

# ***A Comparative study of Mentally Retarded Person's Expressions with an Normal Persons Expressions Using the Multimodal Emotion Recognition***

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**Abstract**— Emotion in mentally retarded people has been assumed to be no more than emotional disturbance and this has been equated with psychiatric disorder. Consideration of recent research and theory in emotion strongly suggests that there are two approaches which are particularly applicable to the study of mental retardation. In this paper, a comparative study of mentally retarded person's expressions like their facial expressions, speech and body gestures with normal persons. The model proposed in this approach is a multimodal emotion recognition using a Bayesian classifier, using a multimodal corpus with four emotions.

**Keywords**— *Affective body language, Affective speech, Emotion recognition, Multimodal fusion.*

## **I. INTRODUCTION**

One of the challenging issues is to endow a machine with an emotional intelligence. Emotionally intelligent systems must be able to create an affective interaction with users; they must be endowed with the ability to perceive, interpret, express and regulate emotions [1]. The recent research suggests that there are two approaches which are particularly applicable to the study of mental retardation. studies from the psychology show the need to consider the integration of different non-verbal behaviour modalities in the human-human communication [2].

In this paper, a comparative study of mentally retarded person's expressions with normal persons and a multimodal approach has been attempted to recognize emotions of mentally challenged person's from their facial expressions, speech and body gestures. The model proposed in this approach is using a Bayesian classifier, using a multimodal corpus with four emotions. In face feature extraction method, feature extraction is performed for eyes, eyebrows, mouths and nose using multi-cue approach. Feature masks generated for each facial feature are fused together to produce a final mask along with confidence level estimation. In speech feature extraction method, the set of features that contains features based on intensity, pitch, MFCC, Bark spectral bands, voiced segment characteristics and pause length.

The method is considered 32 features like maximum, mean and minimum values, sample moment, standard deviation and variance. In body feature extraction method, tracking of body and hands of the subjects is done using the EyesWeb platform. Starting from the silhouette and the hands of the actors, five main expressive motion cues using Eyes Web Expressive Gesture Processing Library is extracted. In order to compare the results of the unimodal and the multimodal systems, a common approach based on a Bayesian classifier (BayesNet) provided by the software Weka, a free toolbox containing a collection of machine learning algorithms for data mining tasks is used.

## **II. LITERATURE SURVEY**

A. "Multimodal Emotion Recognition in Speech-based Interaction Using Facial Expression, Body Gesture and Acoustic Analysis" by Loic Kessous, Ginevra Castellano and George Caridakis

In this paper, a study on multimodal automatic emotion recognition during a speech-based interaction is presented. A database was constructed consisting of people pronouncing a sentence in a scenario where they interacted with an agent using speech. The authors chooses Ten people, who pronounced a sentence corresponding to a command while making 8 different emotional expressions.

A multimodal approach for the recognition of eight acted emotional states (Anger, Despair, Interest, Pleasure, Sadness, Irritation, Joy and Pride) was presented. The approach integrates information from facial expressions, body gesture and speech. A model with a Bayesian classifier was trained and tested, using a multimodal corpus with ten subjects, collected during the Third Summer School of the UMAINE EU-IST project, held in Genova in September 2006.

The recording procedure was based on that of the GEMEP corpus [3], a multimodal collection of portrayed emotional expressions. Data on facial expressions, body movement and gestures and speech was simultaneously recorded. Ten participants from the summer school, distributed as evenly as possible concerning their gender, participated in the

# Emotional Disorders Of Mentally Retarded Persons

**Philip Davidson, Vee Prasher, Matthew  
Janicki**



## **Emotional Disorders Of Mentally Retarded Persons:**

Handbook of Mental Illness in the Mentally Retarded F.J. Menolascino, J.A. Stark, 2012-12-06 This volume aims to provide the reader with a contemporary account of his torical diagnostic treatment management including the individual and the service systems perspectives and training dimensions of mentally ill mentally retarded individuals from interdisciplinary perspectives Emphasis is placed on current and evolving aspects of this topic The broad scope of our approach is consistent with the concepts and practices that currently typify this topical area of clinical and research activity This volume is divided into five sections Part I deals with the definitional aspects the nature and incidence the historical aspects and a view of assessing the types of needs of mentally ill mentally retarded individuals Part II ad dresses the key issues in treatment intervention from an individual therapeutic aspect through vocational considerations as well as the role of the parents in these helping processes Part III focuses on systems of service delivery ranging from inpatient and day treatment models to the delivery of services in the home at all times the emphasis is on programs that have been successful Part IV presents a modern perspective on the multiple challenges in training both men tal health and mental retardation specialists as well as the critical dimension of providing a well trained cadre of paraprofessionals in both fields And finally Part V encompasses key current research perspectives as well as possible future directions for this rapidly growing area of professional interest and involve ment

**Working Bibliography on Behavioral and Emotional Disorders and Assessment Instruments in Mental Retardation** Michael G. Aman, 1991 *Habilitation Practices with the Developmentally Disabled who Present Behavioral and Emotional Disorders* Orv C. Karan, William I. Gardner, 1983 **Assessing Psychopathology and Behavior Problems in Persons with Mental Retardation** , 1994-02 A survey of the instruments and methods that are available for assessment of psychopathology and behavior problems in persons with mental retardation Instruments are described and evaluated from a methodological perspective **Mental Retardation and Mental Health** Jack A. Stark, Frank J.

Menolascino, Michael H. Albarelli, Vincent C. Gray, 2012-12-06 In late 1985 The President s Committee on Mental Retardation PCMR spon sored a National Strategy Conference on Mental Retardation and Mental Health in Washington D C The purpose of this conference was to bring together our nation s leadership in the fields of mental retardation and mental health in order to delineate the state of the art relative to the diagnosis care and treatment of citizens with mental retardation mental illness as well as to chart a national course for the support and integration of citizens with these challenging needs into the confluence of family and community life The President s Committee on Mental Retardation recognized that citizens with these needs constitute one of the most underserved and at times forgotten segments of the population With this in mind the PCMR called together govern mental professional and parental representatives from across the nation to define the nature and extent of the problem programs and services that promise hope for substantive improvement in the quality of life of citizens with mental retardation mental illness Treating Mental Illness and Behavior Disorders in Children and Adults

With Mental Retardation Anton Do en, Kenneth Day, 2008-08-13 Since the 1970s the development of normalization philosophy and the implementation of community care policies have highlighted the nature and treatment of psychiatric and behavior disorders in people with mental retardation and rekindled the interest of scientists psychiatric practitioners and service providers With these changes has grown a substantial body of new research and information on the phenomenology epidemiology classification and clinical features of mental illness and behavior disorders in mentally retarded persons In response to this growing interest and awareness the editors together with internationally renowned contributors from the United States and Europe have compiled the first comprehensive handbook of the current theory and practice of mental health treatment and care in mentally retarded children and adults Both contemporary and in depth this multidisciplinary multidimensional volume covers all available therapeutic methods including psychopharmacotherapy psychotherapy behavior therapies cognitive therapy and the systems approach for all the main diagnostic disorders in people with mental retardation Parts I and II present an overview of epidemiology and clinical presentation including research trends and therapeutic methods including psychotherapy psychopharmacology behavioral therapies cognitive and social learning treatments and working with families and caregivers Parts III and IV focus on psychotherapeutic interventions such as rational emotive group treatment with dually diagnosed adults pre therapy for persons with mental retardation who are also psychotic and systemic therapy and how to apply these methods to the treatment of specific mental illnesses such as schizophrenia epilepsy and mood and anxiety disorders Parts V and VI discuss how to treat behavior disorders such as aggression self aggression pharmacotherapy and strategic behavioral interventions and self injurious behaviors multimodal contextual approach including group therapy for sex offenders and a pedagogical approach to behavior problems and which treatment methods such as psychodynamically oriented psychotherapy and pharmacotherapy are most effective with children including developmental dynamic relationship therapy with more severely mentally retarded children Parts VII and VIII provide guidance on mental health services and staff training including psychiatric treatment in community care and a model for inpatient services for mentally ill persons with mental retardation and the editors final chapter which draws together all the various therapeutic approaches described in previous chapters to provide a practical framework for an integrative approach Filling a major gap in the literature this indispensable resource for psychiatrists psychologists and educators working with mentally retarded persons is also intended for general practitioners doctors social workers and therapists working in the same or related fields

**Comprehensive Handbook of Psychopathology** Henry E. Adams, 2013-12-18 The major purpose of this handbook is to provide a comprehensive review of current clinical descriptions research and theories of psychopathology Descriptive psychopathology is a field that is the foundation of clinical practice and research in clinical psychology psychiatry psychiatric social work psychiatric nursing and allied professions in mental health Psychopathology is often perceived as a stepchild of the more glamorous areas of diagnosis or assessment and therapy or behavioral change

Nevertheless it is doubtful that any meaningful advancements in these areas will occur until there is a thorough understanding of the behavioral disorders. The purpose of the present project was to devise a handbook that covered both general and specific topics in psychopathology and that would be useful to researchers, practitioners and graduate or other advanced students in the mental health professions. In order to implement this plan we selected very carefully colleagues whom we respect for their expertise in particular fields. These include both clinicians and researchers with outstanding national reputations as well as more junior behavioral scientists and clinicians who in our opinion will achieve similar recognition in the future. The chapters in this book lead us to believe that we have chosen wisely. We would like to express our appreciation to these authors for their outstanding contributions and cooperation.

**Mental Health in Mental Retardation** Nick Bouras, 1995-08-24. Dual diagnosis: current and evolving aspects of treatment and service provision are addressed by an interdisciplinary international team of professionals.

**Essentials of Global Mental Health** Samuel O. Okpaku, 2014-02-27. Mental illness accounts directly for 14% of the global burden of disease and significantly more indirectly. Recent reports recognise the need to expand and improve mental health delivery on a global basis, especially in low and middle income countries. This text defines an approach to mental healthcare focused on the provision of evidence-based, cost-effective treatments founded on the principles of sharing the best information about common problems and achieving international equity in coverage, options and outcomes. The coverage spans a diverse range of topics and defines five priority areas for the field. These embrace the domains of global advocacy, systems of development, research, progress, capacity building and monitoring. The book concludes by defining the steps to achieving equality of care globally. This is essential reading for policy makers, administrators, economists and mental health care professionals and those from the allied professions of sociology, anthropology, international politics and foreign policy.

**Brain Injury and Mental Retardation** C. Thomas Gualtieri, 2002. This authoritative resource is ideal for those caring for patients with traumatic brain injury (TBI) and mental retardation (MR) syndromes. The text is structured in an easy-to-follow format: five chapters on brain injury syndromes, five chapters on mental retardation syndromes, four chapters devoted to other neuropathic conditions that are common to both, and six chapters that feature the drugs and how to use them. The drug section is tailored to the psychiatric disorders relevant to these specific patient populations.

**Mental Health, Intellectual Disabilities and the Aging Process** Philip Davidson, Vee Prasher, Matthew Janicki, 2008-04-15. This book is the third in a series with the International Association for the Scientific Study of Intellectual Disabilities. Series Editor: Matthew P. Janicki. These publications are designed to address the issues of health, adult development and aging among persons with intellectual disabilities. For many years it has been recognized that some adults with intellectual disabilities are at elevated risk for mental and behavioral health problems. Often the aging process can complicate the identification, diagnosis, treatment and prevention of this type of dual diagnosis and present complex challenges to clinicians and carers. This book is designed as a practical resource for those involved with the

support care and treatment of persons with intellectual disabilities and should prove particularly useful as this community achieves increased longevity The book is divided into three parts Prevalence and Characteristics Diagnosis and Treatment and Service System Issues      **Emotional Disorders in Children and Adolescents** G. Pirooz Sholevar, Ronald M.

Benson, Barton J. Blinder, 2013-10-22 Emotional Disorders in Children and Adolescents states that individual psychotherapy is a nonspecific label It is done when two people interact in a prolonged series of emotionally charged encounters with the purpose of changing the behavior of the dyad The motives and dynamics of individual psychotherapy are explained in detail as well as the history of the approach The book discussed the concept of child psychoanalysis This section includes its historical background the similarities and differences between child and adult psychoanalysis the age of the child that should be treated and frequency of treatment The text also covers some techniques in the application of psychoanalysis A broad section of the volume is focused on the modification of the child's behavior as a type of treatment This chapter is followed by a section on the behavioral approaches in adolescent psychiatry The book will provide useful information to psychologist psychiatrist behavioral specialist students and researchers in the field of psychology      *Assessment of Behavior Problems in*

*Persons with Mental Retardation Living in the Community* Eleanor Dibble, David B. Gray, 1990      **Psychopharmacology**

**Bulletin**, 1985      International Handbook of Cognitive and Behavioural Treatments for Psychological Disorders V.E.

Caballo, 1998-11-27 This handbook shows the wide perspective cognitive behavioural treatment can offer to health professionals the vast majority of whom now recognize that cognitive behavioural procedures are very useful in treating many mental disorders even if certain disciplines continue to favour other kinds of treatment This book offers a wide range of structured programmes for the treatment of various psychological psychiatric disorders as classified by the DSM IV The layout will be familiar to the majority of health professionals in the description of mental disorders and their later treatment It is divided into seven sections covering anxiety disorders sexual disorders dissociative somatoform impulse control disorders emotional disorders and psychotic and organic disorders Throughout the twenty three chapters this book offers the health professional a structured guide with which to start tackling a whole series of mental disorders and offers pointers as to where to find more detailed information The programmes outlined should it is hoped prove more effective than previous approaches with lower economic costs and time investment for the patient and therapist      **Mental Retardation Research**

**Advances** Elizabeth B. Heinz, 2007 Mental retardation is a term for a pattern of persistently slow learning of basic motor and language skills milestones during childhood and a significantly below normal global intellectual capacity as an adult One common criterion for diagnosis of mental retardation is a tested intelligence quotient IQ of 70 or below This book presents

leading edge research from around the world      **Clearinghouse Review**, 1978      *Emotional Disorders of Mentally*

*Retarded Persons* Ludwik S. Szymanski, Peter E. Tanguay, 1980-01-01      Psychological Therapies for Adults with Intellectual

Disabilities John L. Taylor, William R. Lindsay, Richard P. Hastings, Chris Hatton, 2013-02-11 Psychological Therapies for

Adults with Intellectual Disabilities brings together contributions from leading proponents of psychological therapies for people with intellectual disabilities which offer key information on the nature and prevalence of psychological and mental health problems the delivery of treatment approaches and the effectiveness of treatment Offers a detailed guide to available therapies for adults with intellectual disabilities Includes case illustrations to demonstrate therapies in action Provides up to date coverage of current research in the field Puts forward a consideration of the wider contexts for psychological therapy including the relationship with social deprivation general health and the cost effectiveness of treatment Places individual interventions in the context of the person s immediate social network including families and carers Includes contributions from leading proponents from around the world

**Learning Disability** Gordon Grant,Paul Ramcharan,Margaret Flynn,Malcolm Richardson,2010-05-16 With its spread of chapters covering key issues across the life cycle this text has established itself as the foundational primer for those studying the lived experiences of people with learning disabilities and their families and outcomes achieved through services and support systems Recognising learning disability as a lifelong disability this accessible book is structured around the life cycle The second edition is refreshed and expanded to include seven new chapters covering Aetiology Breaking news about disability and early intervention Transition to adulthood The sexual lives of women Employment Personalisation People with hidden identities With contributions from respected figures from a range of disciplines the book draws heavily upon multidisciplinary perspectives and is based on the latest research and evidence for practice The text is informed by medical social and legal models of learning disability exploring how learning disability is produced reproduced and understood Extensive use is made of real life case studies designed to bring theory values policy and practice to life Narrative chapters describe in the words of people with learning disabilities themselves their lives and aspirations They helpfully show readers the kinds of roles played by families advocates and services in supporting people with learning disabilities New exercises and questions have been added to encourage discussion and reflection on practice Learning Disability is core reading for students entering health and social care professions to work with people with learning disabilities It is a compelling reference text for practitioners as it squarely addresses the challenges facing people with learning disability their loved ones and the people supporting them Contributors Dawn Adams Kathryn Almack Dorothy Atkinson Nigel Beail Christine Bigby Alison Brammer Jacqui Brewster Hilary Brown Jennifer Clegg Lesley Cogher Helen Combes Clare Connors Bronach Crawley Eric Emerson Margaret Flynn Linda Gething Dan Goodley Peter Goward Gordon Grant Chris Hatton Sheila Hollins Jane Hubert Kelley Johnson Gwynnyth Llewellyn Heather McAlister Michelle McCarthy Alex McClimens Roy McConkey David McConnell Keith McKinstrie Fiona Mackenzie Ghazala Mir Ada Montgomery Lesley Montisci Elizabeth Murphy Chris Oliver Richard Parrott Paul Ramcharan Malcolm Richardson Bronwyn Roberts Philippa Russell Kirsten Stalker Martin Stevens John Taylor Irene Tuffrey Wijne Sally Twist Jan Walmsley Kate Woodcock The editors and contributors are to be congratulated on the production of a relevant and

contemporary text that I have no hesitation in both endorsing and recommending to all involved in supporting and or caring for people with learning disabilities Professor Bob Gates Project Leader Learning Disabilities Workforce Development NHS Education South Central UK This is a seminal text for students and practitioners researchers and policy makers Associate Professor Keith R McVilly Deakin University Australia If I were to personally recommend any book for budding or current learning disability professionals then this would be it James Grainger Student Nurse Social Worker Sheffield Hallam University UK The book gives a true wealth of good practice scenarios that can only help practitioners be good at what they do and aspire to be Lee Marshall Student Nurse Sheffield Hallam University UK



## Unveiling the Magic of Words: A Report on "**Emotional Disorders Of Mentally Retarded Persons**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Emotional Disorders Of Mentally Retarded Persons**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

<http://www.pet-memorial-markers.com/files/virtual-library/HomePages/Gods%20Wisdom%20And%20Power%20Activity.pdf>

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## Emotional Disorders Of Mentally Retarded Persons Introduction

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