

## On Edge Human Action Recognition Using Radar-Based Sensing and Deep Learning

Christian Gianoglio , Member, IEEE, Ammar Mohanna , Ali Rizik , Laurence Moroney . and Maurizio Valle , Senior Member, IEEE

Abstract—In this article, we propose a radar-based human action recognition system, capable of recognizing actions in real time. Range-Doppler maps extracted from a low-cost frequency-modulated continuous wave (FMCW) radar are fed into a deep neural network. The system is deployed on an edge device. The results show that the system can recognize five human actions with an accuracy of 93.2% and an inference time of 2.95 s. Raising an alarm when a harmful action happens is a crucial feature in an indoor safety application. Thus, the performance during the binary classification, i.e., fall vs nonfall actions, is also assessed, achieving an accuracy of 96.8% with a falsenegative rate of 4%. To find the best tradeoff between accuracy and computational cost, the energy precision ratio of the system deployed on the edge is measured. The system achieves a 1.04 energy precision ratio value, where an ideal ratio would be close to zero.

Index Terms—Action recognition, deep neural networks (DNNs), edge deployment, frequency-modulated continuous wave (FMCW) radar.

#### I. INTRODUCTION

F ALLS are a major public health concern and the main cause of accidental death in the senior population worldwide. Timely and accurate detection permits immediate assistance after a fall and, thereby, reduces complications of fall risk [1]. Edge-based approaches are essential to support time-dependent healthcare applications [2].

Due to the advantages of portability, low cost, and availability, wearable devices are regarded as one of the key types of sensors

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All the codes and data used in the work are available on Citifub: https://github.com/cosmiclabunige/ActionRecognition.

Color versions of one or more figures in this article are available at https://doi.org/10.1109/Til.2023.3316164.

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for fall detection and have been widely studied [3], [4], [5], [6]. The main drawback of these systems is the battery life which can limit the usability of the wearable devices. The second drawback is that the monitored subjects must always wear them, causing obvious discomfort, especially for the elderly.

Vision-based fall detection is another prominent method. Extensive effort in this direction has been demonstrated, showing promising results [7], [8], [9]. Although cameras are not as portable as wearable devices, they offer other advantages that deem them as decent options depending on the scenario: most static RGB cameras are not intrusive and wired, hence there is no need to worry about battery limitations. One major drawback of vision-based detection is the potential violation of privacy due to the levels of detail that cameras can capture, such as personal information, appearance, and visuals of the living environment. The second drawback is the high sensibility to clutters and environmental conditions (e.g., smoke, light, etc.). In addition, a vision-based approach could introduce issues related to color bias [10].

Ambient sensors (e.g., ultrasonic, WiFi antennas, radars, etc.) provide another nonintrusive means of fall detection. Ambient sensing is drawing more attention which can be attributed to being device-free for users and can solve the problem of people's privacy and color bias. Ultrasonic sensor network systems are one of the solutions for fall detection [11]. One drawback is that the waves are affected by environmental factors, such as humidity and smoke. These would affect the accuracy of the measurement. In [12], a fall detection approach uses WiFi signals, showing promising results in detecting falls. This approach is susceptible to security threats and has a limited range of efficiency.

Radars have become popular in recent years, proving to be an effective sensor to recognize human actions in cluttered environments [13]. In [14] and [15], the human action recognition is performed by a machine learning (ML) algorithm trained on hand-crafted features extracted from the radar signals. The main drawback is the time and effort required for the processing of the data and the feature extraction operation. Some other works propose deep neural networks (DNNs) to automatically extract features for human action recognition and fall detection. In [16], stack autoencoders (AEs) are used to automatically extract the features from the gray-scale spectrogram and to classify four activities including the fall. In [17], the authors combine convolutional neural networks (CNNs) and AEs to classify 12 actions based on micro-Doppler signatures. In [18], two DNNs

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Human Rights Watch (Organization), Human Rights Watch Staff

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Blade runner H. W. Jeter, 19?? Blade runner 2 K. W. Jeter, 1996 Dental Image Processing for Human Identification Deven N. Trivedi, Nimit D. Shah, Ashish M. Kothari, Rohit M. Thanki, 2019-01-28 This book presents an approach to postmortem human identification using dental image processing based on dental features and characteristics and provides information on various identification systems based on dental features using image processing operations The book also provides information on a novel human identification approach that uses Infinite Symmetric Exponential Filter ISEF based edge detection and contouring algorithms Provides complete details on dental imaging Discusses the important features of a human identification approach and presents a brief review on DICOM standard for dental imaging Presents human identification approach based on dental features International Encyclopedia of Human Geography, 2019-11-29 International Encyclopedia of Human Geography Second Edition Fourteen Volume Set embraces diversity by design and captures the ways in which humans share places and view differences based on gender race nationality location and other factors in other words the things that make people and places different Questions of for example politics economics race relations and migration are introduced and discussed through a geographical lens This updated edition will assist readers in their research by providing factual information historical perspectives theoretical approaches reviews of literature and provocative topical discussions that will stimulate creative thinking Presents the most up to date and comprehensive coverage on the topic of human geography Contains extensive scope and depth of coverage Emphasizes how geographers interact with understand and contribute to problem solving in the contemporary world Places an emphasis on how geography is relevant in a social and interdisciplinary context To Kill Cow Means To End Human Civilization Dr. Sahadeva Das.2018-01-01 To Kill Cow Means To End Human Civilization Today we are treating other life forms just like inert objects as if they are devoid of any feelings whatsoever We are showing unprecedented cruelty and callousness towards the dumb creation of God with whom we share this planet Cruelty has been industrialized barbarism has been institutionalized Today the mistreatment of animals is phenomenal unprecedented in human history. The unspeakable treatment meted out to poor animals before they become our dinner will never go unpunished by the stringent laws of nature Human Anatomy ,1914

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Handbook of Research on Challenges for Human Resource Management in the COVID-19 Era Figueiredo, Paula Cristina Nunes, Tomé, Eduardo Luís de Campos Soares, Rouco, José Carlos Dias, 2022-06-10 The importance of people in

organizations has been growing in the organizational environment over the last decades Digital transformation artificial intelligence and sustainability have already reinforced the role of people as a differentiating element for the success and survival of organizations. These phenomena alone are already challenging for people There is a consensus that the world of work as we knew before the pandemic will not return Human resource management HRM practices must prepare organizations for the future of work The Handbook of Research on Challenges for Human Resource Management in the COVID 19 Era analyzes state of the art HRM in a digital transformation context and investigates the factors that promote more learning and development dynamics in organizational contexts. It also evaluates the impact of HRM policies on individuals organizations and societies Covering topics such as corporate social responsibility job satisfaction and electronic performance monitoring this major reference work is a crucial resource for leaders from public and private companies human resource professionals specialists students and educators of higher education researchers and academicians

Human Capital Management and Competitive Advantage in Tourism Silic, Mario, Luthia, Mahesh, Ahmad, Faizan, Chakraborty, Partha Pratim, 2025-06-12 Human capital management HCM plays a pivotal role in shaping competitive advantage within the tourism industry where service quality customer experience and innovation are key differentiators As tourism becomes competitive and globalized the ability to attract develop and retain skilled workers is essential for businesses Effective HCM strategies like investing in employee training fostering a positive organizational culture and leveraging technology for talent management can empower organizations to enhance service delivery improve operational efficiency and adapt to changing market demands In an industry where human interactions often define success creating a workforce that is not only skilled but also motivated and customer centric can be the difference between thriving and surviving The strategic management of human capital has become an integral part of achieving long term sustainability and growth in the tourism sector Human Capital Management and Competitive Advantage in Tourism explores the role of sustainable human capital management in developing a competitive advantage for the tourism sector It presents frameworks tools and approaches by integrating theory and practice to support human development in the sector through new technology and contemporary human development This book covers topics such as human capital talent management and digital technology and is a useful resource for business owners economists engineers academicians researchers and data Human Rights Watch World Report 2000 Human Rights Watch (Organization), Human Rights Watch scientists Staff,1999 Human rights watch world report 2001 events of 2000 **The New HR Analytics** Jac FITZ-ENZ,2010-05-12 Using Fitz enz s proprietary analytic model you will be equipped to measure and evaluate past and current returns and apply the information to make predictions about the future value of human capital investments In his landmark book The ROI of Human Capital Jac Fitz enz presented a system of powerful metrics for quantifying the contributions of individual employees to a company s bottom line Now in The New HR Analytics he reveals how human resources professionals can apply this

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Strengthening U.S. Air Force Human Capital Management National Academies of Sciences, Engineering, and Medicine, Division of Behavioral and Social Sciences and Education, Board on Human-Systems Integration, Committee on Strengthening U.S. Air Force Human Capital Management, 2021-03-02 The USAir Force human capital management HCM system is not easily defined or mapped It affects virtually every part of the Air Force because workforce policies procedures and processes impact all offices and organizations that include Airmen and responsibilities and relationships change regularly To ensure the readiness of Airmen to fulfill the mission of the Air Force strategic approaches are developed and issued through guidance and actions of the Office of the Deputy Chief of Staff for Manpower Personnel and Services and the Office of the Assistant Secretary of the Air Force for Manpower and Reserve Affairs Strengthening US Air Force Human Capital Management assesses and strengthens the various U S Air Force initiatives and programs working to improve person job match and human capital management in coordinated support of optimal mission capability. This report considers the opportunities and challenges associated with related interests and needs across the USAF HCM system as a whole and makes recommendations to inform improvements to USAF personnel selection and classification and other critical system components across career trajectories Strengthening US Air Force Human Capital Management offers the Air Force a strategic approach across a connected HCM system to develop 21st century human capital capabilities essential for the success of 21st century Airmen **Space, Time and the Limits of Human Understanding** Shyam Wuppuluri, Giancarlo Ghirardi, 2016-12-01 In this compendium of essays some of the world's leading thinkers discuss their conceptions of space and time as viewed through the lens of their own discipline With an epilogue on the limits of human understanding this volume hosts contributions from six or more diverse fields It presumes only rudimentary background knowledge on the part of the reader Time and again through the prism of intellect humans have tried to diffract reality into various distinct yet seamless atomic yet holistic independent yet interrelated disciplines and have attempted to study it contextually Philosophers debate the paradoxes or engage in meditations dialogues and reflections on the content and nature of space and time Physicists too have been trying to mold space and time to fit their notions concerning micro and macro worlds Mathematicians focus on the abstract aspects of space time and measurement While cognitive scientists ponder over the perceptual and experiential facets of our consciousness of space and time computer scientists theoretically and practically

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