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Pattern Recognition Workshop, IEEE Conference, Pp: ,2015. [4] Yuan Yao,Yun Fu, " Contour Model Based Hand-Gesture Recognition Using Kinect Sensor", IEEE Transaction On Circuits And System For Video Technology, Pp: 1-6,2013. [5] Prakash B Gaikwad, Dr. V.K.Bairagi," Hand Gesture Recognition For Dumb People Using Indian Sign Language" , International Journal Of Advanced Research In ... Jul 25th, 2020

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Languages, Including American Sign Language, Korean Sign Language, Chinese Sign Language, Etc. [8]. The Proposed Sign Recognition Systems Rely On Either Image-based Or Sensor-based Solutions. Most Of The Sensor-based Systems Recognize Gestures Utilizing Glove-based Gadgets Which Provide Information About The Position And The Shape Of The Hand [9]. However, These Connected To A Computer. This ... Jan 15th, 2020

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Unlike The Traditional Machine Learning Algorithms, CNN Can Be Generalized, Transfer Learning And Finetuning Its - Learned Parameters Which Have Been Acquired From Other Visual Recognition Tasks. IJCSNS International Journal Of Computer Science And Network Security, VOL.19 No.10, October 2019 145 . Fig.1 Representation Of Arabic Sign Language Characters [16]. Recognition [24]. In [26], 3D CNN ... May 21th, 2020

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Neuro-fuzzy Approach Is Termed As Neuro-fuzzy System. It Is A Hybrid Of Neural

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A Neural Network Based System For Persian Sign Language Recognition Azadeh Kiani Sarkaleh, Fareshteh Poorahangaryan, Bahman Zanj, Ali Karami 145 29 Toni Mäkinen, Pasi Pertilä, Supersonic Bullet State Estimation Using Particle Filtering Pasi Auranen 150 30 An Efficient Branch And Bound Method For Face Recognition Yuzuko Utsumi, Yuta Matsumoto, Yoshio Iwai 156 31 A. H. Ismail, M. H. Marhaban A ... May 18th, 2020

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Dilated Convolutional Network With Iterative Optimization For Continuous Sign Language Recognition Junfu Pu, Wengang Zhou, Houqiang Li CAS Key Laboratory Of Technology In Geo-spatial Information Processing And Application System, EEIS Department, University Of Science And Technology Of China Pjh@mail.ustc.edu.cn, Zhwg@ustc.edu.cn, Lihq@ustc.edu.cn Abstract This Paper Presents A Novel Deep ... Feb 9th, 2020

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Real-Time American Sign Language Recognition Using Desk And Wearable Computer Based Video Thad Starner, Joshua Weaver, And Alex Pentland Room E15-383, The Media Laboratory Massachusetts Institute Of Technology 20 Ames Street, Cambridge MA 02139 Thad,joshw,sandy@media.mit.edu Abstract We Present Two Real-time Hidden Markov Model-based Systems For Recognizing Sentence-level Continuous Amer ... Mar 4th, 2020

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Al. [2] Used HMMs For Continuous American Sign Language Recognition. The Vocabulary Contains 40 Signs And The Sentence Structure To Be Recognized Was Constrained To Personal Pronoun, Verb, Noun, And Adjective. In 1997, Vogler And Metaxas [3] Proposed A System For Both Isolated And Continuous ASL Recognition Sentences With A 53-sign Vocabulary. In A Later Study [4] The Same Authors Attacked ... Jul 5th, 2020

### **Sign Language Decoder Using Convolutional Neural Networks**

Implementation Of An American Sign Language (ASL) Decoder Based On A Convolutional Neural Network. In This Paper, We Present A Method For Using Deep Convolutional Neural Networks To Classify Images Of The Letters In American Sign Language. Key Words: OpenCV, Machine Learning, Convolution Neural Networks, Deep Learning, Gesture Recognition, Sign Language Recognition. 1. INTRODUCTION Sign ... Nov 29th, 2020

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Contextualized Recognition Of Fingerspelled Words Campbell McDermid Lynn Finton Alexis Chasney Rochester Institute Of Technology National Technical Institute For The Deaf ABSTRACT Fingerspelling, An Aspect Of American Sign Language, Is Difficult For Second Language English-speaking Adults To Learn (Bahleda, 1998), Yet Mastery Is Required By Professional ASL-English Interpreters. This Study ... Jul 5th, 2020

### **AN IMPROVED TOOL FOR PRACTICING FINGERSPELLING RECOGNITION**

Word. A Person Fluent In ASL Can Produce Fingerspelled Words At A Rate Of Four Characters Per Second. In Contrast, The Fingerspelling Recognition Rate For People Learning Sign Language Is Far ... Nov 18th, 2020

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The Common Theme Is Seeing And Understanding People Which Includes Head And Hand Tracking, Sign Language Recognition, Expression Recognition, Non-verbal Communication And More General Activity Recognition. A Common Approach Being Weakly Supervised Learning Using Many Techniques Inspired From The Data Mining Community. 2 FROM MUTUAL INFORMATION TO TRACKING Our Interest In Mutual Information ... Sep 27th, 2020

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Keywords: American Sign Language, Dataset, RGBD Video. 1. Introduction Recently, Progress In Sensor Technologies As Well As Research On Algorithmic Techniques Supported By Artificial Intelligence Methods Has Enabled The Development Of Sign Language Recognition Systems (Gkigkelos And Goumopoulos, 2017). Moreover, The Availability Of Red- Green-blue-depth (RGBD) Sensors (Microsoft, 2014, 2020 ... May 11th, 2020

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Sign Language Recognition E.g. [9], Robotic And Computer Interaction E.g. [20],

Computer Games E.g. [7] And Virtual Reality Applications E.g. [34]. Relatively New Application Of HCI Elements Are Biometric Technologies Aimed To Recognise A Person Based On Their Physiological Or Behavioural Characteristic. A Survey Of Behavioural Biometrics Is Provided In [35] Where Authors Examine Types Of ... Aug 22th, 2020

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### **Automatic Alignment Of HamNoSys Subunits For Continuous ...**

Automatic Alignment Of HamNoSys Subunits For Continuous Sign Language Recognition Oscar Koller<sup>1,2</sup>, Hermann Ney<sup>1</sup> And Richard Bowden<sup>2</sup> 1 Human Language Technology And Pattern Recognition Group - RWTH Aachen University, Germany 2 Centre For Vision Speech And Signal Processing - University Of Surrey, Guildford, UK Fkoller,neyg@cs.rwth-aachen.de, R.bowden@surrey.ac.uk Jul 19th, 2020

### **A Sociolinguistic Profile Of The Peruvian Deaf Community**

Studies Of Sociolinguistics And Sign Language Variation Can Also Contribute To And Empower The Local Deaf Communities In Several Ways As Explained By Lucas Et Al.: Recognition Of Sign Languages As Real Languages, Legitimization Of Sign Languages, Which Can Lead To More Appropriate Inclusion In Educational Policies; And The Improvement Of Interpreting And Vocational Services (2002). This ... May 5th, 2020

### **Erstellung Eines Systematischen Wortschatzes Für Die ...**

D-80799 Munich, Germany Ankeh@phonetik.uni-muenchen.de ABSTRACT Development Of A Systematic Vocabulary For Sign Language Recognition A Database Including Sign Language Gestures, Itemised According To Sublexical Constituents (handshape, Orientation Of Palm, Location, Movement, Oral Elements, Non-manual Elements) Will Be Sep 10th, 2020

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Object Recognition [56], Speech And Handwriting Recognition [19], And Even Real Time Sign-language Translation [2]. Despite The Intuition That Deeper Architectures Would Yield Better Results Than The Then More Commonly Used Shallow Ones, Empirical Tests With Deep Networks Had Found Similar Or Even Worse Results When Compared To Networks With Only One Or Two Layers [57] (for More Details, See ... Jul 23th, 2020

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Digital Image Processing Applied On Static Sign Language Recognition System

Betsy Villa<sup>1\*</sup>, Valeria Valencia<sup>2</sup>, Julie Berrio<sup>3</sup> ... Design And Implementation Process Of A Static Hand Gesture Recognition System Is Shown, For This Task We Used Matlab As Computing Environment And The Scale Invariant Features Transform (SIFT) Method To Extract Characteristics From The Image. Our System Allows The ... Jan 7th, 2020

### **Arabic Sign Language (ArSL) Recognition System Using HMM**

Works On Sign Language Recognition Including [1, 2, 3]. Kudos [4] Reported A System Using Power Gloves To Recognize A Set Of 95 Isolated Australian Sign Languages With 80% Accuracy. Grobel And Assan [5] Used HMM To Recognize Isolated Signs With 91.3% Accuracy Out Of A 262-sign Vocabulary. They Extracted 2D Features From Video Recordings Of Signers Wearing With A Single Color Video Camera As ... Apr 20th, 2020

### **Video-Based Finger Spelling Recognition For Ethiopian Sign ...**

Ethiopian Sign Language (ESL) Is The Sign Language Of The Deaf In Ethiopia. ESL Is Complete In Both Signing And Finger Spelling. Signing Includes The Conceptual Sign Expressions Which Are Dominantly Applied To Convey Meaning In ESL (Masresha Tadesse, 2010) And Finger Spellings Are Alphabets Used To Spell Scientific Words And Names. However, The Ethiopian Sign Language Is Not Well Studied And ... Oct 8th, 2020

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Sign Language Alphabet. However, The Following Factors Pose Some Challenges To This System: 1. The Conditions Of The Illumination In The Place Where This System Is Used Has To Be Considered, As It Plays An Important Role In The Accuracy Of The Recognition. 2. It Has To Be Made Sure That The Hand Gesture Is At An Ideal Distance From The Camera 3. The Came Ra Must Capture The Hand Upto The Wrist ... May 3th, 2020

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ETHIOPIAN SIGN LANGUAGE ABADI TSEGAY 1, DR. KUMUDHA RAIMOND 2 Addis Ababa University, Addis Ababa Institute Of Technology Addis Ababa, Ethiopia E-mail: Abadi\_tsegay@hotmail.com 1 , Kumudharaimond@yahoo.co.in 2 ABSTRACT A Lot Of Effort Has Been Invested In Developing Alphabet Recognition And Continuous Sign Language Translation Systems For Many Sign Languages Around The World. In This Regard ... Jan 14th, 2020

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Paper—ANFIS Based Methodology For Sign Language Recognition And Translating To Number In Kan ... System Once This Technique Developed Analysis Has Been Restricted To Tiny Scale Sys-tems In A Position Of Recognizing A Minimum Set Of A Symptom Language. Christopher Lee And Yangsheng Xu [3] Developed A Glovebased Gesture Recognition System That - Was Able To Acknowledge Fourteen Of The Letters ... Jul 12th, 2020

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American Sign Language (ASL) Alphabet Refers To 26 Finger-spelled Letters Including 24 Static Ones And 2 Dynamic Ones 'J' And 'Z' [1]. Automatic Recognition Of These Signs Not Only Could Bring Benefits To The ASL Users, But Also Could Provide Solutions For Natural Human-computer/robot Interactions In A Wide Range Of Applications Such As Using Gesture Control Devices. To Tackle This ... Jul 17th, 2020

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### **Fingertip Detection For Hand Pose Recognition**

The Sign Language Recognition With Both Local And Global Motion [11]. Many Methods For Hand Pose Detection Use Skin Color-based Hand Detection And Take Geometrical Features For Hand Modeling. The Block Diagram As Shown In Fig. 1 Summarizes The Proposed Algorithms, In Which A Novel Method Is Proposed For Fingertip Detection And Finger Type Recognition. These Two Parameters Can Be Effectively ... Jun 29th, 2020

### **SIGN LANGUAGE RECOGNITION FOR DEAF AND DUMB PEOPLE USING ...**

SIGN LANGUAGE RECOGNITION FOR DEAF AND DUMB PEOPLE USING ANDROID ENVIRONMENT A. Gayathri<sup>1</sup>, Dr.A. Sasi Kumar<sup>2</sup> 1PG Scholar, Dept.of IT, School Of Computing Sciences 2Associate Professor, Dept.of IT, School Of Computing Sciences Vels University, Chennai, India. ABSTRACT This Paper Helps The Deaf And Dumb Person To Communicate With The Rest Of The World Using Sign Language. Communication Plays An ... Sep 19th, 2020

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