

Nonverbal Communication Assistance System Based on Body Recognition in the Field of Education

Javier Fdez and Michita Inai

Abstract—Throughout this paper, a system able to provide support for the teacher on the nonverbal communication state of each one of the students is described. This system detects and classifies the facial expression and eye gaze of each student, generating a nonverbal state for each one of them. By using this information, the system is able to determine the classroom environment. It is also able to give suggestions to the teacher in the class so that his/her performance can improve. Furthermore, along with this publication, the different implementations that have been carried out and the first results obtained are described. Lastly, this paper discusses the performance of the system and any future work that may be carried out.

Index Terms—Body recognition, education, eye gaze, facial expression, nonverbal communication, robotics.

I. INTRODUCTION

Nonverbal communication is a key component of almost every field in which human interaction takes place. For example, being able to recognize the gestures and expressions of the other person may help us to express our thoughts or beliefs easily. The existence of this kind of communication has been well known throughout history, although its origin is attributed to Charles Darwin in 1982 [1]. According to Darwin, humans continue to make facial expressions because they have acquired communicative value throughout evolutionary history. In other words, humans utilize facial and body expressions as external evidence of their internal state. In [2] it is mentioned how in just one-tenth of a second it is possible to judge and make a first impression out of a situation by taking into account nonverbal cues.

Therefore, knowledge about this kind of communication is something that people wants to acquire as well as recognize due to the benefits that it provides when expressing and detecting emotions on a daily basis.

Due to the range of applications in which nonverbal communication is presented, the focus of this project will be in the field of education. The publications [3] or [4] are just two examples that show how important it is to study nonverbal communication in this field.

A. Objectives

Since the target problem is the loss of nonverbal communication in education, the main objective is to develop

a system able to improve the lecture by providing nonverbal communication assistance to the teacher.

This main objective comprises of four parts:

- 1) Describe the approach of how to study the nonverbal communication of students.
- 2) Develop a system able to use that information to give suggestions to the teacher.
- 3) Implement this system in different educational situations.
- 4) Discuss the benefits and drawbacks and propose future work to be implemented.

B. Related Works

Despite the fact that there are plethora studies related to nonverbal communication about education, the state of art of this paper focuses on particular scenarios.

Firstly, while it would be possible to study the nonverbal communication that the students can receive from the teacher, this research focuses on information that the teacher may acquire from the students.

Secondly, the implementation of this system focuses on two different situations. In the first one, the teacher is physically in the class whereas, in the second, he/she is not and the class is given by a robot teleoperated by the teacher. However, it is important to highlight the fact that in both cases the class is given by the teacher.

A third possible implementation is the distance learning telepresence. However, since the concept is similar to the first one explained above, it will not be mentioned explicitly but all the contributions mentioned can be also applied to this third one.

In [5], an ANN-based psychological profiling system that monitors multiple channels of facial cues to detect truthful and deceptive human behavioral patterns can potentially be adapted to other human states in different environments. In [6], a humanistic computer teaching system is presented. The core of this system is the effective interaction between teacher and student by creating an emotion-learning model based on theories in Psychology.

Nevertheless, this paper presents new contributions not considered in other papers. These contributions are presented in the next subchapter.

C. Main Contributions

This paper encompasses different ideas from previous works, but also proposes several novel contributions that distinguish this paper from previous ones. These main contributions are:

- Real-time nonverbal communication assistance for educational approaches.
- Classroom environment categorization depending on body recognition.

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Nonverbal Communication Research Paper

**Miles L. Patterson, Norah E.
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Nonverbal Communication David Matsumoto, Mark G. Frank, Hyi Sung Hwang, 2012-04-06 *Leading Scholars Blend Cutting Edge Science with Practical Experience to Reveal Evidence Based Best Practices* Edited by three leading authorities on nonverbal behavior, this book examines state of the art research and knowledge regarding nonverbal behavior and applies that scientific knowledge to a broad range of fields. The editors present a true scientist/practitioner model blending cutting edge behavioral science with real world practical experience, thus making this text the first of its kind to merge theoretical and practical worlds. This book is a valuable resource for students and professionals as it explores the science behind the practice and reveals how other professionals have effectively incorporated nonverbal communication into their fields. This book serves as an excellent text or supplement for courses/seminars in nonverbal behavior, nonverbal communication, human interaction, profiling, security management and homeland security, as well as courses in interviewing and qualitative analysis.

The Relationship of Verbal and Nonverbal Communication Mary Ritchie Key, 1980 *CONTRIBUTIONS TO THE SOCIOLOGY OF LANGUAGE* brings to students, researchers and practitioners in all of the social and language related sciences carefully selected book length publications dealing with sociolinguistic theory, methods, findings and applications. It approaches the study of language in society in its broadest sense as a truly international and interdisciplinary field in which various approaches, theoretical and empirical, supplement and complement each other. The series invites the attention of linguists, language teachers of all interests, sociologists, political scientists, anthropologists, historians, etc. to the development of the sociology of language. Cross-Cultural and Intercultural Communication William B. Gudykunst, 2003-04-18 This book has the chapters from the *Handbook of International and Intercultural Communication* Second Edition relating to the structure and growth of cross cultural and intercultural communication. With an expanded forward by William Gudykunst, it is an invaluable resource for students and lecturers of communications studies. **Nonverbal Communication** Stephen

Yoshimura, 2016-01-11 **Technical Report**, 2006 **Focus on Nonverbal Communication Research** Finley R. Lewis, 2007 Often defined as communication without words, non verbal communication (NVC) refers to all aspects of a message which are not conveyed by the literal meaning of words. Both written and spoken communication can be nonverbal. The main types of NVC are chronemics, kinesics, paralinguistics, proxemics and semiotics. Culture, gender and social status influence non verbal communication. NVC also includes object communication and haptics or touch. Paralinguistic mechanisms include

intonation stress rate of speech and pauses or hesitations non linguistic behaviours include gestures facial expressions and body language among others This book brings forth new and important research in this field *Nonverbal Communication* Judee K Burgoon,Valerie Manusov,Laura K. Guerrero,2016-01-08 Drawing significantly on both classic and contemporary research *Nonverbal Communication* speaks to today s students with modern examples that illustrate nonverbal communication in their lived experiences This new edition authored by three of the foremost scholars in nonverbal communication builds on the approach pioneered by Burgoon Buller and Woodall which focused on both the features and the functions that comprise the nonverbal signaling system Grounded in the latest multidisciplinary research and theory *Nonverbal Communication* strives to remain very practical providing both information and application to aid in comprehension Fundamentals of Verbal and Nonverbal Communication and the Biometric Issue Anna Esposito,NATO Programme for Security through Science,2007 The main theme of this publication is the fundamental features of verbal and nonverbal communication and their relationships with the identification of a person his her socio cultural background and personal traits The problem of understanding human behaviour in terms of personal traits and the possibility of an algorithmic implementation that exploits personal traits to identify a person unambiguously are among the great challenges of modern science and technology On the one hand there is the theoretical question of what makes each individual unique among all others that share similar traits and what makes a culture unique among various cultures On the other hand there is the technological need to be able to protect people from individual disturbance and dangerous behaviour that could damage an entire community interesting research areas is that related to human interaction and face to face communication It is in this context that knowledge is shared and personal traits acquire their significance **Advances and Obstacles in Contemporary Nonverbal Communication Research** Miles L. Patterson,Norah E. Dunbar,Marianne Schmid Mast,José-Miguel Fernández-Dols,2022-01-24 **Resources in Education** ,2001-04 The SAGE Handbook of Nonverbal Communication Valerie Manusov,Miles L. Patterson,2006-08-10 This Handbook provides an up to date discussion of the central issues in nonverbal communication and examines the research that informs these issues Editors Valerie Manusov and Miles Patterson bring together preeminent scholars from a range of disciplines to reveal the strength of nonverbal behavior as an integral part of communication Key Features Offers a comprehensive overview This book provides a single resource for learning about this valuable communication system It is structured into four sections foundations of nonverbal communication factors influencing nonverbal communication functions of nonverbal communication and important contexts and consequences of nonverbal communication Represents a wide range of expertise and issues The chapters in this book are written by contributing authors from across disciplines whose work focuses on nonverbal communication This interdisciplinary volume explores the points of dissention and cohesion in this large body of scholarship Examines the social impact of nonverbal communication Nonverbal communication is central to socially meaningful outcomes of communication

interactions across all relationship types This volume shows the importance of nonverbal cues to a range of important personal and social concerns and in a variety of social settings **Research in Education** ,1973 Verbal and Nonverbal Communication Behaviours Anna Esposito,Marcos Faundez-Zanuy,Eric Keller,Maria Marinaro,2007-10-06 This book constitutes the thoroughly refereed post proceedings of the COST Action 2102 International Workshop on Verbal and Nonverbal Communication Behaviours held in Vietri sul Mare Italy in March 2007 The twenty six revised full papers presented together with one introductory paper comprise carefully reviewed and selected participants contributions and invited lectures given at the workshop The papers are organized in topical sections Psychology Applied to Modern Life Wayne Weiten,2003 **1983 Mid-America Linguistics Conference Papers** David S. Rood,1984 **Spectra** ,1996

Nonverbal Communication Jonathan M. Bowman,2024-06-20 Nonverbal Communication An Applied Approach Second Edition teaches students the fundamentals of nonverbal communication in a way that helps them see the connections between the principles they learn and the everyday communication they perform and interpret Nonverbal Communication An Applied Approach has taken a narrative style and applied approach that is informed by the important theories and research driven knowledge of this interdisciplinary area of study This approach encourages students to understand the relevancy of nonverbal codes right away instead of waiting until the second half of the course to explore applications Author Jonathan Bowman also brings in a unique focus on diversity and social justice demonstrating how nonverbal communication shapes and molds how we interact in a diverse society The Second Edition includes updated examples a new Upgrade feature box examining the impact of digital experiences across the course of the lifespan and updated key terms guiding and closing questions citations photos and figures *A Review of Research on Teacher Behavior* A. LeVon Balzer,Thomas P. Evans,Patricia E. Blosser,1973

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