1. Record Nr. UNINA9910464333803321

Autore	Okes Duke
Titolo	Performance metrics : the levers for process management / / Duke Okes ; Matt Meinholz, acquisitions editor ; Paul Daniel O'Mara, project editor
Pubbl/distr/stampa	Milwaukee, Wisconsin : , : ASQ Quality Press, , 2013 ©2013
ISBN	0-87389-898-2 0-87389-850-8
Descrizione fisica	1 online resource (128 p.)
Disciplina	658.4013
Soggetti	Performance - Evaluation Performance technology Organizational effectiveness - Evaluation Workflow - Management Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Sommario/riassunto	Which performance measures should you use? The obvious answer is that it depends on what you want to achieve, which someone else should never define for you. After all, it is your organization, your department, or your process. But once you are clear about what you want to accomplish, how do you sort through a variety of possible metrics and decide which are best? Then, given the list of metrics you believe are useful or necessary, how do you define them in more detail to ensure that the right data are gathered at the appropriate frequency and that the resulting information gets to the right p

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Autore	Paass Gerhard
Titolo	Foundation Models for Natural Language Processing [[electronic resource]] : Pre-trained Language Models Integrating Media / / by Gerhard Paass, Sven Giesselbach
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2023
ISBN	9783-031-23190-2
Edizione	[1st ed. 2023.]
Descrizione fisica	1 online resource (xviii, 448 pages)
Collana	Artificial Intelligence: Foundations, Theory, and Algorithms, , 2365-306X
Disciplina	006.35
Soggetti	Natural language processing (Computer science) Computational linguistics Artificial intelligence Expert systems (Computer science) Machine learning Natural Language Processing (NLP) Computational Linguistics Artificial Intelligence Knowledge Based Systems Machine Learning
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	1. Introduction -- 2. Pre-trained Language Models -- 3. Improving Pre-trained Language Models -- 4. Knowledge Acquired by Foundation Models -- 5. Foundation Models for Information Extraction -- 6. Foundation Models for Text Generation -- 7. Foundation Models for Speech, Images, Videos, and Control -- 8. Summary and Outlook.
Sommario/riassunto	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.