



24th - 25th
April **2021**

**eConference
Proceedings**

4th INTERNATIONAL eCONFERENCE-2021
Fingerprint Analysis

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GREETINGS FROM THE ORGANIZING DESK

The new era post the global pandemic has affected academics, establishments, and individuals' preparedness worldwide. Forensic Science has an interdisciplinary approach and its true essence can be proved meaningful with collaborative efforts of people present around the globe functioning together as a team. With a vision to bring all the academicians, students, and professionals and share their valuable contemplations, the 4th International eConference is structured to lead the way through endeavors focused to take Forensic to greater heights. We welcome every science enthusiast to become a part of this revolutionizing effort and explore the technological advancements, scientific researches, and opportunities for everyone to flourish.



Dr. Ranjeet Kr. Singh
President
International Association
Of Scientists and Researchers



Phaneendar B N
Forensic Expert, CEO
Clue4 Evidence Foundation



4th INTERNATIONAL eCONFERENCE-2021

THE ORGANIZER

INTERNATIONAL ASSOCIATION OF SCIENTISTS AND RESEARCHERS (IASR)

IASR is a non-profit organization focused to deliver the updated literature and research work to not only the global scientific and research society, but also to everyone. Providing open access to critically reviewed high-quality research papers and literature, it works with a mission of providing a user- friendly global platforms for researchers, scientists for sharing information, and dissemination of recent ground breaking researches and advancements in various fields working together for the betterment of the world.

About the eConference

Forensic Science has proffered techniques that have leveled up the competence of humankind and are staying up with the trend. At the outset, the International Association of Scientists and Researchers (IASR) in association with the Sherlock Institute of Forensic Science (SIFS) India organizing the 4th International eConference on “Fingerprint Analysis”, 2021. With utmost enthusiasm, the organizing committee invites the young minds and professionals of various disciplines of forensic science and become a part of the first-ever convention organized with the motto of bringing the unrecognized talents, present globally. The program would follow talks by eminent national and international experts accompanied by e-paper presentations, ePoster presentations, discussions, and scientific excellence awards.

Mission Statement

“Committing towards the fact of being a lead-follower of technology with a bold spirit of risk-taking, helping us make our presence noticeable worldwide”.





4th INTERNATIONAL eCONFERENCE-2021

SPEAKER'S PROFILE



SHANE TURNIDGE

Fingerprint Expert
SST Forensics, Canada

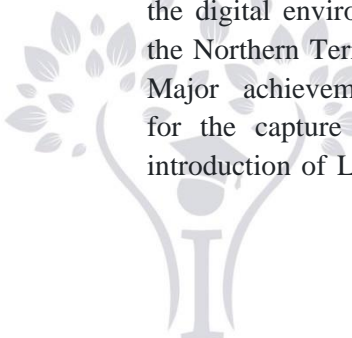
Fingerprint expert Shane Turnidge has been part of the forensic identification landscape in Canada for more than thirty years. Since retiring from public service, he has owned and operated an independent expert fingerprint and palm print consultancy, SSTForensics. His knowledge, skills, and experience were gained while working for both the Peel Regional Police and the Toronto Police Service in their respective Automated Fingerprint Identification System (AFIS) sections. He was also certified to search and save both latent fingerprint and latent palm print records on the RCMP AFIS database in Ottawa. As an author, he has been published in several peer-reviewed journals on several topics.



JOHN PATRICK MOLONEY

Director
Forensic Comparison Software, Australia

John Patrick Moloney was employed in 2008 as a consultant by the Australian Department of Immigration to introduce Fingerprint identification in to Immigration Processing. Achievement's include the integration of Australian Immigration Fingerprint database with Australia's National Fingerprint system NAFIS. As the manager of the Australian Federal Police Fingerprint Section, he adopted work practices that best equipped the Fingerprint team for the digital environment. He was appointed as Officer in Charge of the Northern Territory of Australia Fingerprint Section in 1998. Major achievements include the introduction of digital cameras for the capture of latent fingerprints at crime scenes and the introduction of Livescan for the capture of offender fingerprints.





4th INTERNATIONAL eCONFERENCE-2021

SPEAKER'S PROFILE



DR. NEETI KAPOOR

Assistant Professor,
Government Institute of Forensic Science, Nagpur, India

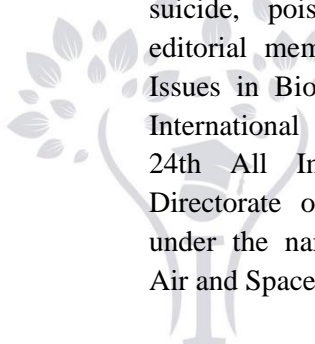
Dr. Neeti Kapoor is an Assistant Professor since 2012 at the Government Institute of Forensic Science, Nagpur. She has 28 international research paper publications and five international chapters to her credit. She is a recognized reviewer for over ten journals from reputed publishers such as Elsevier, Springer Nature, Routledge-Taylor & Francis, SAGE, and PLOS. She has delivered over 50 guest lectures and practical demonstrations on various aspects of Forensic Science to the Police Officers of Nagpur City Police, Bhandara District Police, Chandrapur District Police, Nagpur Rural under the Special IG Office Nagpur Range under In-Service training program, etc. She has been awarded Special Recognition for their contribution to "Scientific Aid to Investigation" by Nagpur City Police Commissioner in 2017, 2018, 2019.



HEENA GOSWAMI

Assistant Professor
Gujarat National Law University, Gujarat, India

Heena Goswami is currently serving as Dean of Extension and Capacity Building & Assistant Professor of Science & Technology. She has associated with Gujarat National Law University and having research experience working with Regional Forensic Science Laboratory, Junagadh. She has actively investigated multiple crime scenes like murder, hanging suicide, poisoning, motor vehicle accidents, etc. She is also an editorial member of Science technology and Law: Contemporary Issues in Biotechnology. She has actively involved in SSIP Annual International Conference organized by EDII and participated in 24th All India Forensic Conference jointly organized by the Directorate of Forensic Science. She has numerous certifications under the name form International Taxation, Certificate course on Air and Space Law.





SPEAKER'S PROFILE



MOHAMED ALSUWAIDI

**Fingerprint Chemical Development Examiner
Dubai Police, UAE**

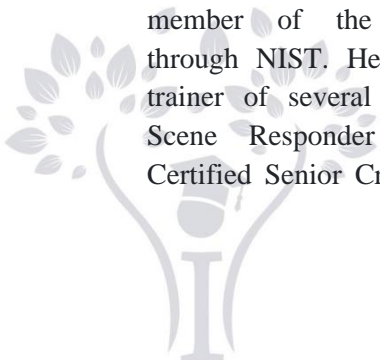
Mohamed Alsuwaidi is currently working as a Fingerprint Chemical Development Examiner since 2013 and also he is working with ISO Standards in Chemical Development Section since 2016. He graduated from the UK Undergraduate from the University of South Wales in Forensic Science and holds a master in instrumental analysis from the University of Central Lancashire. He also did a Diploma in Fingerprint from Ron Smith & Associates, Inc. In 2019, he completed his training from the USA FBI team in Forensic Photography. In 2017, he was trained to use the forensic scoop and in 2018, he was trained to use EVI scan. He was a member of the Dubai police scientist council (2017-2018). He has a membership in the International Association of Identification (IAI).



ANDREW REITNAUER

**Forensic Consultant
Delta Forensics, USA**

Andrew Reitnauer is currently serving as the Technical Lead Scientist for the Washington DC Department of Forensic Sciences, Latent Fingerprint Unit, and previously served as a Shift Supervisor for the Crime Scene Services Section, as well as being the owner of Delta Forensics, LLC, a forensic science consulting and training company. He is also an ASCLD/LAB approved internal auditor for laboratory standards. He is an initial member of the Friction Ridge Subcommittee of the OSAC through NIST. He is an expert witness examiner and testimony, trainer of several topics and 20+ class sessions, senior Crime Scene Responder since 2006, Forensic Photographer and a Certified Senior Crime Scene Analyst (CSCSA) with the IAI.





4th INTERNATIONAL eCONFERENCE-2021

SPEAKER'S PROFILE

DUVAY HERNANDO BERRIO BERNAL



Forensic Instructor - Investigator - C.S.I.

Institute of Criminal Law and Criminal Sciences, Bogota

Duvay H. Berrio is the Fingerprint Examiner and Crime Scene Investigation Expert. He has an experience of 15 years in the field of Forensic Science. He worked as Legal Assistant, Criminologist Researcher, Fingerprint Examiner, Document Examiner, Biometric expert etc. He worked at National Agency of Investigators and Experts, Colombia, Bogota D.C. In 2005, he worked at Fingerfile Forensic Science Labs, Bogota D.C. He is also giving his contributions in teaching at Sergio Arboleda University. He has numerous publications under his name in various National and International journals.

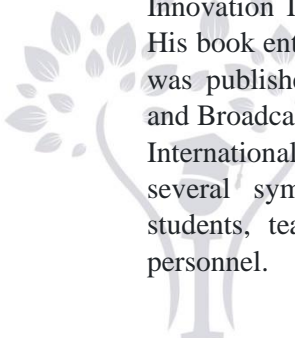


DR. G. S. SODHI

Associate Professor,

SGTB Khalsa College, University of Delhi, India

Dr. G.S. Sodhi earned his Ph.D. degree from Delhi University and at present is an Associate Professor in Chemistry and Forensic Science at the S.G.T.B. Khalsa College, Delhi University. He has published 100 research papers and filed 10 Indian patents. He was Visiting Fellow, National Crime Records Bureau, Ministry of Home Affairs, New Delhi during 1996-97. He has successfully completed 10 research projects, sanctioned by the University Grants Commission, Department of Science and Technology, Indian National Science Academy, and the University of Delhi. He received Union Home Minister Award; National Technology Day Award; National Search for Innovation Award; Lockheed Martin India Innovation Award; and India Innovation Initiative Award for innovative work in forensic science. His book entitled Indian Civilization and the Science of Fingerprinting was published by the Publication Division, Ministry of Information and Broadcasting, Government of India in 2013. He is a Member of the International Fingerprint Research Group, Jerusalem. He has organized several symposia and training courses in forensic science for students, teachers, army officers, and Indian and overseas police personnel.





4th INTERNATIONAL eCONFERENCE-2021

SPEAKER'S PROFILE



DR. KANCHANA KOHOMBANGE

**Director,
International Hand Analyzing Consultancy, Sri Lanka**

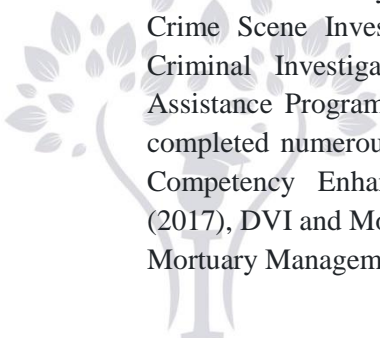
Dr. Kanchana is currently working as the Director of International Hand Analyzing Consultancy, has been conferred Research Doctorate from an International Open University in Kolkata, India. She owns the Largest Fingerprint Database in Sri Lanka and has about 12 years of research experience. She has undergone training in "Finger Print Science in Law Enforcement" at the Central Finger Print Bureau of National Crime Records Bureau (An Accreditation body for Finger Print Experts in India) New Delhi, India, and secured 1st position. She has studied forensic science and criminal investigation from Atma Ram Sanatan Dharma College, University of Delhi. The most common studies she has made so far is medical palmistry, scientific hand analysis, gestures, and identification of personality through hand analysis. Under these categories, she has already published many research papers in the national and international journals of repute. She is a growing researcher and writer for a period.



PUDJI HARDJANTO

**Republic Indonesia Police Officer
Crime Unit, Surabaya, Indonesia**

Pudji Hardjanto is currently working as a Republic Indonesia Police Officer at Crime Unit in Surabaya. He completed a Bachelor of Law in the year 2008 and Masters in Forensic Science in the year 2019 from the University of Airlangga. He has been trained in several Crime Scene Investigation training like CSI with NCIS (Naval Criminal Investigative Service) in 2008, CSI, Anti-Terrorism Assistance Programme with USA ATA in the year 2014. He also completed numerous Disaster Victim Identification courses such as Competency Enhancement on DVI Technic and Management (2017), DVI and Mortuary Management Course (2018), and DVI and Mortuary Management Course, JCLEC Semarang (2019).





4th INTERNATIONAL eCONFERENCE-2021

Day 1: 24th April 2021

Time	Topic	Keynote Speaker
10:30 to 11:00 AM IST	Friction Ridge Analysis, a Return to Science	Shane Turnidge
11:00 to 11:30 AM IST	The Future of Fingerprint Analysis	John Patrick Moloney
11:30 to 12:00 PM IST	Fingerprint Examination: An Aid to investigation	Dr. Neeti Kapoor
12:00 to 12:30 PM IST	Demystifying the Role of Fingerprint Science in Justice Delivery System	Heena Goswami
12:30 to 01:00 PM IST	Synthesis of Fingerprint Powder using waste and Low cost Materials	Mohammed Al Suwaidi

Day 2: 25th April 2021

10:30 to 11:00 AM IST	Latent Print Development: Blood Impressions	Andrew Reitnauer
11:00 to 11:30 AM IST	Comparison and Analysis of the Third Level in Fingerprints Developed and Located on the Transplant Tape	Duvay Hernando Berrio Bernal
11:30 to 12:00 PM IST	Advances in Chemical Development of Latent Fingerprints	Dr. GS Sodhi
12:00 to 12:30 PM IST	The significance of Fingerprints and Dermatoglyphics	Dr. Kanchana Kohombange
12:30 to 01:15 PM IST	Challenges in Fingerprint Analysis by INAFIS	Mr. Pudji Hardjanto



Chairing Panel Day-1

Chairperson



Dr. Raju Tandan

B. T. Institute of Excellence, Sagar

Chairperson



Dr. Anu Singla

Dr. A.P.J. Abdul Kalam Institute of Forensic Science & Criminology, Bundelkhand University, Jhansi

Chairperson



Dr. Ashutosh Tripathi

SAGE Institute of Sciences, SAGE University, Indore

Chairperson



Dr. Anurekha Yadav

Forensic Science Laboratory, M.P.

Chairing Panel Day-2

Chairperson



Hemanta Kumar Panda

Retd. Fingerprint Expert Bhubaneswar, Odisha

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Dr. Kavita Sharma

Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore

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Dr. Vijay R Chourey

Government Holkar (Model Autonomous) Science College, Indore

Chairperson



Dr. Swati Dubey Mishra

Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore



Chairperson for Scientific Presentations Day-1

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PAPER PRESENTATION



Chairperson

Dr. Bhoopesh Kr. Sharma

SGT University,
Gurugram

Chairperson



Dr. Amarnath Mishra

Amity University,
Noida

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Chairperson for Scientific Presentations Day-2

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Chairperson



Dr. Rajeev Kumar

Galgotias University,
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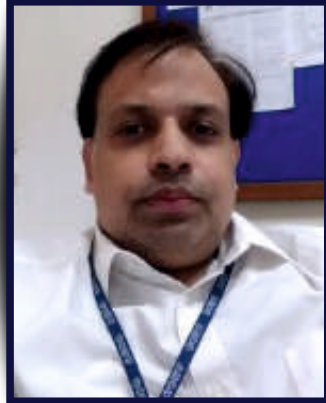
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Faridabad (MDU Affiliated)



Dr. Kapil Kumar

Department of Forensic
Science, Gujarat University,
Ahmedabad



Dr. Manavpreet Kaur

Wikimedia Foundation
Punjab

JURY MEMBERS FOR ePOSTER PRESENTATION



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National Post Graduate
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**Pallavi Mallik
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Forensic Science
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Sub-inspector of Police,
Fingerprint Expert,
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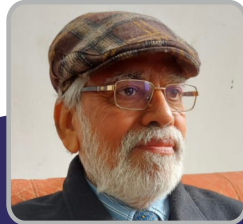
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Training College, Indore



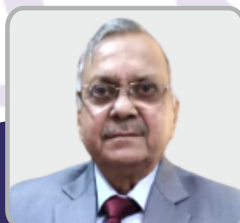
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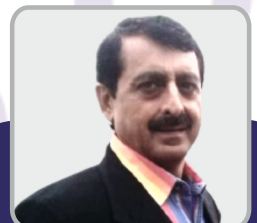
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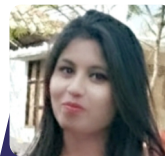
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Paper Category

MOTHER HAS AFFECTION TOWARDS HER CHILDREN. BUT MORE AFFECTION TOWARDS..... SON OR DAUGHTER? – A PILOT STUDY ON “INHERITANCE OF FINGERPRINT PATTERN” AMONG MALAYSIAN INDIAN FAMILIES

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Abstract

Fingerprint identification is one of the most well-known and publicized biometrics. It is globally used to identify both live and dead. Because of their uniqueness and consistency over time, fingerprints have been used for identification for over a century, more recently becoming automated (i.e. a biometric) due to advancements in computing capabilities. A fingerprint usually appears as a series of dark lines that represent the high, peaking portion of the friction ridge skin, while the valley between these ridges appears as white space and are the low, shallow portion of the friction ridge skin. The most widely used recognition technique, minutiae-based matching, relies on the minutiae points, specifically the location and direction of each point. 53 Malaysian Indian families who accepted for sample donation. A family consists of a father, a mother, and two children. Following the standard procedure, fingerprints were collected and statistically analyzed the inheritance of fingerprint patterns. The result showed that the inheritance of fingerprint pattern frequency from mother to son is the highest (82.7%), followed by father to daughter (79.6%), father to son (71.2%), and the least mother to daughter (70.4%), and considered “affection”. Thus, this pilot investigation concluded with a finding that inheritance of fingerprint pattern and affection shows a statistical relationship among Malaysian Indian family members. The mother has comparatively more affection towards her son, while the father has more affection towards his daughter. My observation confirms this fact since I have been in close and friendly relationship with many Indian families in Malaysia, for about two decades.

Keywords: fingerprints, frequency, friction ridge analysis, sample donation, inheritance.





PRACTICAL APPROACH FOR FINGERPRINT RECOGNITION BY COMBINING LOCAL BINARY PATTERN AND PRINCIPAL COMPONENT ANALYSIS

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Abstract

Fingerprint is used for real time application nowadays. So reliability is the more important thing for security. Fingerprint is rapidly becoming area of interest in computer science field. In this paper, fingerprint recognition is done using combination of local binary pattern and principal component analysis for better recognition result. The feature extraction is an essential step for image analysis, object representation, visualization, and many other image-processing tasks. PCA is used for dimension reduction. LBP is used to measure the expression of Fingerprint. Hybrid approach will increase the recognition rate (RR) of Fingerprint and decreased verification time and false match rate. So it is most suitable for real time application. We compared proposed method with both PCA and LBP to compute these changes that increased Fingerprint recognition rate and decreased recognition time and false match rate.

Keywords: Fingerprint image representation, LBP, PCA, Recognition rate, false match rate.





DIFFICULTIES FACED DURING RECORDING FINGERPRINT FOR IMMIGRATION

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Abstract

Fingerprints are inborn and difficult to alter in any way. In the modern era, where the fingerprint is commonly used by people for individuality. Fingerprinting for the immigration process is a complex activity that requires highly qualified fingerprint experts. Fingerprint has been commonly used as a reliable source of individual identification in criminal investigations for many years, and as a result, they have a special place in the world of forensic science. It has been referred to as the most important proof since a long time ago. This paper deals with the various challenges and difficulties that an examiner faces taking fingerprints. There are lots of difficulties like incorrect finger placement, dry finger, light prints, dark images from wet or perspiring fingers, degraded or worn ridges structure, etc. This review paper deals with the difficulties faced during fingerprinting in the immigration process.

Keywords: Immigration, PCC, fingerprint, forensic science, identification, clearance.





USE OF NANOPARTICLES FOR THE DEVELOPMENT OF LATENT FINGERPRINTS

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Abstract

The advances in nanoparticles have vast applications in the field of Forensic Science such as in security documents, paints, examination of inks, chemicals & toxins, DNA analysis, Lab-on-chip, among others. They have also proved to be useful for the development of latent fingerprints. Distinct ridge details can be obtained by applying different nanoparticles such as gold, silver, silicon dioxide, zinc oxide, aluminum oxide, etc. Latent Fingerprint evidence is one of the important pieces of evidences found in many crimes. The use of new and better techniques may enable the development of fingerprints even on seemingly difficult substrates. This review focuses on different nanoparticles and their applications in the development of latent fingerprints.

Keywords: Nanoparticles, Latent Fingerprints, Ridge Details, Porous Surface, Nano-Forensics.





REVIEW ON SEX DETERMINATION FROM FINGERPRINTS

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Abstract

Fingerprints are unique characteristics which help to establish the identity of an individual. No two fingerprints are alike thus useful technique for individualization. Fingerprints are the most commonly encountered trace evidence from a crime scene and can be latent, patent and plastic in nature. Dermatoglyphics is the scientific study of ridge patterns of the skin. The study of dermatoglyphics involves either qualitative or quantitative analysis. Qualitative dermatoglyphics focuses on, patterns of fingerprints and types of minutiae; while, ridge count and finger ridge density (RD) are examples of the finger-prints quantitative study. Epidermal ridge density can be determined by two parameters such as (1) ridge width and (2) distance between ridges. The thickness of the epidermal ridges varies between individuals, generally women have finer ridges than men and, therefore, greater ridge density within a given unit of space. The ridge densities were calculated using Bayer's equation. Researches have conducted the studies among Caucasian–American, Spanish, African–American, Southern Indian and Central Indian populations and similar trend of women tend to have higher ridge density compared to male. The studies show that ridge density will help the investigators to identify the gender of the perpetrators and thereby narrow down the possible suspects.

Keywords: fingerprints, dermatoglyphics, ridge density, sex determination, personal identification, ridge width.





BIOMETRICS IN FORENSIC IDENTIFICATION

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Abstract

Accurate and efficient identification have become a vital requirement for forensic application due to diversities of criminal activities. A recent advancement in biometric technology, which is equipped with computational intelligence techniques, is replacing manual identification approaches in forensic science. Biometrics is a fundamental verification mechanism that identifies individuals based on their physiological and behavioral features. These biometric expansions are easily observable in different forensic identification areas, e.g. face, fingerprint, iris, voice, handwriting, etc. Forensic Biometrics also overcomes the loopholes of traditional identification system that were based on personal probabilities. It is considered as a fundamental shift in the way criminals are detected. Biometrics is one of the most fascinating ways to solve the crime. It is an automated way to establish the identity of a person because of his or her physical (fingerprint, face, hand/finger geometry, iris, retina, ear, etc.) and behavioural characteristics (signature, voice, gait, odor, etc.). A biometric system is a pattern recognition device that acquires physical or behavioural data from an individual, extracts a salient feature set from the data, compares this feature set against the features set stored in the database and provides the result of the comparison. Accurate and reliable identification is an important issue in crime detection. The biometric recognition is emerging as a sound scientific justifiable tool in investigative procedure. It holds the potential to solve the criminal activities. Advances in biometric technology mean that biometrics will have a more marked impact in crime detection in coming future. However many improvements in the recognition systems can be expected if recent findings in applied mathematics, statistics and computer sciences are implemented in biometric science.

Keywords: biometrics, fingerprint, identification, physical characteristics, behavioural characteristics.





PHYSICAL DEVELOPER METHOD FOR DETECTION OF LATENT FINGERPRINTS

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Abstract

A new technique to detect latent fingerprints on dry and wet, porous items including paper articles, rubber gloves, nylon clothing and clay-based products for enhancing the identification. A solution containing iron salt reduces aqueous silver nitrate to finely divided metallic silver coupled with oxido-reduction process is the basis of mechanism. This process is like a photographic physical developer which, during processing of film rolls, undergoes a similar redox reaction, thus deriving its name from it. Dark gray or black images reveal the fingerprint due to the adsorption of metallic silver particles on the fatty acid and lipid components of sweat residue.

Keywords: latent fingerprints, iron salt solution, oxido-reduction, metallic silver, photographic image.





ePoster Category

ORGANIC FOOD WASTE TO FINGERPRINT POWDER: FORENSIC GOES GREEN

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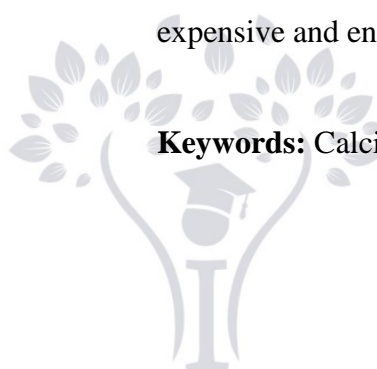
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Abstract

Powder dusting technique is the most versatile latent fingerprint development method, which can be enhanced through nanotechnology. The primary aim of this research was to synthesis nanoparticle based high-definition fingerprint developing powder from agriculture waste. Eggshells produced from local food outlets were subjected to stepwise thermal treatments, carbonization and calcination at 80°C (2 hours) and 900°C (3 hours), respectively. The efficiency of the powder for latent fingerprint development was tested in two phases; multiple surface and multiple donor studies. The first phase tested the efficiency of powder in comparison to the commercial white powder (SIRCHIE), across varied non-porous surfaces followed by the second phase carried out using 150 random fingerprint donors. The fingerprint was graded based on the clarity of the ridges and scores were subjected to data analysis. Fine white calcium oxide powder was produced from the thermal treatment. Upon application on latent fingerprints, the synthesized powder exhibited high selectivity and sensitivity to fingerprint residue resulting in the formation of clear ridge details. Independent t-test analysis of fingerprint grades in Phase 1 ($t_{\text{plastic}} = -2.366$, p-value = 0.031; $t_{\text{metal}} = -0.849$, p-value = 0.409; $t_{\text{glass}} = -0.918$, p-value = 0.372) revealed significant difference in development on plastic surface alone attributed to the adhesive property of the SIRCHIE. Meanwhile, phase 2 data ($t_{\text{male}} = -3.809$, p-value <0.001; $t_{\text{female}} = -3.145$, p-value = 0.002) showed that there were significant improvement in the clarity and contrast of the fingerprints developed using calcium oxide powder. Findings of this research may contribute to increase fingerprint recovery in the crime scenes, as well as provide a safer and cost-effective alternative to the commercial white powder that contains titanium oxide pigment that are expensive and energy intensive production.

Keywords: Calcium oxide, nanoparticle, fingerprints, eggshells, organic food waste





USE OF FINGERPRINT BIOMETRIC IN WORKPLACE DURING COVID TIMES: A CRITICAL VIEWPOINT

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Abstract

Biometrics is referred as biometric recognition due to the fact that a person can be automatically identified based on his/her physiological characteristics. Biometric systems have been widely used before the inception of computer in human activities. These systems make use of the physical or biological traits of human beings for recognition and authentication purposes. Most common biological traits or characteristics used are fingerprints, iris and face. Before the COVID-19 pandemic period, most of the Schools, Colleges, IT companies, Government & Private Offices had fingerprint biometric system to collect attendance of their Students/Employees. Fingerprint recognition is a secure and convenient technology that has become common and widespread, not only in smart phones, but in our everyday lives as well. However, the recent global outbreak of COVID-19 is raising questions about how safe using fingerprint authentication really is, as touching the sensors can potentially spread viruses. Our everyday lives are surrounded by many different types of surfaces that come in contact with countless people. These surfaces include the poles in buses and trains, elevators, ATMs, buttons on copy machines, door handles, handrails, tables, credit cards and money, to list but a few. In the wake of the COVID-19 outbreak, numerous news articles have claimed that there is a risk of infection via these commonly touched surfaces. In this poster, we will look into the different guidelines issued by the authorities related to the fingerprint biometrics & also explore the other alternatives that we have in the present day, to overcome the same in this COVID-19 period.

Keywords: Biometric, Fingerprint, COVID.





FINGER KNUCKLE CHARACTERISTICS: A PROMISING BIOMETRICS

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Abstract

Biometric authentication is a security process that relies on the unique biological characteristics of an individual such as fingerprint, retina scan, iris recognition etc. The basic premise of biometric authentication is that every person can be accurately identified by his or her intrinsic physiological characteristics or behavioral characteristics. Hand biometrics is based on geometric shape of the hand- size of palm, length and width of finger, distance between the knuckles etc. Finger knuckle print (FKP) or the finger knuckle characteristics are the pattern present on the outer surface of fingers i.e., at the finger phalangeal joint, these patterns have more obvious line features than the palm surface. Each individual has unique knuckle-prints. The uniqueness of a knuckle-print is exclusively determined by the local ridge characteristics and their relationships. Automatic knuckle-print matching depends on the comparison of these local ridge characteristics and their relationships to make a personal identification. An important step in knuckle-print matching is to automatically and reliably extract minutiae from the input knuckle-print images. The result of minutiae extraction depends on the quality of the input knuckle-print images. In such situations, the ridges can be easily detected and minutiae can be located from the thinned ridges. The ridge structures in poor-quality knuckle-print images are not always well defined so cannot be correctly detected posing some problems. It has advantages of easy acquisition and high resilience to spoof attacks and has been noticed to identify individual based on pattern.

Keywords: biometric, finger knuckle print, retina scan, fingerprint, minutiae, ridges.





LASER TECHNIQUE FOR LATENT FINGERMARK DEVELOPMENT

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Abstract

Laser technique is often used as a supplement to conventional procedures of latent fingerprint detection. The fluorescence so produced provides intrinsic high sensitivity such that fingerprints may be detected on difficult and unusual substrates. It also enables detection of very old fingerprints. This review focuses on the various aspects of the use of Laser technique for latent fingerprint development.

Keywords: Fingerprint, Laser Detection, Fingerprint, Latent Print, Print and impression.





CLONING OF A FINGERPRINT

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Abstract

Fingerprints are unique patterns, made by friction ridges and furrows, which appear on the pads of the fingers and thumbs. Prints from palms, toes and feet are also unique; however, these are used less often for identification, so it focuses on prints from the fingers and thumbs. Friction ridge patterns are grouped into four distinct types—loops, whorls, arches and composite—each with unique variations, depending on the shape and relationship of the ridges. The aim of the study is to learn about the process of cloning of a fingerprint, its requirements and complications, how to avoid such kind of hacking on personal level and as well as on digital level. In the study, a mould of a finger was created using adhesive hot glue and gelatine leaves or fevicol to make the fingerprint. The limitation of the cloning to create an artificial finger using a mould requires the legitimate user's actual finger. The artificial finger was tested on fingerprint scanners of several mobile phones and laptops as well and the results came out to be positive, but the test rate was not very high until proper mould was made and a good technique to do it was learned. This cloning is quite easily detected by the user whose finger is being copied. A person planning to break into a system using a fingerprint scanner should have a very credible story to convince someone to stick his or her finger in hot glue. The cloning works best when the adhesive solution is thick enough and least number of bubbles in the moulded finger and use of more than one mould to create a different finger.

Keywords: Fingerprints, cloning, gelatin, fevicol, moulded finger.





IR- LASER ABLATION TECHNIQUE: A METHOD OF ANALYSING FINGERPRINTS

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Abstract

Fingerprints left behind at the crime scene can be developed by using various conventional and advanced techniques, but they do not reveal the information related to the chemical components present on their surface. A team of Chemists at Louisiana State University LA, USA developed a new technique to identify these components with the help of laser ablation. It is the method for mass spectrometry, which combines laser ablation with infrared ray which can be used on the surface with different porosity such as glass, plastic, cardboard, aluminium. Laser can remove complete material from the substrate (initially enhanced with powders, usually black powder) by heating it through targeting a beam of ray at particular spot, integrated with vacuum capture with syringe filters and then analyse the vacuumed material with spectrometric methods to determine the mass of the compound(s) present. Hence revealing the activity of the person involved. In their study chemists worked on analysis of caffeine, condom lubricants, explosives on the surface of fingerprint with the help of Matrix-Assisted Laser Desorption Ionization (MALDI) imaging. GC-MS has been used to analyse the explosives on the fingerprints.

Keywords: MALDI, Laser Ablation, Infrared, Fingerprints, Spectrometry.





CONTACTLESS FINGERPRINT SYSTEM

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Abstract

Since early 2020, the COVID-19 pandemic has had a considerable impact on many aspects of daily life. A range of different measures have been implemented worldwide to reduce the rate of new infections and to manage the pressure on national health services. A primary strategy has been to reduce gatherings and the potential for transmission through the prioritisation of remote working and education. Enhanced hand hygiene and the use of facial masks have decreased the spread of pathogens when gatherings are unavoidable. Fingerprint recognition systems are widely used in the field of biometrics. Many existing fingerprint sensors acquire fingerprint images as the user's fingerprint is contacted on a solid flat sensor. Because of this contact, input images from the same finger can be quite different and there are latent fingerprint issues that can lead to forgery and hygienic problems. For these reasons, a touch less fingerprint recognition system has been investigated. This poster strives to throw light to switch over the use of contactless biometric system.

Keywords: COVID, contactless, fingerprint system, ridges, recognition systems.





COMPREHENSIVE DERMATOGLYPHICS STUDY ON RIDGE DIMENSIONS, PORE SIZE AND ASSESSMENT OF THE SWEAT COMPOSITION AMONG THE INDUSTRIAL WORKERS

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Abstract

Every individual has unique fingerprints. The cross section of finger would look like the cross section with ridges and furrows. Ridge morphology and morphometry are anatomical ridge individualization used in identification of victim or criminal in forensic science. The ridges have pores along their entire length that exudes perspiration. The perspiration contains different components depending on the environment, occupation, food intake and habits. Study of the sweat composition can narrow down the search for the identification of an individual. This is a unique approach to study the fingerprints of individuals, which can be important concerning the identity of an individual. The study has been conducted on 20 samples taken from the people working in the pigment industry. In Dinolite analysis, a significant increase in the dimensions of pore size and ridge width of the pigment industrial workers was more than the normal individuals due to the muscular activities. In FTIR analysis for the collected samples, molecules like N=O=C, C-N and C-X are present in the sweat samples of the pigment industry workers which are also present in the dye and absent in the sweat samples of the normal individual. From this we can conclude that the identification of the individuals on the basis of their occupation can be narrowed down.

Key words: fingerprint, sweat composition, pigment industries, workers, occupation.





FINGERPRINTS FROM DECEASED

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Abstract

Fingerprints have been proven to be the best evidence for identification and individualization in forensic world. Fingerprints are not something new to humans as it is been in use intentionally or unintentionally since very ancient Babylonian culture. The area of fingerprint has shown a great development in collection, developmental techniques, analysis, classification, individualization and now into the digital world. It has become a process for personal identification in everyday life and with this popularity now, it has become the backbone of every investigation. Fingerprints whether from dead or living is of equal importance, these two only differs in manner of collection of fingerprint. Many a time's collection from dead found to be very cumbersome process depending upon the stage at which the deceased is encountered for collection of fingerprints. Presence of rigor mortis and later decomposition state increases the difficulty of this collection. However variety of procedure is employed for successful collection of fingerprints from deceased and further for their individualization.

Keywords: Fingerprint, Living, Dead, Rigor Mortis, Decomposition, Deceased.





RELIABILITY OF UNCONVENTIONAL METHODS OF DEVELOPING FINGERPRINT

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Abstract

Analysing fingerprints left at the scene of a crime is one of the most critical part of forensic analysis. Fingerprint is an impression left by the friction ridges of a human finger. Light and dark areas of fingerprint pattern are known as ridges and valleys. It is said to be most versatile but fragile evidence found at crime scene. In the present scenario, various types of modus operandi for committing crime have been emerged very high in our society. Although, the modern and advanced technologies have facilitated us for investigation and identification of the suspect. The investigative techniques evolve the traditional and moderate methods for the succession of cases and exist in the tradition of practice. Among of all evidences, the latent prints are most often at crime scene and frequently encountered which takes the most efficacious and effective part in solving the most puzzled cases. Instead of using the traditional methods, if some unconventional methods could be used, which have higher significance in latent prints development and identification; will be a great help in forensic investigation. In this study we have studied some research papers on internet and every research work using unconventional methods for development of fingerprint was successful at a very high rate. For the development of prints present at various surfaces, four unconventional methods (turmeric powder, gram flour, coffee powder, vermilion, henna, corn flour etc.) were used. The developed prints were clear, identifiable which were having all the information (individual and class characteristics) about an individual to be nabbed. The main purpose of using these unconventional methods are because of their massive advantages which are: easily available, cheap, and non-carcinogenic.

Keywords: non-carcinogenic, unconventional, fingerprint, henna, vermilion, traditional methods.





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