interfaces from an input perspective It deals with modern input devices and user interaction and design covering in depth theory advanced topics for noise reduction using Kalman Filters a case study and multiple chapters showing hands on approaches to relevant technology including modern devices such as the Leap Motion Xbox One Kinect inertial measurement units and multi touch technology It also discusses theories behind interaction and navigation past and current techniques and practical topics about input devices      **Towards Omnipresent and Smart Speech Assistants** Ingo Siegert, Stefan Hillmann, Benjamin Weiss, Jessica Martina Szczuka, Alexey Karpov, 2022-07-28      **Perception in Multimodal Dialogue Systems** Elisabeth André, Laila Dybkjær, Heiko Neumann, Roberto Pieraccini, Michael Weber, 2008-06-17 This book constitutes the refereed proceedings of the 4th IEEE Tutorial and Research Workshop on Perception and Interactive Technologies for Speech Based Systems PIT 2008 held in Kloster Irsee Germany in June 2008 The 37 revised full papers presented together with 1 invited keynote lecture were carefully selected from numerous submissions for inclusion in the book The papers are organized in topical sections on multimodal and spoken dialogue systems classification of dialogue acts and sound recognition of eye gaze head poses mimics and speech as well as combinations of modalities vocal emotion recognition human like and social dialogue systems and evaluation methods for multimodal dialogue systems      **Linguistics and Language Behavior Abstracts** , 2008

**EMERGING TRAJECTORIES IN LITERATURE AND LANGUAGE RESEARCH** DR. P. ATHAHAR, DR. S. MOHANKUMAR, DR. R. SRIGANESH, DR. K. SHAHEEN, DR. SURESH CHIMATA, This book titled Emerging Trajectories in Literature and Language Research offers a compelling exploration of how language connects people cultures and ideas across boundaries It sees language not just as a communication tool but as a reflection of who we are embodying our identities dreams thoughts language and cultural narratives The book is a collection of selected articles submitted as part of International Conference and Workshops on Language and Literature ICWLL 2025 which was organized by Department of English Foreign Languages Madanapalle Institute of Technology Science MITS on May 29 and 30 2025 As the fields of language and literature continually evolve this book brings together voices from diverse backgrounds to examine four key areas Language Teaching Exploring innovative methods that promote both fluency and cultural sensitivity in learners Literature Reflecting on literary works from classics to modern narratives and how they deepen our understanding of human experiences Cultural Studies Investigating how culture shapes language and literature highlighting the importance of intercultural perspectives Linguistics Diving into the structural and social dimensions of language to better understand its mechanics and evolution This book is a collection of passionate insights scholarly depth and a celebration of diversity in approach and thought Readers are invited on a thoughtful journey through change and discovery united by a common

passion for language and its transformative power

**Context in Computing** Patrick Brézillon, Avelino J.

Gonzalez, 2014-12-09 This volume explores how context has been and can be used in computing to model human behaviors actions and communications as well as to manage data and knowledge It addresses context management and exploitation of context for sharing experience across domains The book serves as a user centric guide for readers wishing to develop context based applications as well as an intellectual reference on the concept of context It provides a broad yet deep treatment of context in computing and related areas that depend heavily on computing The coverage is broad because of its cross disciplinary nature but treats topics at a sufficient depth to permit a reader to implement context in his her computational endeavors The volume addresses how context can be integrated in software and systems and how it can be used in a computing environment Furthermore the use of context to represent the human dimension individually as well as collectively is explained Contributions also include descriptions of how context has been represented in formal as well as non formal structured approaches The last section describes several human behavior representation paradigms based on the concept of context as its central representational element The depth and breadth of this content is certain to provide useful as well as intellectually enriching information to readers of diverse backgrounds who have an interest in or are intrigued by using context to assist in their representation of the real world *Science Abstracts*, 1995 **Index to IEEE Publications**

Institute of Electrical and Electronics Engineers, 1995 Issues for 1973 cover the entire IEEE technical literature [Towards Adaptive Spoken Dialog Systems](#) Alexander Schmitt, Wolfgang Minker, 2012-09-19 In Monitoring Adaptive Spoken Dialog Systems authors Alexander Schmitt and Wolfgang Minker investigate statistical approaches that allow for recognition of negative dialog patterns in Spoken Dialog Systems SDS The presented stochastic methods allow a flexible portable and accurate use Beginning with the foundations of machine learning and pattern recognition this monograph examines how frequently users show negative emotions in spoken dialog systems and develop novel approaches to speech based emotion recognition using hybrid approach to model emotions The authors make use of statistical methods based on acoustic linguistic and contextual features to examine the relationship between the interaction flow and the occurrence of emotions using non acted recordings several thousand real users from commercial and non commercial SDS Additionally the authors present novel statistical methods that spot problems within a dialog based on interaction patterns The approaches enable future SDS to offer more natural and robust interactions This work provides insights lessons and inspiration for future research and development not only for spoken dialog systems but for data driven approaches to human machine interaction in general

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