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this open access book provides a comprehensive overview of the state of the art in research and applications of foundation models and is intended for readers familiar with basic natural language processing nlp concepts over the recent years a revolutionary new paradigm has been developed for training models for nlp these models are first pre trained on large collections of text documents to acquire general syntactic knowledge and semantic information then they are fine tuned for specific tasks which they can often solve with superhuman accuracy when the models are large enough they can be instructed by prompts to solve new tasks without any fine tuning moreover they can be applied to a wide range of different media and problem domains ranging from image and video processing to robot control learning because they provide a blueprint for solving many tasks in artificial intelligence they have been called foundation models after a brief introduction to basic nlp models the main pre trained language models bert gpt and sequence to sequence transformer are described as well as the concepts of self attention and context sensitive embedding then different approaches to improving these models are discussed such as expanding the pre training criteria increasing the length of input texts or including extra knowledge an overview of the best performing models for about twenty application areas is then presented e g question answering translation story generation dialog systems generating images from text etc for each application area the strengths and weaknesses of current models are discussed and an outlook on further developments is given in addition links are provided to freely available program code a concluding chapter summarizes the economic opportunities mitigation of risks and potential developments of ai

the development of computer science is now so rapid that we the readers increasingly receive technology news about new solutions and applications which very often straddle the border between the real and the virtual worlds computer science is also the area in which cognitive science is witnessing a renaissance because its combination with technical sciences has given birth to a broad scientific discipline called cognitive informatics and it is this discipline which has become the main theme of this monograph which is also to serve as a kind of guide to cognitive informatics problems this book is the result of work on systems for the cognitive analysis and interpretation of various data the purpose of such an analytical approach is to show that for an in depth analysis of data the layers of semantics contained in these sets must be taken into account the interdisciplinary nature of the solutions proposed means that the subject of cognitive systems forming part of cognitive informatics becomes a new challenge for the research and application work carried out the authors of this monograph hope that it will guide readers on an interesting and accurate journey through the intricacies of information and cognitive science

the fifth generation computer project is a two part book consisting of the invited papers and the analysis the invited papers examine various aspects of the fifth generation computer project the analysis part assesses the major advances of the fifth generation computer project and provides a balanced analysis of the state of the art in the fifth

generation this part provides a balanced and comprehensive view of the development in fifth generation computer technology the bibliography compiles the most important published material on the subject of the fifth generation

this volume constitutes the proceedings of the 10th international conference on hybrid artificial intelligent systems hais 2015 held bilbao spain june 2014 the 60 papers published in this volume were carefully reviewed and selected from 190 submissions they are organized in topical sections such as data mining and knowledge discovery video and image analysis bio inspired models and evolutionary computation learning algorithms hybrid intelligent systems for data mining and applications classification and cluster analysis hais applications

this book constitutes the proceedings of the 14th international conference on intelligent tutoring systems ist 2018 held in montreal canada in june 2018 the 26 full papers and 22 short papers presented in this volume were carefully reviewed and selected from 120 submissions in the back matter of the volume 20 poster papers and 6 doctoral consortium papers are included they deal with the use of advanced computer technologies and interdisciplinary research for enabling supporting and enhancing human learning

this is the second of a two volume set ccis 434 and ccis 435 that constitutes the extended abstracts of the posters presented during the 16th international conference on human computer interaction hcii 2014 held in heraklion crete greece in june 2014 and consisting of 14 thematic conferences the total of 1476 papers and 220 posters presented at the hcii 2014 conferences were carefully reviewed and selected from 4766 submissions these papers address the latest research and development efforts and highlight the human aspects of design and use of computing systems the papers accepted for presentation thoroughly cover the entire field of human computer interaction addressing major advances in knowledge and effective use of computers in a variety of application areas the extended abstracts were carefully reviewed and selected for inclusion in this two volume set this volume contains posters extended abstracts addressing the following major topics social media and social networks learning and education design for all accessibility and assistive environments design for aging games and exergames health and well being ergonomics and safety hci in business tourism and transport human human and human agent communication user experience case studies

this book constitutes the thoroughly refereed proceedings of the 8th international workshop on computational processing of the portuguese language propor 2012 held in

coimbra portugal in april 2012 the 24 revised full papers and 23 revised short papers presented were carefully reviewed and selected from 86 submissions these papers cover the areas related to phonology morphology and pos tagging acquisition language resources linguistic description syntax and parsing semantics opinion analysis natural language processing applications speech production and phonetics speech resources speech processing and applications

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