

Personality Detection using Handwriting Analysis: Review

Hemlata, Manoj Sachan, Shailendra Kumar Singh

Abstract— Handwriting is one of the unique characteristic to represent what is in our minds, to communicate with others. Handwriting shows the true personality including behaviour, emotional outlay, self-esteem, anger, imagination, honesty, fears, defences and many other personality traits. It is commonly known as Graphology. Graphology is the scientific method for recognizing, assessing and to understand writer's personality through the shapes and word patterns in the handwriting. Personality can be identified through various handwriting features such as zone, baseline, slant, size, spacing, margins, pressure etc. Handwriting analysis has wide application in the various fields such psychology, medical diagnosis, recruitment of staff, career counseling, writer identification, forensics studies etc. This paper provides an outline of handwriting analysis, features of handwriting, its related personality traits, overview of the handwriting analysis system (HAS) and a literature survey of the existing papers on handwriting analysis.

Keywords—handwriting, handwriting analysis, personality, handwriting features, graphology

1. Introduction

Handwriting analysis [1]-[3] is a scientific method for recognizing, assessing and to understand writer's personality through the shapes and word patterns in the handwriting. Handwriting shows the true personality of the writer including behaviour, emotional outlay, self-esteem, anger, imagination, fears, honesty and many other personality traits. It is commonly known as Graphology.

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Professional handwriting examiners who identify the personality through the handwriting samples are called graphologists. We can interpret the inner psychology and behaviour through the tone of voice (speech), facial expression, gestures, posture, and manner of dressing. Often, the external style mirrors the inward one. Handwriting is also one of the expressive ways that tells about your nature, psychology and behaviour of the writer.

Handwriting[1],[2] is unique to each individual. And it will be same and unique for a writer whether he/she has written with his/her foot, hand or mouth. Handwriting is written by the brain, not by the feet or hand. So, the handwriting is also called as brain writing. Each personality trait has neurological brain pattern in the human brain. Each neurological brain pattern design delivers one of a kind neuromuscular movement which is the same for each individual who has that specific personality trait. Each stroke or movement in handwriting reveals a particular personality trait. Graphology is the science which identifies these strokes in handwriting and describing the corresponding personality trait. Writer identification is used for various purposes for example, for security, monetary activity, forensic & utilizes as access control, analysis of handwriting documents can be used to judge the culprits in the criminal justice organizations.

Handwriting analysis or graphology has wide scopes in the fields such as recruitment, psychology, medical diagnosis, forensic, human-computer interaction. Handwriting represents the personality and behaviour of the humans so it can be used in recruitment and staff selection. The handwriting discloses many things about the writer such as a psychological problem, morality, hidden talents, health related problems, past experience etc.[5]. Handwriting analysis can be used to obtain an insight in to the psyche of the person. Handwriting serves as one of the diagnostic tool. The handwriting reveals the psychological and physiological conditions of the patient; hence it is used as a valuation tool in medical and psychological diagnosis.

Earlier handwriting analysis was done manually by spending a lot of time to predict the nature of the person. In manual analysis, accuracy of the analysis depends on the skills of the graphologist. The graphologist is also prone to fatigue when several samples are to be analyzed. For getting a well-experienced graphologist high cost is incurred. At the other hand automated handwriting analysis is very fast, accurate, very low-cost and convenient method in the prediction of human personality.

This paper mainly focuses on the handwriting analysis process to detect the personality of a person based on their handwritten documents. Section II describe the related works in field of handwriting analysis, section III explains the

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Analysis begins with the history of the field and then teaches you how to analyze any handwriting starting with objective criteria including variables such as organization speed size shape slant and symbolic features Then you learn how to combine these variables to create a full personality profile There are more than 100 handwriting samples including those from Paul Newman Bill Clinton Marlon Brando Donald Trump Sigmund and Anna Freud Thomas Edison Osama bin Laden Jacqueline Kennedy Bruce Springsteen Benito Mussolini Napoleon Michael Jackson Robert Redford Barak Obama and Charles Darwin Part II discusses how handwriting is organized by the brain and includes many examples of the link between handwriting and various illnesses and brain disorders from dyslexia and epilepsy to stroke and coma It ends with a discussion of the link between different personality types their brain organization and their handwriting Part III is an in depth look at the field of questioned documents including such topics as free hand forgeries tracing disguised handwriting and anonymous notes It features an in depth discussion of how forgeries are created and how they are detected If you are interested in any aspect of this topic *The Definitive Book of Handwriting Analysis* is definitely the book you need

Proceedings of International Conference on Recent Trends in Computing Rajendra Prasad Mahapatra, Sateesh K. Peddoju, Sudip Roy, Pritee Parwekar, 2023-03-20 This book is a collection of high quality peer reviewed research papers presented at International Conference on Recent Trends in Computing ICRTC 2022 held at SRM Institute of Science and Technology Ghaziabad Delhi India during 3-4 June 2022 The book discusses a wide variety of industrial engineering and scientific applications of the emerging techniques The book presents original works from researchers from academic and industry in the field of networking security big data and the Internet of things

Computer Vision and Image Processing Neeta Nain, Santosh Kumar Vipparthi, Balasubramanian Raman, 2020-03-28 This two volume set CCIS 1147 CCIS 1148 constitutes the refereed proceedings of the 4th International Conference on Computer Vision and Image Processing held in Jaipur India in September 2019 The 73 full papers and 10 short papers were carefully reviewed and selected from 202 submissions The papers are organized by the topical headings in two parts Part I Biometrics Computer Forensic Computer Vision Dimension Reduction Healthcare Information Systems Image Processing Image segmentation Information Retrieval Instance based learning Machine Learning Part II Neural Network Object Detection Object Recognition Online Handwriting Recognition Optical Character Recognition Security and Privacy Unsupervised Clustering

Proceedings of the Seventh International Conference on Mathematics and Computing Debasis Giri, Kim-Kwang Raymond Choo, Saminathan Ponnusamy, Weizhi Meng, Sedat Akleylek, Santi Prasad Maity, 2022-03-05 This book features selected papers from the 7th International Conference on Mathematics and Computing ICMC 2021 organized by Indian Institute of Engineering Science and Technology IIST Shibpur India during March 2021 It covers recent advances in the field of mathematics statistics and scientific computing The book presents innovative work by leading academics researchers and experts from industry

Computational Vision and Bio-Inspired Computing S. Smys, João Manuel R. S. Tavares, Valentina Emilia

Balas,Abdullah M. Iliyasu,2020-01-06 This proceedings book presents state of the art research innovations in computational vision and bio inspired techniques Due to the rapid advances in the emerging information communication and computing technologies the Internet of Things cloud and edge computing and artificial intelligence play a significant role in the computational vision context In recent years computational vision has contributed to enhancing the methods of controlling the operations in biological systems like ant colony optimization neural networks and immune systems Moreover the ability of computational vision to process a large number of data streams by implementing new computing paradigms has been demonstrated in numerous studies incorporating computational techniques in the emerging bio inspired models The book reveals the theoretical and practical aspects of bio inspired computing techniques like machine learning sensor based models evolutionary optimization and big data modeling and management that make use of effectual computing processes in the bio inspired systems As such it contributes to the novel research that focuses on developing bio inspired computing solutions for various domains such as human computer interaction image processing sensor based single processing recommender systems and facial recognition which play an indispensable part in smart agriculture smart city biomedical and business intelligence applications

Structural, Syntactic, and Statistical Pattern Recognition Adam Krzyzak,Ching Y. Suen,Andrea Torsello,Nicola Nobile,2023-01-01 This book constitutes the proceedings of the Joint IAPR International Workshop on Structural Syntactic and Statistical Pattern Recognition S SSPR 2022 held in Montreal QC Canada in August 2022 The 30 papers together with 2 invited talks presented in this volume were carefully reviewed and selected from 50 submissions The workshops presents papers on topics such as deep learning processing computer vision machine learning and pattern recognition and much more

Lightweight Digital Trust Architectures in the Internet of Medical Things (IoMT)

Hassan, Ahdi,Bhattacharya, Pronaya,Tikadar, Subrata,Dutta, Pushan Kumar,Sagayam, Martin,2024-05-17 In the field of healthcare technology the Internet of Medical Things IoMT stands at the forefront of progress revolutionizing patient care through advanced monitoring and treatment modalities However this digital transformation brings forth a new challenge the vulnerability of sensitive medical data to cyber threats Lightweight Digital Trust Architectures in the Internet of Medical Things IoMT examines ways to fortify IoMT against potential breaches through the exploration of these trust architectures Delving deep into data privacy technologies the book examines the implications of regulatory frameworks such as GDPR HIPAA and cybersecurity law It assesses traditional security methods and considers innovative approaches offering insights into certificate generation digital identification and the optimization of network protocols for secure data transmission Lightweight Digital Trust Architectures in the Internet of Medical Things IoMT illuminates the path forward for IoMT security Its objectives are multi faceted from unraveling the intricacies of the health chain to dissecting the role of lightweight cryptographic key agreement mechanisms in safeguarding medical data The book grapples with the challenges and advantages of implementing compact cryptographic techniques in healthcare particularly within the decentralized

framework of IoMT By exploring the potential of Federated Learning FL in bolstering privacy and improving healthcare outcomes the book aims to equip researchers healthcare professionals and IT experts with valuable knowledge Through real world case studies it endeavors to pave the way for a future where security and efficiency seamlessly integrate in IoMT

AI-Driven Innovation in Healthcare Data Analytics Özgür Polat, Leyla Polat, Olcay, 2024-11-27 As the healthcare industry continues to rely on data to enhance patient outcomes and streamline operations artificial intelligence AI becomes a powerful tool for complex dataset analysis using improved speed and accuracy From predictive modeling in disease outbreak management to personalized treatment plans for individual patient profiles AI technologies are reshaping clinical decision making and resource allocation Harnessing the potential of machine learning and advanced analytics may allow healthcare providers to uncover insights that drive innovation improve patient care and optimize operational efficiency AI Driven Innovation in Healthcare Data Analytics explores the intersection of AI and healthcare data analytics It examines the application of AI driven techniques including machine learning deep learning and data mining in addressing complex challenges in healthcare management This book covers topics such as data science medical diagnosis and patient care and is a useful resource for healthcare professionals data scientists computer engineers business owners academicians and researchers

Multifaceted approaches for Data Acquisition, Processing & Communication Chinmay Chakraborty, Manisha Guduri, B Sandhya, K Shyamala, 2024-06-24 The objective of the conference is to bring to focus the recent technological advancements across all the stages of data analysis including acquisition processing and communication Advancements in acquisition sensors along with improved storage and computational capabilities have stimulated the progress in theoretical studies and state of the art real time applications involving large volumes of data This compels researchers to investigate the new challenges encountered where traditional approaches are incapable of dealing with large complicated new forms of data

Quantifying and Processing Biomedical and Behavioral Signals Anna Esposito, Marcos Faundez-Zanuy, Francesco Carlo Morabito, Eros Pasero, 2018-08-17 The book is based on interdisciplinary research on various aspects and dynamics of human multimodal signal exchanges It discusses realistic application scenarios where human interaction is the focus in order to identify new methods for data processing and data flow coordination through synchronization and optimization of new encoding features combining contextually enacted communicative signals and develop shared digital data repositories and annotation standards for benchmarking the algorithmic feasibility and successive implementation of believable human computer interaction HCI systems This book is a valuable resource for the research community PhD students early stage researchers c schools hospitals and rehabilitation and assisted living centers e the ICT market and representatives from multimedia industries

Biomedical Engineering Science and Technology Bikesh Kumar Singh, G.R. Sinha, Rishikesh Pandey, 2024-03-14 This CCIS post conference volume constitutes the proceedings of the Second International Conference ICBEST 2023 in Raipur India in February 2023 The 32 full papers together in this

volume were carefully reviewed and selected from 60 submissions The conference s fundamental theme was Computing in Biomedical Research They were organized in three tracks as follows Artificial Intelligence in Healthcare Computational Mechanics in Healthcare and Health Informatics Holistic Healthcare Anne George,Snigdha S. Babu,M. P. Ajithkumar,Sabu Thomas,2019-04-26 Here is an insightful compilation of contributions from scientists healthcare experts and doctors working actively to bring about wholesome healing to individuals looking at cuttingedge holistic therapies It includes chapters that deal with improving the general health of people from various walks of life to treating some very challenging diseases Various schools of treatments exercise regimes and meditations are discussed Specific topics include the use of alternative therapy for human health and healing including yoga meditation acupuncture prayer herbs Ayurvedic treatment and homoeopathy The volume showcases some recent trends in treating various diseases that plague mankind including superbugs drug sideeffects drug abuse and myriad lifestyle related diseases and syndromes Proceedings of International Conference on Wireless Communication Hari Vasudevan,Amit A. Deshmukh,K. P. Ray,2018-04-20 The volume comprises best selected papers presented at International Conference on Wireless Communication ICWiCOM which is organized by Department of Electronics and Telecommunication Engineering of D J Sanghvi College of Engineering The volume focusses on narrowed topics of wireless communication like signal and image processing applicable to wireless domain networking microwave and antenna designs tele medicine systems etc The papers are divided into three main domains like networking antenna designs and embedded systems applicable to the communication domain The content will be helpful for Post Graduate and Doctoral students in their research **AI*IA 2019 - Advances in Artificial Intelligence** Mario Alviano,Gianluigi Greco,Francesco Scarcello,2019-11-16 This book constitutes the proceedings of the XVIIIth International Conference of the Italian Association for Artificial Intelligence AI IA 2019 held in Rende Italy in November 2019 The 41 full papers were carefully reviewed and selected from 67 submissions The papers have been organized in the following topical sections Knowledge Representation for AI AI and Computation Machine Learning for AI and AI and Humans **Pattern Recognition** Apostolos Antonacopoulos,Subhasis Chaudhuri,Rama Chellappa,Cheng-Lin Liu,Saumik Bhattacharya,Umapada Pal,2024-12-02 The multi volume set of LNCS books with volume numbers 15301 15333 constitutes the refereed proceedings of the 27th International Conference on Pattern Recognition ICPR 2024 held in Kolkata India during December 1 5 2024 The 963 papers presented in these proceedings were carefully reviewed and selected from a total of 2106 submissions They deal with topics such as Pattern Recognition Artificial Intelligence Machine Learning Computer Vision Robot Vision Machine Vision Image Processing Speech Processing Signal Processing Video Processing Biometrics Human Computer Interaction HCI Document Analysis Document Recognition Biomedical Imaging Bioinformatics *Ubiquitous Intelligent Systems* P. Karuppusamy,Isidoros Perikos,Fausto Pedro García Márquez,2021-10-08 This book features a collection of high quality peer reviewed papers presented at International Conference on Ubiquitous Intelligent Systems ICUIS 2021 organized by Shree

Venkateshwara Hi Tech Engineering College Tamil Nadu India during April 16 17 2021 The book covers topics such as cloud computing mobile computing and networks embedded computing frameworks modeling and analysis of ubiquitous information systems communication networking models big data models and applications ubiquitous information processing systems next generation ubiquitous networks and protocols advanced intelligent systems Internet of things wireless communication and storage networks intelligent information retrieval techniques AI based intelligent information visualization techniques cognitive informatics smart automation systems healthcare informatics and bioinformatics models security and privacy of intelligent information systems and smart distributed information systems

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