



OPEN A novel method for Pu-erh tea face traceability identification based on improved MobileNetV3 and triplet loss

Zhe Zhang^{1,2,3}, Xinting Yang^{1,2,3}, Na Luo^{1,3}, Feng Chen^{1,3}, Helong Yu^{2,4,5} & Chuanheng Sun^{1,3,4,6}

Ensuring the traceability of Pu-erh tea products is crucial in the production and sale of tea, as it is a key means to ensure their quality and safety. The common approach used in traceability systems is the utilization of bound Quick Response (QR) codes or Near Field Communication (NFC) chips to track every link in the supply chain. However, counterfeiting risks still persist, as QR codes or NFC chips can be copied and inexpensive products can be fitted into the original packaging. To address this issue, this paper proposes a tea face verification model called TeaFaceNet for traceability verification. The aim of this model is to improve the traceability of Pu-erh tea products by quickly identifying counterfeit products and enhancing the credibility of Pu-erh tea. The proposed method utilizes an improved MobileNetV3 combined with Triplet Loss to verify the similarity between two input tea face images with different texture features. The recognition accuracy of the raw tea face dataset, ripe tea face dataset and mixed tea face dataset of the TeaFaceNet network were 97.58%, 98.08% and 98.20%, respectively. Accurate verification of tea face was achieved using the optimal threshold. In conclusion, the proposed TeaFaceNet model presents a promising approach to enhance the traceability of Pu-erh tea products and combat counterfeit products. The robustness and generalization ability of the model, as evidenced by the experimental results, highlights its potential for improving the accuracy of Pu-erh tea face recognition and enhancing the credibility of Pu-erh tea in the market. Further research in this area is warranted to advance the traceability of Pu-erh tea products and ensure their quality and safety.

Abbreviations

AUC	Area under roc curve
CBAM	Convolutional block attention module
CNNs	Convolutional neural networks
ECA	Efficient channel attention
NFC	Near field communication
QR	Quick response
ROC	Receiver operating characteristic
SAM	Spatial attention module
SE	Squeeze-and-excitation
TF-Bottleneck	TeaFaceNet bottleneck

Pu-erh tea is a highly distinctive tea product in Yunnan Province, China. The quality of Pu-erh tea is affected by packaging, production, processing, and storage. Different regions, varieties, and processing techniques result in different values for Pu-erh tea¹. Pu-erh tea can be classified into Pu-erh raw tea and Pu-erh ripe tea based on processing technology². Furthermore, the finished Pu-erh tea can be left as loose leaves or compressed into cakes or bricks to facilitate transportation and storage³. Typically, the longer the Pu-erh tea is stored, the higher the

¹National Engineering Research Center for Information Technology in Agriculture, Beijing 100097, China. ²College of Information Technology, Jilin Agricultural University, Changchun 130118, China. ³National Engineering Laboratory for Agri-Product Quality Traceability, Beijing 100097, China. ⁴These authors contributed equally: Helong Yu and Chuanheng Sun. ⁵email: yuhelong@jiau.edu.cn; sunch@nercita.org.cn

Method For The Identification Of Pu Volume

Michael Scheffler, Paolo Colombo



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Disposal of Weapon Plutonium E.R. Merz, Carl E. Walter, 1995-12-31 This NATO Advanced Research Workshop on Disposal of Weapons Plutonium is a follow up event to two preceding workshops each dealing with a special subject within the overall disarmament issue Disposition of Weapon Plutonium sponsored by the NATO Science Committee The first workshop of this series was held at the Royal Institute of International Affairs in London on 24 25 January 1994 entitled Managing the Plutonium Surplus Applications and Options Its over all goal was to clarify the current situation with respect to plutonium characteristics and availability the technical options for use or disposal and their main technical environmental and economic constraints In the immediate term plutonium recovered from dismantled nuclear warheads will have to be stored securely and under international safeguards if possible In the intermediate term the principal alternatives for disposition of this plutonium are irradiation in mixed oxide MOX fuel assemblies in existing commercial light water reactors or in specially adapted light water reactors capable of operation with full cores of MOX fuel and irradiation in future fast reactors Another option is to blend plutonium with high level waste as it is vitrified for final disposal in a geologic repository In both cases the high radioactivity of the resulting products provides self shielding and prevents separation of plutonium without already developed and available sophisticated technology The so called spent fuel standard as an effective protection barrier is required in either case The Chemistry of the Actinide and Transactinide Elements (3rd ed., Volumes 1-5) L.R.

Morss, Norman M. Edelstein, Jean Fuger, 2007-12-31 The Chemistry of the Actinide and Transactinide Elements is a contemporary and definitive compilation of chemical properties of all of the actinide elements especially of the technologically important elements uranium and plutonium as well as the transactinide elements In addition to the comprehensive treatment of the chemical properties of each element ion and compound from atomic number 89 actinium through to 109 meitnerium this multi volume work has specialized and definitive chapters on electronic theory optical and laser fluorescence spectroscopy X ray absorption spectroscopy organoactinide chemistry thermodynamics magnetic properties the metals coordination chemistry separations and trace analysis Several chapters deal with environmental science safe handling and biological interactions of the actinide elements The Editors invited teams of authors who are active practitioners and recognized experts in their specialty to write each chapter and have endeavoured to provide a balanced and insightful treatment of these fascinating elements at the frontier of the periodic table Because the field has expanded with new spectroscopic techniques and environmental focus the work encompasses five volumes each of which groups chapters on related topics All chapters represent the current state of research in the chemistry of these elements and related fields

Power Plants and Power Systems Control 2003 Kwang Y Lee, Myong-Chul Shin, 2004-04 Approx 422 pages Handbook of Food Analysis - Two Volume Set Leo M.L. Nollet, Fidel Toldra, 2015-06-10 Updated to reflect changes in the industry during the last ten years The Handbook of Food Analysis Third Edition covers the new analysis systems optimization of existing

techniques and automation and miniaturization methods Under the editorial guidance of food science pioneer Leo M L Nollet and new editor Fidel Toldra the chapters take an in The Chemistry of the Actinide and Transactinide Elements (Set Vol.1-6) L.R. Morss,Norman M. Edelstein,Jean Fuger,2010-10-21 The fourth edition of The Chemistry of the Actinide and Transactinide Elements comprises all chapters in volumes 1 through 5 of the third edition published in 2006 plus a new volume 6 To remain consistent with the plan of the first edition to provide a comprehensive and uniform treatment of the chemistry of the actinide and transactinide elements for both the nuclear technologist and the inorganic and physical chemist and to be consistent with the maturity of the field the fourth edition is organized in three parts The first group of chapters follows the format of the first and second editions with chapters on individual elements or groups of elements that describe and interpret their chemical properties A chapter on the chemical properties of the transactinide elements follows The second group chapters 15 26 summarizes and correlates physical and chemical properties that are in general unique to the actinide elements because most of these elements contain partially filled shells of 5f electrons whether present as isolated atoms or ions as metals as compounds or as ions in solution The third group chapters 27 39 focuses on specialized topics that encompass contemporary fields related to actinides in the environment in the human body and in storage or wastes Two appendices at the end of volume 5 tabulate important nuclear properties of all actinide and transactinide isotopes Volume 6 Chapters 32 through 39 consists of new chapters that focus on actinide species in the environment actinide waste forms nuclear fuels analytical chemistry of plutonium actinide chalcogenide and hydrothermal synthesis of actinide compounds The subject and author indices and list of contributors encompass all six volumes **Analytical Methods in Petroleum**

Upstream Applications Cesar Ovalles,Carl E. Rechsteiner Jr.,2015-04-02 Effective measurement of the composition and properties of petroleum is essential for its exploration production and refining however new technologies and methodologies are not adequately documented in much of the current literature Analytical Methods in Petroleum Upstream Applications explores advances in the analytical methods and instrumentation that allow more accurate determination of the components classes of compounds properties and features of petroleum and its fractions Recognized experts explore a host of topics including A petroleum molecular composition continuity model as a context for other analytical measurements A modern modular sampling system for use in the lab or the process area to collect and control samples for subsequent analysis The importance of oil in water measurements and monitoring The chemical and physical properties of heavy oils their fractions and products from their upgrading Analytical measurements using gas chromatography and nuclear magnetic resonance NMR applications Asphaltene and heavy ends analysis Chemometrics and modeling approaches for understanding petroleum composition and properties to improve upstream midstream and downstream operations Due to the renaissance of gas and oil production in North America interest has grown in analytical methods for a wide range of applications The understanding provided in this text is designed to help chemists geologists and chemical and petroleum engineers make more accurate

estimates of the crude value to specific refinery configurations providing insight into optimum development and extraction schemes

Finite Volumes for Complex Applications VII-Methods and Theoretical Aspects Jürgen Fuhrmann, Mario Ohlberger, Christian Rohde, 2014-05-12 The first volume of the proceedings of the 7th conference on Finite Volumes for Complex Applications Berlin June 2014 covers topics that include convergence and stability analysis as well as investigations of these methods from the point of view of compatibility with physical principles It collects together the focused invited papers as well as the reviewed contributions from internationally leading researchers in the field of analysis of finite volume and related methods Altogether a rather comprehensive overview is given of the state of the art in the field The finite volume method in its various forms is a space discretization technique for partial differential equations based on the fundamental physical principle of conservation Recent decades have brought significant success in the theoretical understanding of the method Many finite volume methods preserve further qualitative or asymptotic properties including maximum principles dissipativity monotone decay of free energy and asymptotic stability Due to these properties finite volume methods belong to the wider class of compatible discretization methods which preserve qualitative properties of continuous problems at the discrete level This structural approach to the discretization of partial differential equations becomes particularly important for multiphysics and multiscale applications Researchers PhD and masters level students in numerical analysis scientific computing and related fields such as partial differential equations will find this volume useful as will engineers working in numerical modeling and simulations

Cellular Ceramics Michael Scheffler, Paolo Colombo, 2006-05-12 Cellular ceramics are a specific class of porous materials which includes among others foams honeycombs connected fibers robocast structures and assembled hollow spheres Because of their particular structure cellular ceramics display a wide variety of specific properties which make them indispensable for various engineering applications An increasing number of patents scientific literature and international conferences devoted to cellular materials testifies to a rapidly growing interest of the technical community in this topic New applications for cellular ceramics are constantly being put under development The book authored by leading experts in this emerging field gives an overview of the main aspects related to the processing of diverse cellular ceramic structures methods of structural and properties characterisation and well established industrial novel and potential applications It is an introduction to newcomers in this research area and allows students to obtain an in depth knowledge of basic and practical aspects of this fascinating class of advanced materials

Radiochemistry and Nuclear Chemistry - Volume II Sandor Nagy, 2009-08-24 Radiochemistry and Nuclear Chemistry theme is a component of Encyclopedia of Chemical Sciences Engineering and Technology Resources in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias The content of the Theme on Radiochemistry and Nuclear Chemistry provides the essential aspects and a myriad of issues of great relevance to our world such as Isotope Effects Isotope Separation and Isotope Fractionation Radiometric Dating and Tracing Radiochemical

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Wollack, 2016-10-26 The rising reliance on testing in American education and for licensure and certification has been accompanied by an escalation in cheating on tests at all levels Edited by two of the foremost experts on the subject the Handbook of Quantitative Methods for Detecting Cheating on Tests offers a comprehensive compendium of increasingly sophisticated data forensics used to investigate whether or not cheating has occurred Written for practitioners testing professionals and scholars in testing measurement and assessment this volume builds on the claim that statistical evidence often requires less of an inferential leap to conclude that cheating has taken place than do other more common sources of evidence This handbook is organized into sections that roughly correspond to the kinds of threats to fair testing represented by different forms of cheating In Section I the editors outline the fundamentals and significance of cheating and they introduce the common datasets to which chapter authors cheating detection methods were applied Contributors describe in Section II methods for identifying cheating in terms of improbable similarity in test responses preknowledge and compromised test content and test tampering Chapters in Section III concentrate on policy and practical implications of using quantitative detection methods Synthesis across methodological chapters as well as an overall summary conclusions and next steps for the field are the key aspects of the final section *Safeguards Techniques*, 1970 *Handbook of X-ray Imaging* Paolo Russo, 2017-12-14 Containing chapter contributions from over 130 experts this unique publication is the first handbook dedicated to the physics and technology of X ray imaging offering extensive coverage of the field This highly comprehensive work is edited by one of the world's leading experts in X ray imaging physics and technology and has been created with guidance from a Scientific Board containing respected and renowned scientists from around the world The book's scope includes 2D and 3D X ray imaging techniques from soft X ray to megavoltage energies including computed tomography fluoroscopy dental imaging and small animal imaging with several chapters dedicated to breast imaging techniques 2D and 3D industrial imaging is incorporated including imaging of artworks Specific attention is dedicated to techniques of phase contrast X ray imaging The approach undertaken is one that illustrates the theory as well as the techniques and the devices routinely used in the various fields Computational aspects are fully covered including 3D reconstruction algorithms hard software phantoms and computer aided diagnosis Theories of image quality are fully

illustrated Historical radioprotection radiation dosimetry quality assurance and educational aspects are also covered This handbook will be suitable for a very broad audience including graduate students in medical physics and biomedical engineering medical physics residents radiographers physicists and engineers in the field of imaging and non destructive industrial testing using X rays and scientists interested in understanding and using X ray imaging techniques The handbook s editor Dr Paolo Russo has over 30 years experience in the academic teaching of medical physics and X ray imaging research He has authored several book chapters in the field of X ray imaging is Editor in Chief of an international scientific journal in medical physics and has responsibilities in the publication committees of international scientific organizations in medical physics Features Comprehensive coverage of the use of X rays both in medical radiology and industrial testing The first handbook published to be dedicated to the physics and technology of X rays Handbook edited by world authority with contributions from experts in each field

Structural Health Monitoring, Damage Detection & Mechatronics, Volume 7 Alfred Wicks, Christopher Niezrecki, 2025-08-07 Structural Health Monitoring Damage Detection Mechatronics Volume 7 Proceedings of the 34th IMAC A Conference and Exposition on Dynamics of Multiphysical Systems From Active Materials to Vibroacoustics 2016 the seventh volume of ten from the Conference brings together contributions to this important area of research and engineering The collection presents early findings and case studies on fundamental and applied aspects of Structural Dynamics including papers on Structural Health Monitoring Damage Detection Numerical Modeling Mechatronics System Identification Active Controls

Handbook of Radioactivity Analysis Michael F. L'Annunziata, 2020-03-07 Handbook of Radioactivity Analysis Radiation Physics and Detectors Volume One and Radioanalytical Applications Volume Two Fourth Edition constitute an authoritative reference on the principles practical techniques and procedures for the accurate measurement of radioactivity everything from the very low levels encountered in the environment to higher levels measured in radioisotope research clinical laboratories biological sciences radionuclide standardization nuclear medicine nuclear power and fuel cycle facilities and in the implementation of nuclear forensic analysis and nuclear safeguards It includes sample preparation techniques for all types of matrices found in the environment including soil water air plant matter and animal tissue and surface swipes Users will find the latest advances in the applications of radioactivity analysis across various fields including environmental monitoring radiochemical standardization high resolution beta imaging automated radiochemical separation nuclear forensics and more Spans two volumes Radiation Physics and Detectors and Radioanalytical Applications Includes a new chapter on the analysis of environmental radionuclides Provides the latest advances in the applications of liquid and solid scintillation analysis alpha and gamma spectrometry mass spectrometric analysis Cherenkov counting flow cell radionuclide analysis radionuclide standardization aerosol analysis high resolution beta imaging techniques analytical techniques in nuclear forensics and nuclear safeguards Describes the timesaving techniques of computer controlled automatic separation and activity analysis of radionuclides

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