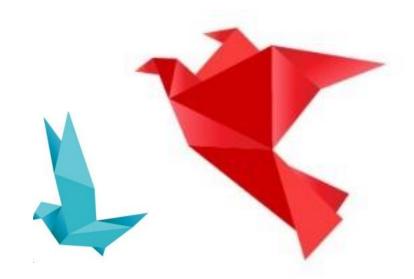


l'umanesimo che innova

Emanuele Frontoni

InterPARES TRUST AI



From Natural Language Processing to **Appearance Based** approaches: challenges and opportunities for archival science



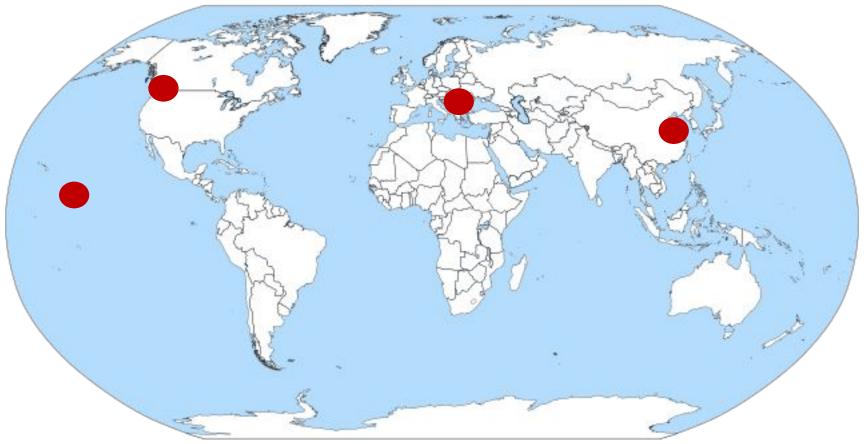


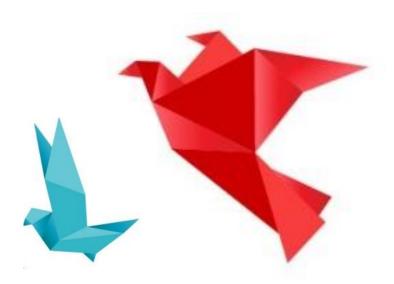
UNIVERSITÀ Politecnica Delle Marche



l'umanesimo che innova







APPEARANCE & CREATIVITY COMPUTER VISION & DEEP LEARNING









Am a Lower his ner the of any first ware falle of all a nort one repeting at a belief and a first and be and a some medicle a liber marrie the and a second war a first of the second war and a second war a first a second war and a second war a second w Anna lande so norther of a latter for many of the same one represent the solution with be will be a million of the same of the the of a relate of managella mer a the of early of markella a managella mer of the analy and a markel and a markel and the analy analy and the analy and the analy and the analy and the e abastice of manically more of many of the solve negative a mandally more to us long the and the not set not use of printer of parented nort que not the solve to be a former of parented nort que not the long the of the solve of the solve and the solve of the solve and many prime and about a stand with ab at a baile nulle par of understand understand understand has an used for a stand and the for a mile lower a militable to In face former and a stand for a mile lower a mile former and the part of a standard of a standard of a standard of a standard for a mile lower a mile former and the part of a standard of a and manifesteriore and ab post means alle of a para a par a a set deare monatore of it & clore analle of a different for a mulei longe alle and any former office manifester and all mine as more a mulei longe alle and any former office manifester and all of the provide and any of the original are former of the second of the provide and any of the original are second of a more and all of the provide and any of the origination of the provide and any of the second of the provide and and all of the provide and any of the origination of the provide and any of the provide and any of the origination of the provide and and any of the origination of the provide and any of the provide any of the p

pond se for que la a bater our d'in reaconted à long abapte moner se que not site à habann a contra as man manie ut p nist uillone quant de long de part of the spine quine pont a bater de long the contra pont and the contra pont and the second for the second fo print print a serbit à butet und un comment lie corner undere solis garrar à enfit la camoline tions fance en fale a ponil alle prate que as plat est as plan all and smaller de la ponil alle prate que as plat est as plan all and smaller d'es que à un t'aple monderni alle marcant per la conferior de foncie fonde que avail and sonderni for alle service de monderni per a mondern to en apres no no go halon ab des questo in faite la fuera verte a polar de por avado infaite de monafter se pla formar ca ats me per sonto of har on an ana per fait plaches facen fait de ple au ab infait à inque cauere prasa ut trà noam refair me deba sapai aple menarie Cr infair ancore presa in nichen merere offariant under star paque d'us la none is a firmejelute buduers malarine Ce unhe uender uchen a cocchin of alle monder i lacen

stablumber ou conind a com this was anabalia fi oper fact

morit fal exermante misfinde los

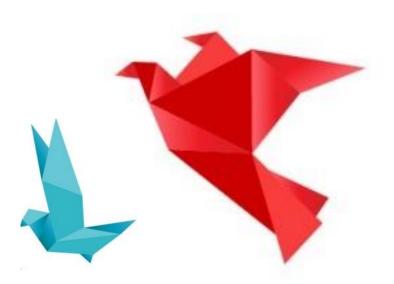
porro a parer p' nontro tes and a the source pare al parer al parer a parer pa

las a savels antabelle a amezoni a belaste I hactor uenter as fut fuer requeer a aple whit at more fue a oil sume en

The about mfault 2 ers carete marri has of the pressmerson 2 ers stabelle énerge fue estimer de an has eur adeofor mand man popuert at in Aber dograne a sunfred gering of sunne a satalle gerin of stabelle a ber on affather a lover genuter of belaute & est merogauert a value car ad cofu mans man power

The Martin bennom Scurte - marner grathe gof ling or pagan Lanfräerg or buzalen alter gor curtor ortaci gararula arralle & paule arralle baftar Johannom & pozer leone 1 Se vallaform andre seltin 6 so too theat a nuter of briefs post orabia coptus abeds of radiet's belista nepora mea ou posto lorero quere fuo introques

to that plande mid sette Ident un abia polite solt a arristo nepo a of quanto magnified a alter solt gerne infante file ofta are alter habierte levima crate foreglier fierie facere habie of face along er part suder landauerer ad parte proviare d'en por pour au prite prise recepte l'e Fi plumfante desflort infracture faie habent faie herb ei pla eur unde pofacrit e findere this bennon en que une pora à lebre quequações dez, boy le e aple ale de a pre de una pre de una prese parese passe habes fais course lauezoli fili fue air in laudante udios, op monari à lugior - Sutar este a polar out forullore the bennone Searce in pena lang dear . sande de unad a pli ablavamire es prese de recipe habene our en landaines udies ab ella uilland afte emert suppli praes a dare habene pla ear emprione es moñario - ide affe bals marrie - inde polo at fit willow if the sat line inperia live o use



LEARNING FROM EXAMPLES COMPUTER VISION & DEEP LEARNING



ImageNet consists of 14,197,122 images organized into 21,841 subcategories.





330K images (>200K labeled) - 1.5 million object instances - 80 object categories

The Multimedia AI Dataset MISSION

RESEARCH OUR RECORDS VETERANS' SERVICE RECORDS EDUCATOR RESOURCES VISIT US AMERICA'S FOUNDING DOCUMENTS Open Government > Available Datasets from the National Archives

Open Government

Open Gov Plan Developers High Value Datasets Archives.gov Redesign Plain Writing

Digital Gov Strategy Implementation Overview Agency

Milestones Open Data Policy

Available Datasets from the National Archives

Blogs · Bookmark/Share · Contact Us

Search

Search Archives.gov

National Archives Datasets

National Archives Catalog

NATIONAL ARCHIVES

This dataset contains the archival descriptions and authority records from the National Archives Catalog, including the URLs for digital copies of records and data from citizen archivist contributions.

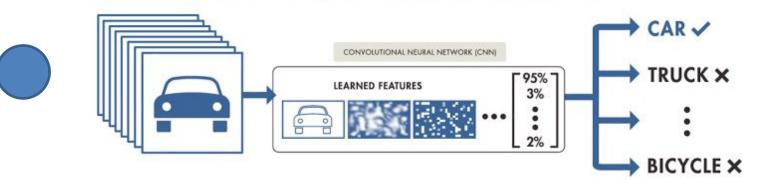
• 1950 Census

This dataset includes the metadata index, the population schedules and other forms, Indian Reservation Population Schedules, the enumeration district maps, and the enumeration district descriptions for the 1950 Census records.

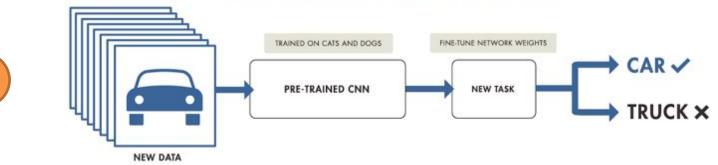
• 1940 Census

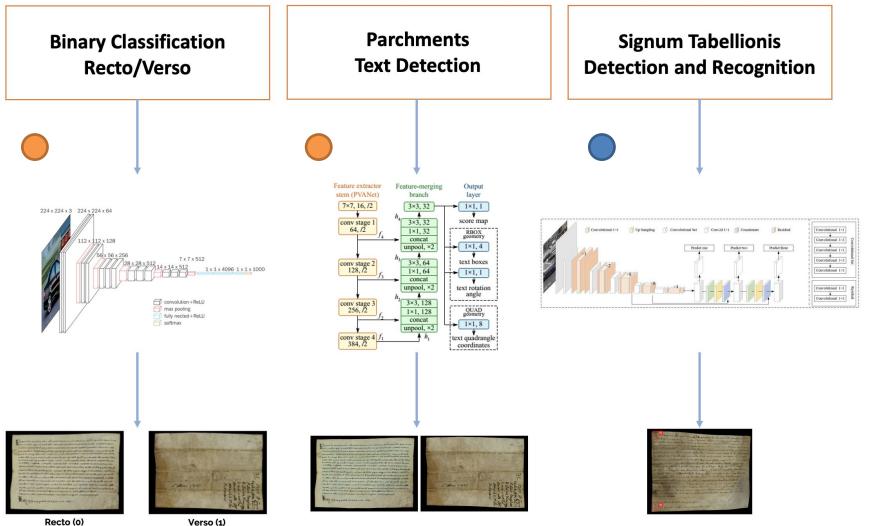
This dataset contains the the metadata index, the population schedules, the enumeration district

TRAINING FROM SCRATCH



TRANSFER LEARNING





Verso (1)

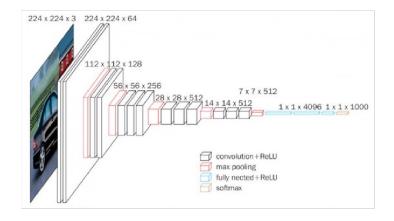
VGG16 DEEP NEURAL NETWORK



Recto

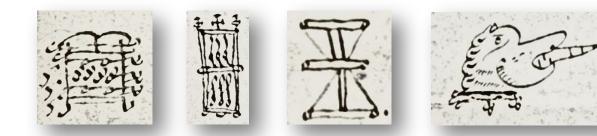






Simonyan, K., & Zisserman, A. (2014). Very deep convolutional networks for large-scale image recognition. arXiv preprint arXiv:1409.1556.

Notarial sign detection



ue neir culto auror orangero filo quarodano die nite ouder Tadio gunerstano - purchast multiment and the postion - man one or in Assir. Sona love all us official orche or salten for appine unland o Lover her for sconen Some mesule colorance She paraon Sever ille Same que ber twee a Friends-que las por traditionadante par sur porto quarte par po Same que des oues no and to be mosel males liber Sugar more cured. Sto the at by at it to exclus to farm at one within the person of his light our firs one willy due-patie to by adder alinder land av pland vom dit soon des volter liber cours suider wicher michaelle since of aver er polos un andre me porte astanan ile met d'huerel un Same Secolis mound isp sulle was des under Sto a per welle whe per abless ato no Toluserer alter de ipher vie he ar hard No un person ton mother to fup Stine folunce of the Son - the mathe for mathelle at some storte to Tolustie the Sa he we light limb St. aber we were " our numer. you were show it and marrow Sto facut cale on the alter a spar ilic outre for fame. Site Some queste what file ping at last win will' for michaels planit for the Si the Die vendra less power. Cornere of person ut the ste due reporte bar solo Var icher winer her supelle . In Slove somethies chever Straner Proving un un unupp rolation n mane a Sur and all part out not part and the ballets and the part of the set In the other parts I was allow a fit with parts

an day more winner suched has and oder soft

T Conv. Layers 1x1x512 3x3x1024 3x3x1024 Conv. Layers 3x3x1024 3x3x1024 Conv. Layer 7x7x64+2 Conv. Layer 3x3x192 Conv. Loyers 1x1x256 3x3x512 Conn. Lover Conv. Layers Conn. Layer 1x1x128 364 Maxpool Layer 2x2-+2 axpool Layer 2x2-5-2 3x3x256 1x1x256 1x1x512 3x3x1024 3x3x512 3x3x1024 3x3x1024+2 Maxpool Layer Maxpool Layer 2x2-5-2 2+2-+2

Redmon, J., Divvala, S., Girshick, R., & Farhadi, A. (2016). You only look once: Unified, real-time object detection. In *Proceedings of the IEEE conference on computer vision and pattern recognition* (pp. 779-788).

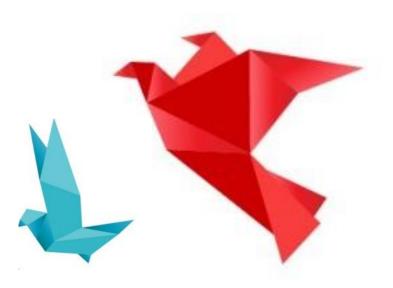
signum 0.64

man une mest auf the second germe fiptime the Hos febr intic quederns. Please illes him & nois filt b. plagen mantes mant

signum 0.60

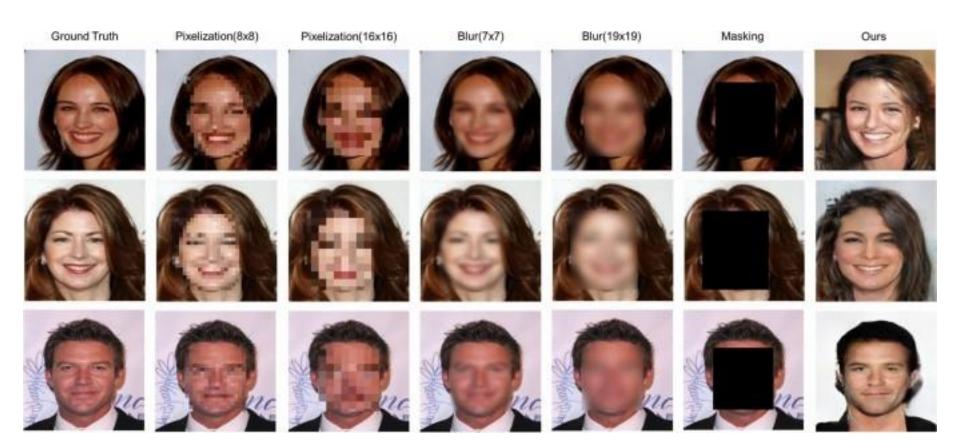
bell monthice, ing allow lagance within

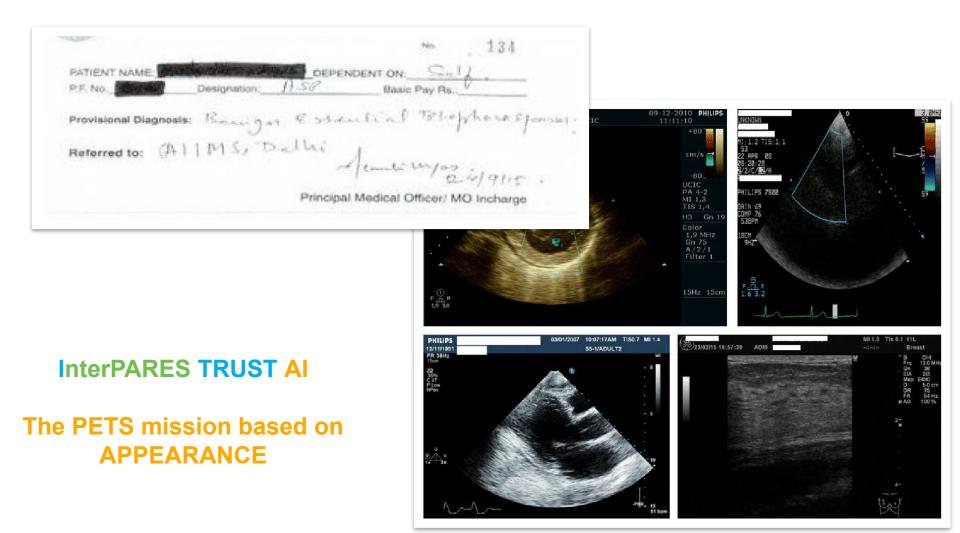
or understal notal as under this offerst

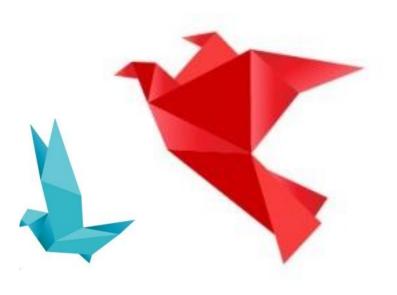


AI & PRIVACY (PETS)



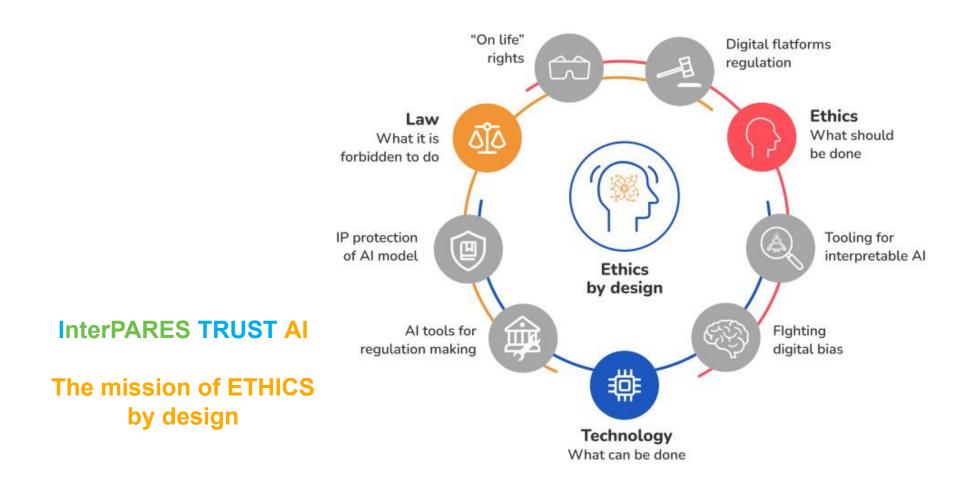






AI ETHIC





Bias is all of our responsibility!

It reduces the potential of AI for business and society by encouraging mistrust and producing distorted results.

Business and organizational leaders need to ensure that the AI systems they use improve on human decision-making, and they have a responsibility to encourage progress on research and standards that will reduce bias in AI.

AI, BIAS & ERROS TRUST ON HUMANS

