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   Collana   Studies in Computational Intelligence, , 1860-949X ; ; 742

   Disciplina   006.3

   Soggetti   Computational intelligence
                       Artificial intelligence
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   Lingua di pubblicazione   Inglese

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   Nota di contenuto   Co-occurrence Relation" and "Ingredient Category" Recommend
                       Alternative-ingredients -- Design and Initial Evaluation of Bluetooth
                       Low Energy Separate Channel Fingerprinting -- Toward Sustainable
                       Smart Mobility Information Infrastructure Platform -Project Overview-
                       -- Model-based methodology Establishing Traceability between
                       Requirements, Design and Operation Information in Lifecycle-Oriented
                       Architecture -- Sports game summarization based on sub-events and
                       game-changing phrases -- Headline Generation with Recurrent Neural
                       Network -- Customer State Analysis with Enthusiasm Analysis.

   Sommario/riassunto This book examines theoretical and practical aspects of emerging
                       technologies in e-service and artificial intelligence from an academic
                       and professional viewpoint. To do so, it focuses on three major areas:
                       the development of novel user support systems; development of smart
                       mobility; and emerging technologies in Artificial Intelligence (AI). With
                       regard to the development of novel user support systems, Chapter 1
                       introduces alternative ingredients recommendation using data on co-
                       occurrence relation and ingredients categories to support cooking,
                       while Chapter 2 introduces a study on location information inference
                       using data acquired by low-energy Bluetooth devices. Turning to the
                       development of smart mobility, Chapter 3 highlights a sustainable

information infrastructure project for smart mobility systems. In addition, Chapter 4 presents a lifecycle-oriented development process to improve requirements and design in terms of uncertainties to provide sustainable information architectures for smart mobility. In the book's third and last part – emerging technologies in AI – Chapter 5 presents a summarization task for sports events on Twitter, focusing on an abstractive approach based on sub-events during the sports event. Chapter 6 discusses the generation of headlines using a recurrent neural network based on a machine translation approach. Lastly, Chapter 7 explores customer behavior analysis using enthusiasm analysis, an approach that estimates customers' activation levels. The book gathers a selection of the highest-quality papers presented at the 4th International Congress on Advanced Applied Informatics, held on July 12–16, 2015 in Okayama, Japan. Given the breadth of its coverage, it offers a valuable resource for practitioners, researchers and students alike.